PUBLIC

Part 1 of 4

OFFICIAL COPY

Sep 26 2023

INFORMATION SHEET

PRESIDING: Commissioner Duffley, Presiding; Chair Mitchell, and Commissioners Brown-Bland, Clodfelter, Hughes, McKissick, Jr., and Kemerait
PLACE: Raleigh, NC
DATE: Wednesday, August 30, 2023
TIME: 2:00 p.m. to 4:58 p.m.
DOCKET NO.: E-7, Sub 1134 and E-7 Sub 1276
COMPANY: Duke Energy Carolinas, LLC
DESCRIPTION: In the Matter of Duke Energy Carolinas, LLC Application for Approval to Construct a 402 MW Natural Gas-Fired Combustion Turbine Electric Generating Facility in Lincoln County, and for an Application for Adjustment of Rates and Charges Applicable to Electric Service in North Carolina and for Performance-Based Regulation

VOLUME NUMBER: 11

APPEARANCES
See attached

WITNESSES
See attached

EXHIBITS

None attached

REPORTED BY: Joann Bunze	TRANSCRIPT PAGES: 160
TRANSCRIBED BY: Joann Bunze	PREFILED PAGES 114
DATE FILED: September 7, 2023	TOTAL PAGES 274

OFFICIAL COPY
Sep 26 2023

PLACE: Dobbs Building, Raleigh, North Carolina

DATE: Wednesday, August 30, 2023

TIME: 2:00 p.m. - 4:58 p.m.

DOCKET NO: E-7, Sub 1134 and E-7, Sub 1276

BEFORE: Commissioner Kimberly W. Duffley, Presiding
Chair Charlotte A. Mitchell
Commissioner ToNola D. Brown-Bland
Commissioner Daniel G. Clodfelter
Commissioner Jeffrey A. Hughes
Commissioner Floyd B. McKissick, Jr.
Commissioner Karen M. Kemerait

IN THE MATTER OF:

Duke Energy Carolinas, LLC

Application for Approval to Construct a 402 MW Natural Gas-Fired Combustion Turbine Electric Generating Facility in Lincoln County

and

Application For Adjustment of Rates and Charges Applicable to Electric Service in North Carolina and for Performance-Based Regulation

VOLUME 11

OFFICIAL COPY
Sep 26 2023

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

FOR DUKE ENERGY CAROLINAS, LLC:

Jack E. Jirak, Esq., Deputy General Counsel
Duke Energy Corporation
410 South Wilmington Street, NCRH 20
Raleigh, North Carolina 27602

Jason A. Higginbotham, Esq.
Associate General Counsel
Duke Energy Corporation
525 South Tryon Street/ECA3
Charlotte, North Carolina 28202

James H. Jeffries, IV, Esq., Partner
McGuireWoods LLP
201 North Tryon Street, Suite 3000
Charlotte, North Carolina 28202

Andrea Kells, Esq.
Kristin M. Athens, Esq.
McGuireWoods LLP
501 Fayetteville Street, Suite 500
Raleigh, North Carolina 27601

OFFICIAL COPY
Sep 26 2023

A P P E A R A N C E S (Cont'd.):

Brandon F. Marzo, Esq., Partner
Melissa Oellerich Butler, Esq., Associate
Joshua Warren Combs, Esq., Associate
Troutman Pepper Hamilton Sanders LLP
600 Peachtree Street Northeast, Suite 3000
Atlanta, Georgia 30308

Kiran H. Mehta, Esq., Partner
Molly McIntosh Jagannathan, Esq., Partner
Melinda L. McGrath, Esq., Partner
Troutman Pepper Hamilton Sanders LLP
301 South College Street, Suite 3400
Charlotte, North Carolina 28202

FOR CAROLINA UTILITY CUSTOMERS ASSOCIATION:
Marcus W. Trathen, Esq.
Matthew Tynan, Esq.
Christopher B. Dodd, Esq.
Brooks Pierce McLendon Humphrey & Leonard, LLP
150 Fayetteville Street, Suite 1700
Raleigh, North Carolina 27601

OFFICIAL COPY
Sep 26 2023

A P P E A R A N C E S (Cont'd.):

FOR CAROLINA INDUSTRIAL GROUP FOR FAIR UTILITY RATES III:

Christina D. Cress, Esq., Partner
Douglas D.C. Conant, Esq., Associate
Bailey & Dixon, LLP
434 Fayetteville Street, Suite 2500
Raleigh, North Carolina 27601

Chris S. Edwards, Esq., Partner
Ward and Smith, P.A.
127 Racine Drive
Wilmington, North Carolina 28403

FOR NORTH CAROLINA SUSTAINABLE ENERGY ASSOCIATION:

Ethan Blumenthal, Esq., Regulatory Counsel
Cassie Gavin, Esq., Director of Policy
4800 Six Forks Road, Suite 300
Raleigh, North Carolina 27609

OFFICIAL COPY
Sep 26 2023

A P P E A R A N C E S (Cont'd.):

HAYWOOD EMC, BLUE RIDGE EMC, PIEDMONT EMC, and RUTHERFORD EMC:

Christina D. Cress, Esq., Partner
Bailey & Dixon, LLP
434 Fayetteville Street, Suite 2500
Raleigh, North Carolina 27601

Chris S. Edwards, Esq., Partner
Ward and Smith, P.A.
127 Racine Drive
Wilmington, North Carolina 28403

FOR NORTH CAROLINA LEAGUE OF MUNICIPALITIES:

Ben Snowden, Esq., Partner
Fox Rothschild LLP
434 Fayetteville Street, Suite 2800
Raleigh, North Carolina 27601

FOR THE COMMERCIAL GROUP:

Alan Jenkins, Esq.
Jenkins at Law, LLC
2950 Yellowtail Avenue
Marathon, Florida 33050

OFFICIAL COPY
Sep 26 2023

A P P E A R A N C E S (Cont'd.):

FOR THE SIERRA CLUB:
Catherine Cralle Jones, Esq.
Andrea Bonvecchio, Esq.
Law Offices of F. Bryan Brice, Jr.
130 South Salisbury Street
Raleigh, North Carolina 27601

FOR NORTH CAROLINA JUSTICE CENTER, NORTH CAROLINA HOUSING COALITION, NATURAL RESOURCES DEFENSE COUNCIL, SOUTHERN ALLIANCE FOR CLEAN ENERGY, AND VOTE SOLAR:
David L. Neal, Esq., Senior Attorney
Munashe Magarira, Esq., Staff Attorney
Thomas Gooding, Esq., Associate Attorney
Southern Environmental Law Center
601 West Rosemary Street, Suite 220
Chapel Hill, North Carolina 27516

FOR NC WARN:
Matthew D. Quinn, Esq., Partner
Lewis & Roberts, PLLC
Post Office Box 17529
Raleigh, North Carolina 27619

OFFICIAL COPY
Sep 26 2023

A P P E A R A N C E S (Cont'd.):

FOR THE KROGER CO. AND HARRIS TEETER, LLC:

Kurt J. Boehm, Esq.

Jody Kyler Cohn, Esq.

Boehm, Kurtz & Lowry

36 East 7th Street, Suite 1510

Cincinnati, Ohio 45202

Ben Royster, Esq.

Royster & Royster, PLLC

851 Marshall Street

Mount Airy, North Carolina 27030

FOR ANDALE, LLC:

Marcus W. Trathen, Esq.

Brooks Pierce McLendon Humphrey & Leonard, LLP

150 Fayetteville Street, Suite 1700

Raleigh, North Carolina 27601

OFFICIAL COPY
Sep 26 2023

A P P E A R A N C E S (Cont'd.)
FOR THE USING AND CONSUMING PUBLIC PURSUANT TO
N.C.G.S. § 62-20 AND ON BEHALF OF THE STATE AND ITS
CITIZENS PURSUANT TO N.C.G.S. § 114-2(8):
Tirrill Moore, Esq., Assistant Attorney General
Derrick C. Mertz, Esq.,
Special Deputy Attorney General
North Carolina Department of Justice
114 West Edenton Street
Raleigh, North Carolina 27603

FOR THE USING AND CONSUMING PUBLIC:
Lucy E. Edmondson, Esq., Chief Counsel
Robert B. Josey, Esq.
Nadia L. Luhr, Esq.
Anne M. Keyworth, Esq.
William S.F. Freeman, Esq.
William E.H. Creech, Esq.
Thomas Felling, Esq.
Public Staff - North Carolina Utilities Commission
4326 Mail Service Center
Raleigh, North Carolina 27699-4300

OFFICIAL COPY
Sep 26 2023

TABLE OF CONTENTS

EXAMINATIONS

PANEL OF JONATHAN L. BYRD AND MORGAN BEVERIDGE	PAGE
Cross Examination By Mr. Quinn.....	14
Cross Examination By Mr. Felling.....	35
Redirect Examination By Ms. McIntosh JAGANNATHAN	50
Examination By Commissioner Duffley.....	58
PANEL OF Conitsha B. Barnes, Lesley G. Quick, and Bradley G. Harris	**PAGE**
Direct Examination By Mr. Combs.....	68
Prefiled Settlement Testimony of the Affordability Panel	71
Prefiled Summary of the Settlement Testimony of the Affordability Panel	79
Cross Examination By Ms. Cress.....	81
Cross Examination By Mr. Trathen.....	98
Examination By Commissioner McKissick.....	101
BRADLEY G. HARRIS	**PAGE**
Direct Examination By Mr. Combs.....	106
Prefiled Direct Testimony of Bradley G. Harris	109
Prefiled Summary of the Direct Testimony of Bradley G. Harris ...	125
Cross Examination By Ms. Cress.....	127

OFFICIAL COPY
Sep 26 2023

PANEL OF LAURA A. BATEMAN AND PHILLIP O. STILLMAN	PAGE
Direct Examination By Ms. McGrath.....	132
Prefiled Direct Testimony of the PBR Policy ... Panel	138
Prefiled Supplemental Testimony of the PBR .... Policy Panel	190
Prefiled Settlement Testimony of the PBR ..... Policy Panel	197
Prefiled Settlement Testimony Supporting ..... the TCA Stipulation of Laura A. Bateman	212
Prefiled Settlement Testimony Supporting ..... the Amended Revenue Requirement Stipulation of Laura A. Bateman	215
Prefiled Summary of the Direct and ..... Supplemental Testimony of the PBR Policy Panel	222
Prefiled Summary of the Settlement ..... Testimony of the PBR Policy Panel	224
Prefiled Summary of the Settlement ..... Testimony Supporting the TCA Stipulation of Laura A. Bateman	226
Prefiled Summary of the Settlement ..... Testimony Supporting the Amended Revenue Requirement Stipulation of Laura A. Bateman	227
Cross Examination By Ms. Cress.....	228
Cross Examination By Mr. Trathen.....	233
Cross Examination By Mr. Magarira.....	251

OFFICIAL COPY
Sep 26 2023

E X H I B I T S

	IDENTIFIED/ADMITTED
Public Staff Beveridge Byrd ..... Direct, Settlement, and Rebuttal Cross Exhibit 1	49/67
Byrd Exhibits 1 through 7.....	-/66
Beveridge Direct Exhibits 1 ..... through 10, with Revised Exhibit 4	-/66
Beveridge Supplemental Direct ..... Exhibits 1 and 2	-/66
Beveridge Settlement Exhibit 4, ... 4-1, 4-2, and 4-3	-/66
Blue Ridge EMC, et al. Byrd ..... Beveridge Direct, Rebuttal, and Settlement Cross Exhibit 1	-/66
CUCA Beveridge Byrd Direct, ... Rebuttal, and Settlement Cross Exhibits Number 1 and 2	-/67
CIGFUR III Affordability Panel ..... Settlement Cross Exhibit 1	88/105
CIGFUR III Affordability Panel ..... Settlement Cross Exhibit 2	91/105
CIGFUR III Affordability Panel ..... Settlement Cross Exhibit 3	94/105
CIGFUR III Affordability Panel ..... Settlement Cross Exhibit 4	97/105
Harris Exhibits 1 through 6.....	108/131
PBR Policy Panel Exhibits 1 ..... through 4	137/-
PBR Policy Panel Supplemental ..... Exhibit 3	137/-

PBR Policy Panel Settlement 137/-
Exhibits 1, 3, and 4

CIGFUR III PIMs Panel Direct and ... 229/-
Settlement Cross Exhibit 1

CIGFUR III PIMs Panel Direct and ... 229/-
Settlement Cross Exhibit 2

OFFICIAL COPY
Sep 26 2023

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8-28-23 DOCKET NO.: E-7, SUB 1276

ATTORNEY NAME and TITLE: JACK E. JIRAK, DEPUTY GENERAL COUNSEL

FIRM NAME: DUKE ENERGY

ADDRESS: 410 S. WILMINGTON ST.

CITY: RALEIGH STATE: NC ZIP CODE: 27602

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X COMPLAINANT: ___ INTERVENOR: ___

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive **CONFIDENTIAL** transcripts and/or exhibits:

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

Email: JACK.JIRAK@DUKE-ENERGY.COM

SIGNATURE: _____

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 6/21/2021 DOCKET NO.: E-7 Sub 1276

ATTORNEY NAME and TITLE: Jason Higginbotham

Associate General Counsel

FIRM NAME: Duke Energy

ADDRESS:

CITY: STATE: ZIP CODE:

APPEARANCE ON BEHALF OF: Duke Energy Carolinas LLC

APPLICANT: X COMPLAINANT: ___ INTERVENOR: ___

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: jason.higginbotham@duke-energy.com

SIGNATURE:

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8-28-23 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: JAMES H. JEFFRIES IV, PARTNER

FIRM NAME: MCGUIREWOODS LLP

ADDRESS: 201 N. TRYON STREET, SUITE 3000

CITY: CHARLOTTE STATE: NC ZIP CODE: 28202

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X COMPLAINANT: ___ INTERVENOR: ___

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: JJEFFRIES@MCGUIREWOODS.COM

SIGNATURE: [signature]

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/23/2023 **DOCKET NO.:** E-7 Sub 1276

ATTORNEY NAME and TITLE: Andrea R. Kells, Counsel

FIRM NAME: McGuireWoods, LLP

ADDRESS: 501 Fayetteville St. Suite 500

CITY: Raleigh **STATE:** NC **ZIP CODE:** 27601

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X **COMPLAINANT:** ___ **INTERVENOR:** ___

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: akells@mcguirewoods.com

SIGNATURE: Andrea R. Kells Digitally signed by Andrea R. Kells Date: 2023.08.23 09:43:52 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 28, 2023 **DOCKET NO.:** E-7 Sub 1276

ATTORNEY NAME and TITLE: Kristin M. Athens, Esquire

FIRM NAME: McGuireWoods LLP

ADDRESS: 501 Fayetteville St. Suite 500

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

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: x **COMPLAINANT:** ___ **INTERVENOR:** ___

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: kathens@mcguirewoods.com

SIGNATURE: Kristin M. Athens Digitally signed by Kristin M. Athens Date: 2023.08.22 11:24:07 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 22, 2023 **DOCKET NO.:** E-7, Sub 1276

ATTORNEY NAME and TITLE: Brandon F. Marzo, Partner

FIRM NAME: Troutman Pepper Hamilton and Sanders LLP

ADDRESS: 600 Peachtree Street NE, Suite 3000

CITY: Atlanta **STATE:** GA **ZIP CODE:** 30308

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X **COMPLAINANT:** ___ **INTERVENOR:** ___

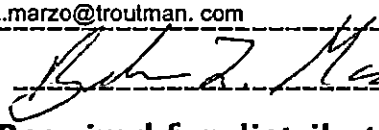
PROTESTANT: ___ **RESPONDENT:** ___ **DEFENDANT:** ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: brandon.marzo@troutman. com

SIGNATURE: 

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/22/23 **DOCKET NO.:** E-7, Sub 1276

ATTORNEY NAME and TITLE: Melissa Oellerich Butler, Associate

FIRM NAME: Troutman Pepper Hamilton Sanders LLP

ADDRESS: 600 Peachtreet St. NE Suite 3000

CITY: Atlanta **STATE:** GA **ZIP CODE:** 30308

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X **COMPLAINANT:** ___ **INTERVENOR:** ___

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: melissa.butler2@duke-energy.com

SIGNATURE: Melissa Oellerich Butler Digitally signed by Melissa Oellerich Butler Date: 2023.08.22 09:57:11 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/22/23 **DOCKET NO.:** E-7, Sub 1276

ATTORNEY NAME and TITLE: Joshua Warren Combs, Associate Attorney

FIRM NAME: Troutman Pepper Hamilton Sanders LLP

ADDRESS: 600 Peachtree Street, NE, Suite 3000

CITY: Atlanta **STATE:** GA **ZIP CODE:** 30308

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X **COMPLAINANT:** ___ **INTERVENOR:** ___

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: Josh.Combs@troutman.com

SIGNATURE: _____

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/22/2023 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: Kiran H. Mehta, Partner

FIRM NAME: Troutman Pepper Hamilton Sanders LLP

ADDRESS: 301 S. College St., Suite 3400

CITY: Charlotte STATE: NC ZIP CODE: 28202

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X COMPLAINANT: ___ INTERVENOR: ___

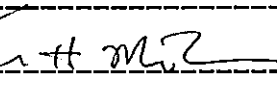
PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: kiran.mehta@troutman.com

SIGNATURE: 

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 22, 2023 **DOCKET NO.:** Docket No. E-7, Sub 1276

ATTORNEY NAME and TITLE: Molly McIntosh Jagannathan, Partner

FIRM NAME: Troutman Pepper Hamilton Sanders LLP

ADDRESS: 301 South College Street, Suite 3400

CITY: Charlotte **STATE:** NC **ZIP CODE:** 28202

APPEARANCE ON BEHALF OF: Duke Energy Carolinas, LLC

APPLICANT: X **COMPLAINANT:** ___ **INTERVENOR:** ___

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: molly.jagannathan@troutman.com

SIGNATURE: Molly M. Jagannathan

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 23, 2023 **DOCKET NO.:** E-7, SUB 1276

ATTORNEY NAME and TITLE: MELINDA L. MCGRATH, PARTNER

FIRM NAME: TROUTMAN PEPPER HAMILTON SANDERS LLP

ADDRESS: 301 S. COLLEGE STREET; 34TH FLOOR

CITY: CHARLOTTE **STATE:** NC **ZIP CODE:** 28202

APPEARANCE ON BEHALF OF: DUKE ENERGY CAROLINAS, LLC

APPLICANT: XX **COMPLAINANT:** ___ **INTERVENOR:** ___

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive **CONFIDENTIAL** transcripts and/or exhibits:

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

Email: Mindy.McGrath@troutman.com

SIGNATURE: MMcGrath

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8-28-23 **DOCKET NO.:** E-7, Sub 1276

ATTORNEY NAME and TITLE: Marcus W. Trathen

FIRM NAME: Brooks Pierce McLendon Humphrey & Leonard, LLP

ADDRESS: 1700 Wells Fargo Capitol Center, 150 Fayetteville St.

CITY: Raleigh **STATE:** NC **ZIP CODE:** 27601

APPEARANCE ON BEHALF OF: CUCA

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** X

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

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

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

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

Email: mtrathen@brookspierce.com

SIGNATURE: /s/ Marcus Trathen

(Required for distribution of CONFIDENTIAL transcript)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/23/2023 **DOCKET NO.:** E-7 Sub 1276

ATTORNEY NAME and TITLE: Matthew B. Tynan

FIRM NAME: Brooks Pierce LLP

ADDRESS: P.O. Box 26000

CITY: Greensboro **STATE:** NC **ZIP CODE:** 27420

APPEARANCE ON BEHALF OF: Carolina Utility Customers Association

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** x

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive **CONFIDENTIAL** transcripts and/or exhibits:

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

Email: mtynan@brookspierce.com

SIGNATURE: Matthew B Tynan

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8-28-23 **DOCKET NO.:** E-7, Sub 1276

ATTORNEY NAME and TITLE: Christopher B. Dodd

FIRM NAME: Brooks Pierce McLendon Humphrey & Leonard, LLP

ADDRESS: 115 N. 3rd St #301

CITY: Wilmington **STATE:** NC **ZIP CODE:** 28401

APPEARANCE ON BEHALF OF: CUCA

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** X

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: cdodd@brookspierce.com

SIGNATURE: /s/ Christopher Dodd

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 22, 2023 **DOCKET NO.:** E-7, Sub 1276; E-7, Sub 1134

ATTORNEY NAME and TITLE: Christina Cress, Partner; Douglas "D.C." Conant, Associate (Bailey & Dixon, LLP)

Chris S. Edwards, Partner (Ward & Smith, LLP)

FIRM NAME: Bailey & Dixon, LLP (CDC & DC); Ward & Smith, LLP (CSE)

ADDRESS: 434 Fayetteville St., Ste. 2500 (Bailey & Dixon); 127 Racine Drive (Ward & Smith)

CITY: Raleigh (B&D); Wilmington (W&S) **STATE:** NC **ZIP CODE:** 27601 (B&D); 28403 (W&S)

APPEARANCE ON BEHALF OF: CIGFUR III, Haywood EMC, Blue Ridge EMC, Piedmont EMC, and Rutherford EMC

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** X

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: ccress@bdixon.com

SIGNATURE: Christina D. Cress Digitally signed by Christina D. Cress Date: 2023.08.22 13:33:10 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/28/23 **DOCKET NO.:** E-7 Sub 1276

ATTORNEY NAME and TITLE: Ethan Blumenthal, Regulatory Counsel

FIRM NAME: North Carolina Sustainable Energy Association

ADDRESS: 4800 Six Forks Rd., Suite 300

CITY: Raleigh **STATE:** NC **ZIP CODE:** 27609

APPEARANCE ON BEHALF OF: North Carolina Sustainable Energy Association

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** X

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: ethan@energync.org

SIGNATURE: Ethan Blumenthal Digitally signed by Ethan Blumenthal Date: 2023.08.21 21:17:22 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8-28-23 **DOCKET NO.:** E-7, Sub 1276

ATTORNEY NAME and TITLE: Cassie Gavin, Director of Policy

FIRM NAME: NCSEA

ADDRESS: 4800 Six Forks Rd, Suite 300

CITY: Raleigh **STATE:** NC **ZIP CODE:** 27609

APPEARANCE ON BEHALF OF: NCSEA

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** X

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive **CONFIDENTIAL** transcripts and/or exhibits:

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

Email: cassie@energync.org

SIGNATURE: /s/ by KTM: Cassie Gavin

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/28/23 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: Ben Snowden, Partner

FIRM NAME: Fox Rothschild LLP

ADDRESS: 434 Fayetteville St., Suite 2800

CITY: Raleigh STATE: NC ZIP CODE: 27601

APPEARANCE ON BEHALF OF: North Carolina League of Municipalities

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: x

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: bsnowden@foxrothschild.com

SIGNATURE: BSnowden Digitally signed by BSnowden Date: 2023.04.27 16:52:04 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/25/2023 **DOCKET NO.:** E-7 Sub 1276

ATTORNEY NAME and TITLE:

Alan Jenkins

FIRM NAME: Jenkins at Law, LLC

ADDRESS: 2950 Yellowtail Ave

CITY: Marathon **STATE:** FL **ZIP CODE:** 33050

APPEARANCE ON BEHALF OF: The Commercial Group

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** x

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: aj@jenkinsatlaw.com

SIGNATURE:

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 22, 2023 DOCKET NO.: E-7, SUb 1276

ATTORNEY NAME and TITLE: Catherine Cralle Jones

FIRM NAME: Law Offices of F. Bryan Brice, Jr.

ADDRESS: 130 S. Salisbury Street

CITY: Raleigh STATE: NC ZIP CODE: 27601

APPEARANCE ON BEHALF OF: Sierra Club

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: cathy@attybryanbrice.com

SIGNATURE: Catherine Cralle Jones

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 22, 2023 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: Andrea C. Bonvecchio

FIRM NAME: Law Offices of F. Bryan Brice, Jr.

ADDRESS: 130 S. Salisbury Street

CITY: Raleigh STATE: NC ZIP CODE: 27601

APPEARANCE ON BEHALF OF: Sierra Club

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: andrea@attybryanbrice.com

SIGNATURE:

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 28, 2023 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: David L. Neal, Senior Attorney

FIRM NAME: Southern Environmental Law Center

ADDRESS: 601 West Rosemary Street, Suite 220

CITY: Chapel Hill STATE: North Carolina ZIP CODE: 27516

APPEARANCE ON BEHALF OF: North Carolina Justice Center, North Carolina Housing Coalition, Southern Alliance for Clean Energy, Natural Resources Defense Council, and Vote Solar (NCJC, et al.)

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: dneal@selcnc.org

SIGNATURE: [signature] 2023.08.23 12:33:09 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 08/28/2023 **DOCKET NO.:** E-7, Sub 1276

ATTORNEY NAME and TITLE: Munaashe Magarira, Staff Attorney

FIRM NAME: Southern Environmental Law Center

ADDRESS: 601 W Rosemary Street, Suite 220

CITY: Chapel Hill **STATE:** NC **ZIP CODE:** 27516

APPEARANCE ON BEHALF OF: North Carolina Justice Center, North Carolina Housing Coalition, Natural Resources Defense Council, Southern Alliance for Clean Energy, and Vote Solar

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** x

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: mmagarira@selcnc.org

SIGNATURE: Digitally signed by Munaashe Magarira Date: 2023.08.22 09:28:18 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 05/04/2023 **DOCKET NO.:** E-2 Sub 1300

ATTORNEY NAME and TITLE: Thomas Gooding, Associate Attorney

FIRM NAME: Southern Environmental Law Center

ADDRESS: 601 W. Rosemary Street, Suite 220

CITY: Chapel Hill **STATE:** NC **ZIP CODE:** 27516

APPEARANCE ON BEHALF OF: North Carolina Justice Center, North Carolina Housing Coalition, Natural Resources Defense Council, Southern Alliance for Clean Energy, and Vote Solar

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** X

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: tgooding@selcnc.org

SIGNATURE: Thomas Gooding Digitally signed by Thomas Gooding Date: 2023.04.29 12:46:36 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 08/22/2023 DOCKET NO.: E-7, Sub 1276

ATTORNEY NAME and TITLE: Matthew D. Quinn, Partner

FIRM NAME: Lewis & Roberts, PLLC

ADDRESS: P. O. Box 17529

CITY: Raleigh STATE: NC ZIP CODE: 27619

APPEARANCE ON BEHALF OF: NC WARN

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: _____

SIGNATURE: _____

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8-28-2023 DOCKET NO.: E-7 Sub 1276

ATTORNEY NAME and TITLE: Kurt Boehm

FIRM NAME: Boehm, Kurtz & Lowry

ADDRESS: 36 East Seventh Street, Suite 1510

CITY: Cincinnati STATE: Ohio ZIP CODE: 45202

APPEARANCE ON BEHALF OF: Kroger Co. and Harris Teeter

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: kboehm@bkllawfirm.com

SIGNATURE:

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 25, 2023 DOCKET NO.: E-7 Sub 1276

ATTORNEY NAME and TITLE: Jody Kyler Cohn, Esq.

FIRM NAME: Boehm, Kurtz & Lowry

ADDRESS: 36 East 7th Street, Suite 1510

CITY: Cincinnati STATE: Ohio ZIP CODE: 45202

APPEARANCE ON BEHALF OF: The Kroger Company

APPLICANT: ___ COMPLAINANT: ___ INTERVENOR: X

PROTESTANT: ___ RESPONDENT: ___ DEFENDANT: ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: _____

SIGNATURE: _____

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 08/25/2023 **DOCKET NO.:** E-2 Sub1300

ATTORNEY NAME and TITLE: Benjamin M. Royster, Attorney

FIRM NAME: Royster & Royster PLLC

ADDRESS: 851 Marshall St.

CITY: Mt. Airy **STATE:** NC **ZIP CODE:** 27030

APPEARANCE ON BEHALF OF: Kroger Co. and Harris Teeter

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** x

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: _____

SIGNATURE: _____

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8-28-23 **DOCKET NO.:** E-7, Sub 1276

ATTORNEY NAME and TITLE: Marcus W. Trathen

FIRM NAME: Brooks Pierce McLendon Humphrey & Leonard, LLP

ADDRESS: 1700 Wells Fargo Capitol Center, 150 Fayetteville St.

CITY: Raleigh **STATE:** NC **ZIP CODE:** 27601

APPEARANCE ON BEHALF OF: Andale, LLC

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** X

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

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

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

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

Email: mtrathen@brookspierce.com

SIGNATURE: /s/ Marcus Trathen

(Required for distribution of CONFIDENTIAL transcript)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: 8/28/2023 **DOCKET NO.:** E-7, Sub 1276

ATTORNEY NAME and TITLE: Tirrill Moore

Assistant Attorney General

FIRM NAME: North Carolina Attorney General's Office

ADDRESS: 114 West Edenton Street

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

APPEARANCE ON BEHALF OF: The using and consuming public; the State and its citizens

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** X

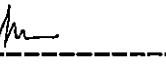
PROTESTANT: ___ **RESPONDENT:** ___ **DEFENDANT:** ___

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: temoore@ncdoj.gov

SIGNATURE: 

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION

APPEARANCE SLIP

DATE: August 28, 2023 **DOCKET NO.:** E-7, Sub 1276

ATTORNEY NAME and TITLE: Derrick C. Mertz, Special Deputy Attorney General;

FIRM NAME: North Carolina Department of Justice

ADDRESS: 114 W. Edenton Steet

CITY: Raleigh **STATE:** NC **ZIP CODE:** 27603

APPEARANCE ON BEHALF OF: The using and consuming public pursuant to N.C.G.S. sec. 62-20, and on behalf of the State of North Carolina and its citizens pursuant to N.C.G.S. sec. 114-2(8)

APPLICANT: ___ **COMPLAINANT:** ___ **INTERVENOR:** X

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

Non-confidential transcripts are located on the Commission's website. To view and/or print transcripts, go to https://www.ncuc.net/, hover over the Dockets tab, 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.

ONLY fill out this portion if you have signed an NDA to receive CONFIDENTIAL transcripts and/or exhibits:

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

Email: dmertz@ncdoj.gov

SIGNATURE: Derrick Mertz Digitally signed by Derrick Mertz Date: 2023.08.23 15:26:03 -04'00'

(Signature Required for distribution of CONFIDENTIAL information)

NORTH CAROLINA UTILITIES COMMISSION
PUBLIC STAFF - APPEARANCE SLIP

DATE August 28, 2023 DOCKET #: E-7, Sub 1276

PUBLIC STAFF ATTORNEY Lucy E. Edmondson; Robert B. Josey; Nadia L. Luhr; Thomas J. Felling; William E. H. Creech; William S.F. Freeman; Anne M. Keyworth

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

ACCOUNTING

CONSUMER SERVICES
COMMUNICATIONS
ENERGY

ECONOMICS
LEGAL lucy.edmondson@psncuc.nc.gov; robert.josey@psncuc.nc.gov; nadia.luhr@psncuc.nc.gov; thomas.felling@psncuc.nc.gov; zeke.creech@psncuc.nc.gov; william.freeman@psncuc.nc.gov; anne.keyworth@psncuc.nc.gov

TRANSPORTATION
WATER

Non-confidential transcripts are located on the Commission's website. To view and/or print, please access https://www.ncuc.net/.

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

/s/ Lucy E. Edmondson

/s/ Robert B. Josey

/s/ Nadia L. Luhr

/s/ Thomas J. Felling

/s/ William E. H. Creech

/s/ William Freeman /s/ Anne M. Keyworth

I/A

OFFICIAL COPY
Sep 26 2023
OFFICIAL COPY
May 12 2023

PLACE: Dobbs Building, Raleigh, North Carolina

DATE: Tuesday, May 9, 2023

TIME: 9:40 a.m. - 12:46 p.m.

DOCKET NO: E-2, Sub 1300

BEFORE: Chair Charlotte A. Mitchell, Presiding
Commissioner ToNola D. Brown-Bland
Commissioner Daniel G. Clodfelter
Commissioner Kimberly W. Duffley
Commissioner Jeffrey A. Hughes
Commissioner Floyd B. McKissick, Jr.
Commissioner Karen M. Kemerait

IN THE MATTER OF:
Application of Duke Energy Progress, LLC,
for Adjustment of Rates and Charges Applicable
to Electric Service in North Carolina and
for Performance-Based Regulation

VOLUME 12

Noteworthy
Reporting Services, LLC

OFFICIAL COPY
Sep 26 2023
OFFICIAL COPY
May 12 2023

that, over time, that is cost effective and a benefit to the state of North Carolina and to all electric customers because it lowers energy rates. So it's a little different.

Q. Duke does not have a program in place to help municipal customers reduce their lighting burdens, does it?

A. (By Ms. Reed) Not that I'm aware of.

Q. Okay. Thank you. Those are all my questions. Appreciate it.

A. (By Ms. Reed) Thank you.

CHAIR MITCHELL: NCJC?

MR. MAGARIRA: No cross from NCJC, et al.

CHAIR MITCHELL: Public Staff, you're up.

CROSS-EXAMINATION BY MS. LUHR:

Q. Good morning. Nadia Luhr with the Public Staff. I will be asking questions about the proposed rider NSC, so I believe my questions will be directed to Mr. Byrd.

So, Mr. Byrd under rider NSC as proposed, a customer's net metered system must be five megawatts or less, even if its contract demand is greater than five megawatts; is that right?

A. (By Mr. Byrd) That's correct.

Q. Would you agree that some large industrial customers in DEP's system are directly connected to transmission circuits?

A. (By Mr. Byrd) We do have transmission served customers. Correct.

OFFICIAL COPY
Sep 26 2023
OFFICIAL COPY
May 12 2023

Q. And transmission circuits generally allow for the interconnection of greater amounts of generation than distribution circuits; is that right?

A. (By Mr. Byrd) I'm not an interconnection expert, but -- so -- so I'll just leave it at that. I'm not an interconnection expert.

Q. So for any given circuit, whether it's a distribution circuit or a transmission circuit, understanding you're not an interconnection expert, is there a maximum capacity for distributed energy resources?

A. (By Mr. Byrd) I am not -- are you talking about a difference between distribution and transmission or --

Q. Well, so this question I'm just asking for any circuit. Is there a limit to how much capacity can be interconnected?

A. (By Mr. Byrd) So I would say that's determined by the interconnection study, which I'm not particularly familiar with, but I know that a new generation resource going on a circuit, distribution or transmission, has to go through that process.

And when there is a system that's greater than one megawatt, it's a more extensive interconnection process. There's, like, a cluster study involved. But I -- I'm not familiar with the details there, but I know it's a -- it's a very rigorous study when you get to those larger system sizes.

Q. And so that study is really looking at whether

OFFICIAL COPY
Sep 26 2023
OFFICIAL COPY
May 12 2023

interconnecting that resource would raise reliability concerns. Is that generally your understanding?

A. (By Mr. Byrd) Generally, yes. Impacts on other customers on that particular circuit and so forth.

Q. So if DEP were to find, based on one of those studies, that interconnecting a specific resource would raise reliability concerns, would DEP go ahead and interconnect that resource?

A. (By Mr. Byrd) I think you're getting outside of my knowledge a bit. I imagine there are some mitigations or investments that could be made relative to that and costs associated with an interconnection study where someone's putting on a system that's larger than a certain size. They would have to support those mitigations.

Q. And looking at your rebuttal testimony on Page 32, so here you respond to Public Staff Witness Nader's testimony about rider NSC and the five megawatt cap.

And beginning on Line 16, you explain that one of your concerns with removing the five megawatt cap is that large net metered systems require interconnection studies and present additional complexity because of the unpredictability of their output to grid in terms of overall size.

So I would ask you now -- I put a notebook -- it's on your left. That's the Public Staff's cross notebook. If you could turn to Exhibit 48, and that is Page 655 of the PDF.

OFFICIAL COPY
Sep 26 2023
OFFICIAL COPY
May 12 2023

MS. LUHR: And, Chair Mitchell, I would ask that this exhibit be marked as Public Staff Cross-Examination Byrd and Reed Direct and Rebuttal Exhibit 1.

CHAIR MITCHELL: Give me one minute to get there.

All right. And, Ms. Luhr, just making sure we're looking at the same document. It's a response to a data request.

MS. LUHR: That's right.

CHAIR MITCHELL: Dated January/February '23; January 27th and February 6th.

MS. LUHR: That's right.

CHAIR MITCHELL: So we will mark this document as requested by counsel.

(Public Staff Cross Reed and Byrd Direct and Rebuttal Exhibit 1 marked for identification.)

MS. LUHR: Thank you.

Q. So, Mr. Byrd, this is a Duke Energy Progress response to Public Staff data request 151-1; is that right?

A. (By Mr. Byrd) Yes.

Q. And on Page 3, which is actually Page 2 of Duke's response, the response states that -- and this is about halfway down that first paragraph -- "Large net metered systems present additional complexity because of the unpredictability of their output to the grid.

OFFICIAL COPY
Sep 26 2023
OFFICIAL COPY
May 12 2023

"For example, if a large customer consuming ten megawatts of net metered solar unexpectedly shut down, then the company would need to react to a sudden and unannounced influx of ten megawatts of generation."

So to be sure that I'm clear, the concern isn't that DEP won't be able to provide the customer with its contracted capacity. It's that the customer's own load would shut down unexpectedly and that the customer's generation would all of a sudden be sent to the grid all at once.

Is that right?

A. (By Mr. Byrd) That's right. Or if the customer had an outage week for a holiday or whatever, all of a sudden, you've got ten megawatts of solar coming into a -- to that particular portion of the grid. So it's very large. There's a lot of solar generation. So that's what we're referencing there.

It's just from an operational standpoint of having that swing in load where you have a customer that's consuming and all of a sudden I've got ten megawatts of production generation coming back onto the grid. That's what that's referencing.

Q. And so the interconnection studies you mentioned earlier, would those have looked at or accounted for that type of potential for backfeed to enter the system?

A. (By Mr. Byrd) As far as I know, that's what the interconnection study looks at. If you have a customer who's

OFFICIAL COPY
Sep 26 2023
OFFICIAL COPY
May 12 2023

installing solar generation, it's looking at all those potential variants where -- variances where that generation might be putting a significant amount back on the grid. That's right.

Q. And are you aware that large net metered systems typically incorporate a function or a technology that automatically prevents backfeed upon the tripping of a customer's load?

A. (By Mr. Byrd) I'm not familiar with the specifics of that technology, but I -- I imagine there are technologies like that that customers might employ for various reasons or as potential for a mitigation based on, you know, the study -- coming out of interconnection studies.

Q. Okay. Those are all my questions. Thank you.

CHAIR MITCHELL: Redirect?

MR. MARZO: Thank you, Chair Mitchell. Very briefly.

REDIRECT EXAMINATION BY MR. MARZO:

Q. Ms. Reed, could I direct you to your Exhibit No. 4? And I believe Ms. Cress yesterday was asking you to refer to this particular exhibit as part of Reed Exhibit 4, which is titled "North Carolina Retail Cost of Service at Proposed Revenue Requirements." Do you see that?

A. (By Ms. Reed) I do.

Q. Now, you were asked about the subsidy between rate classes, whether it's growing over year over year of MYRP.

OFFICIAL COPY
Sep 26 2023
OFFICIAL COPY
May 12 2023

EXAMINATION BY MS. LUHR:

Q. So, Mr. Byrd, in response to questions from Commissioner Kemerait and Chair Mitchell about the five megawatt limit in rider NSC, you discussed Schedule HP. You said that larger -- customers with larger systems can connect under Schedule HP.

Would you agree that some larger customers might prefer rider NSC or find it more attractive?

A. (By Mr. Byrd) I'm not sure. I think we've provided -- I think HP provides a very attractive opportunity for those large customers to put on large solar systems. So --

Q. Would you agree that some large customers might prefer a net metering arrangement?

A. (By Mr. Byrd) I -- large customers -- in the context of the non-res working group and the CRDS, one of the elements that we talked about was raising the cap. And so that's what the company has proposed in response to those discussions.

We proposed a number of changes to NSC. They're importantly linked to the demand charge structure changes that we proposed. But all of those changes in NSC, you know, reflect generally those discussions, including the increase to the cap.

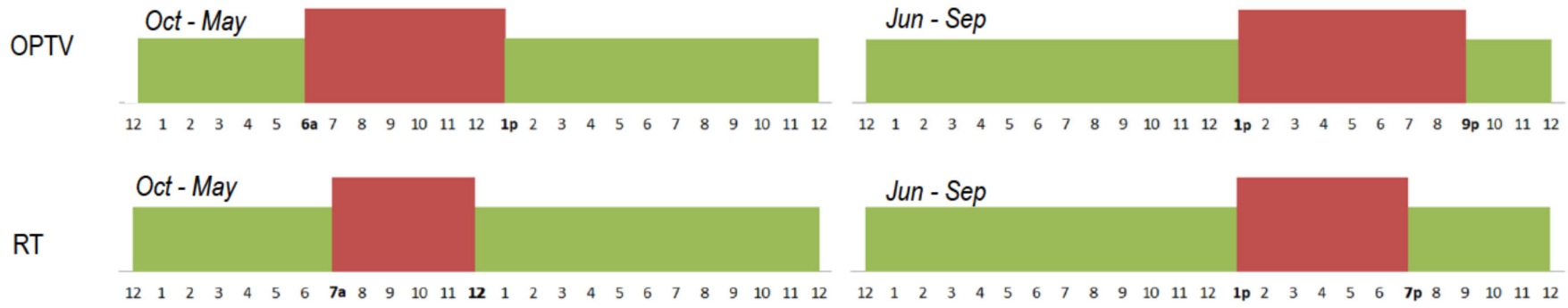
Q. Okay. Thank you.

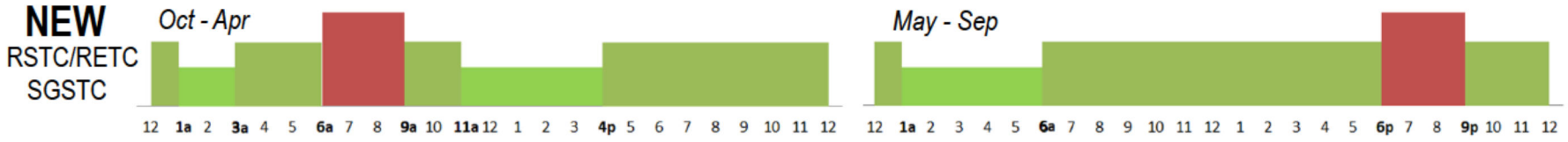
A. (By Mr. Byrd) Yeah.

CHAIR MITCHELL: Questions from Duke?

-/A

DEC-NC TOU Period Comparison



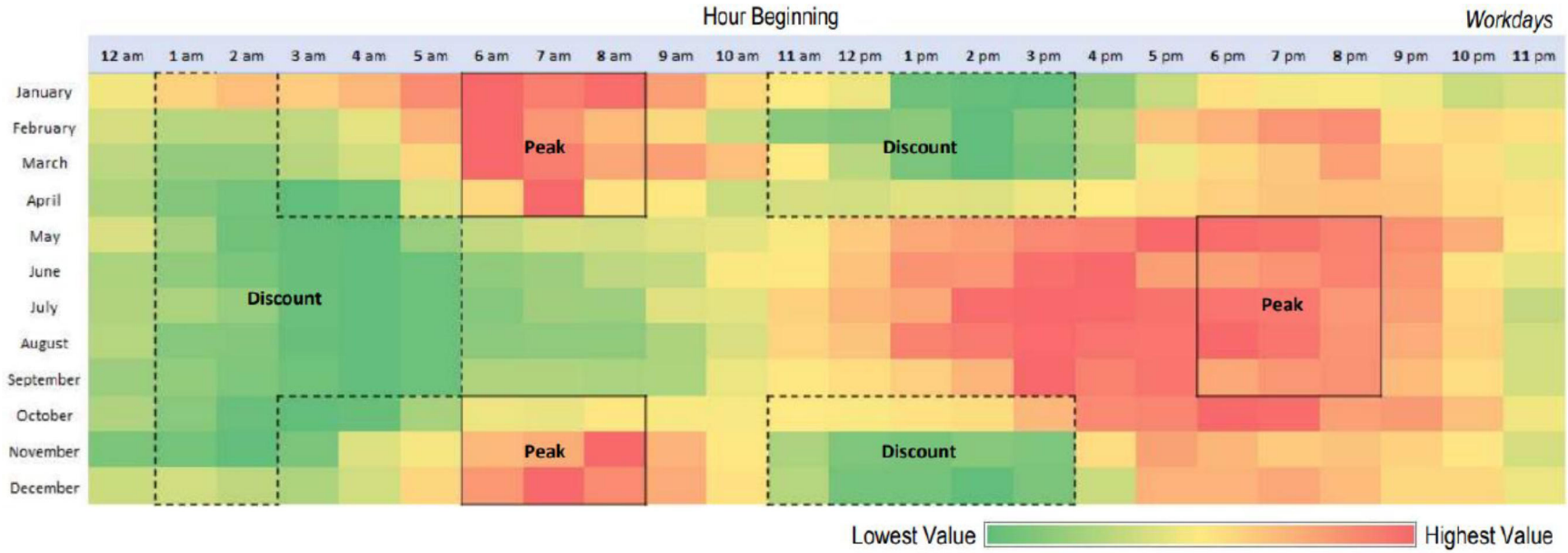


The Company proposes using the pricing periods for the recently approved Critical Peak Pricing rates across the Company's other major tariffs.

Sep 26 2023 OFFICIAL COPY

OFFICIAL COPY
Sep 26 2023

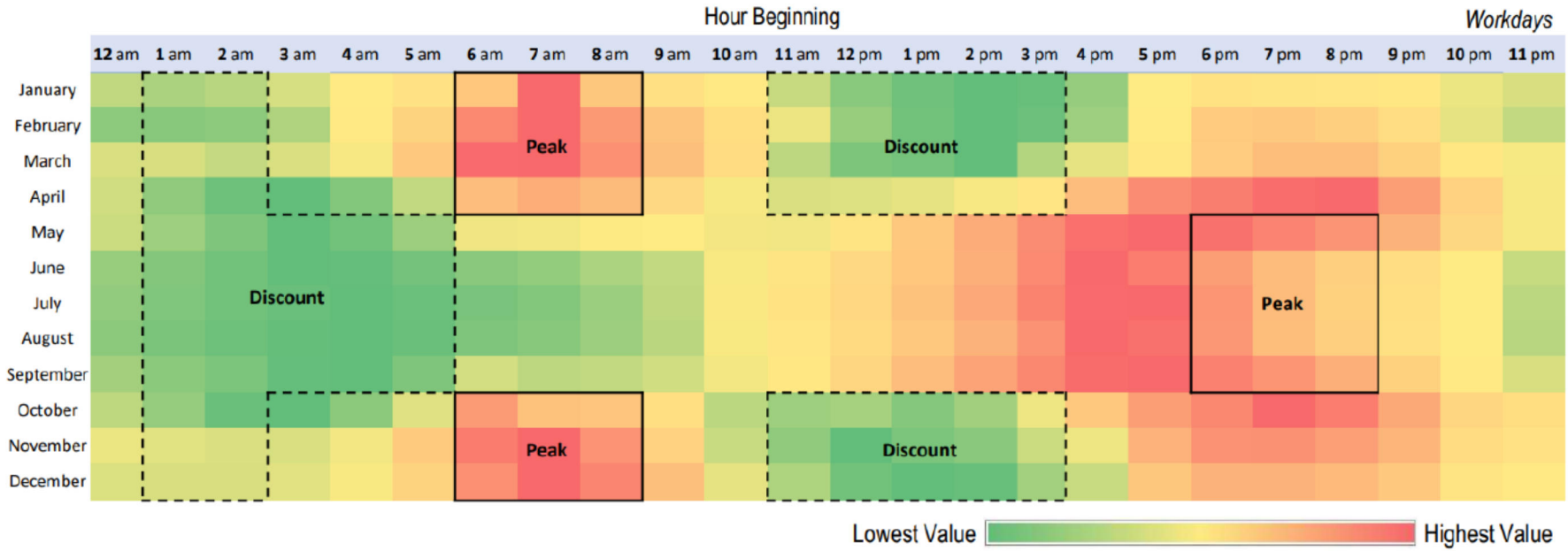
TOU Period and Marginal Energy Costs (2018-2020)



Historical view of actual Marginal Energy Cost aligns with discount and peak-periods

OFFICIAL COPY
Sep 26 2023

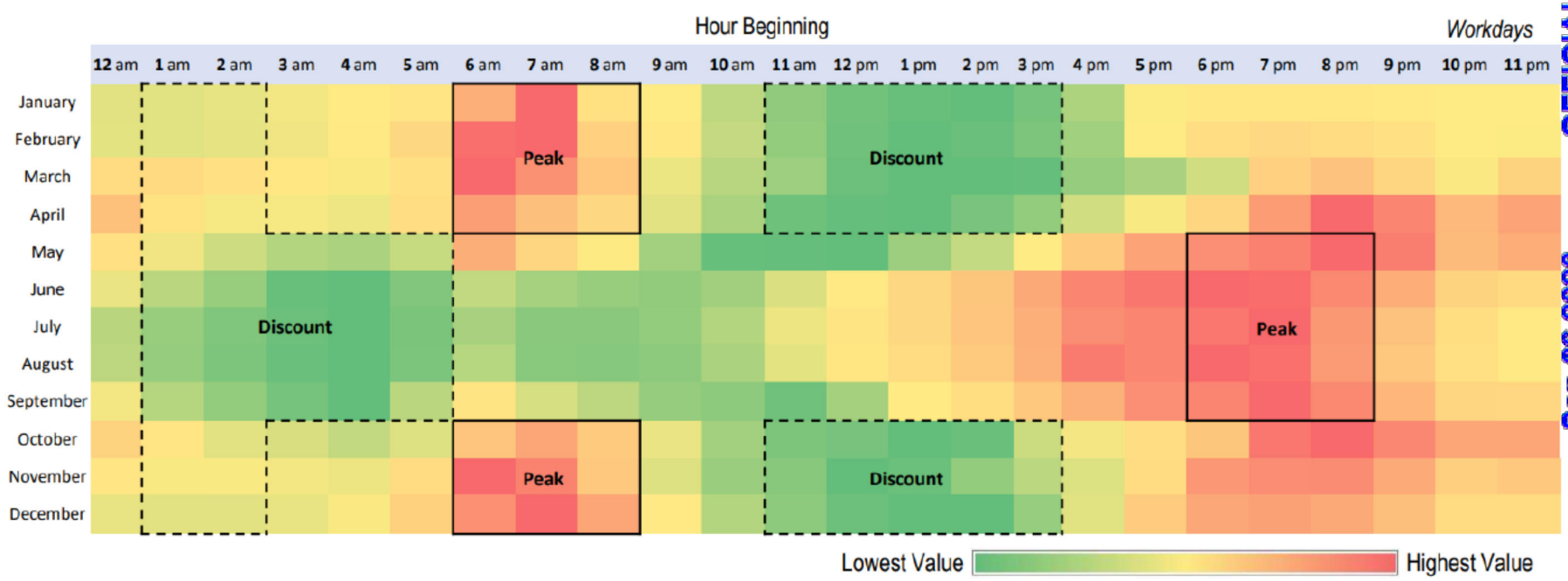
Cost Duration Model: **2021**



- Relative pricing on an intra-month basis, with hours compared to other hours in that same month only
- Cost Duration Model provides weighted-average view of cost of service
- Discount and winter peak periods align with costs in 2021-2030
- Summer peak shifts later in the evening from 2021-2030 due to increases in solar generation on the system
  - Compare with Byrd Exhibit 4 and Byrd Exhibit 5

OFFICIAL COPY
Sep 26 2023

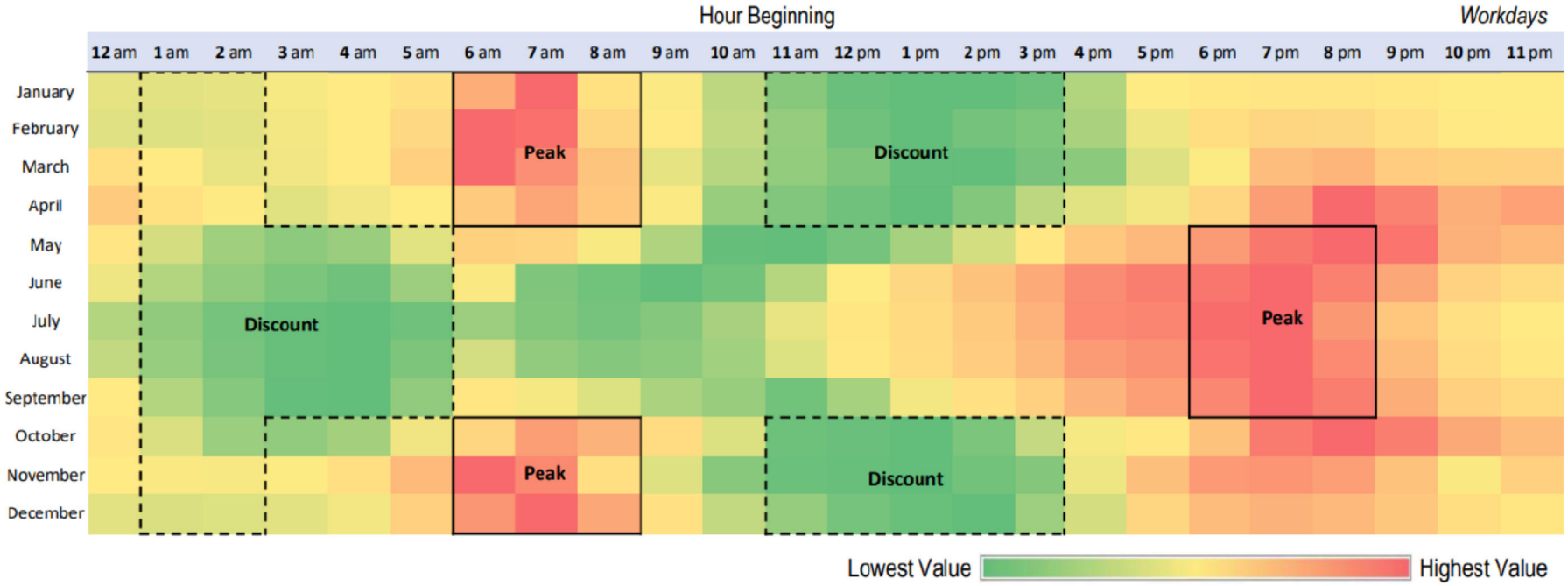
Cost Duration Model: **2026**



- Summer peak aligns with proposed peak period beyond 2025
- Winter mid-day costs decline on a relative basis, while costs remain low for overnight discount period

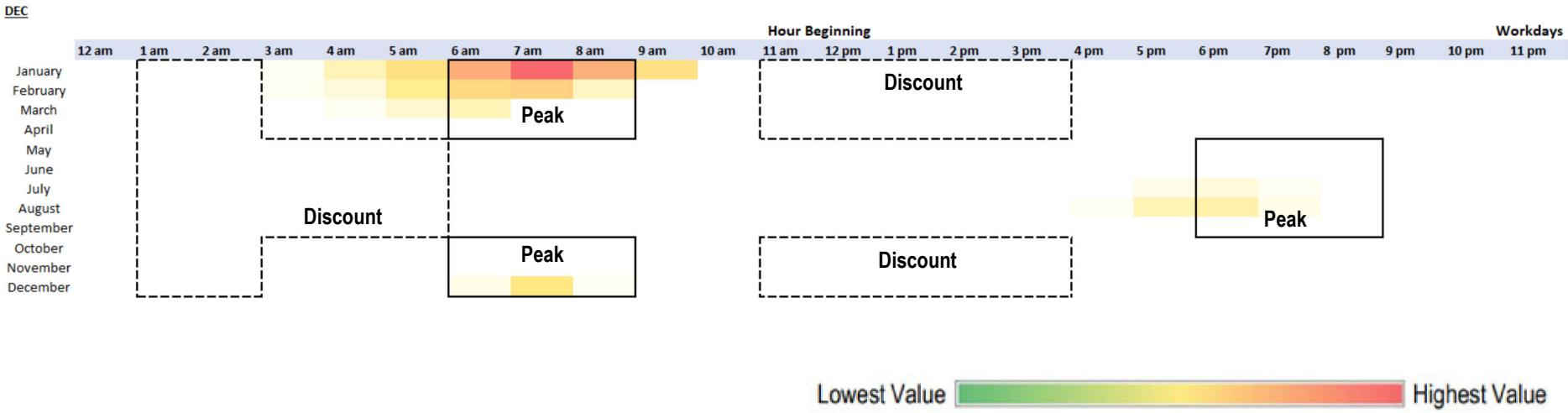
OFFICIAL COPY
Sep 26 2023

Cost Duration Model: **2030**



- Proposed peak period suitable for summer at least through 2030, ensuring durability of proposed TOU periods
- Mid-day costs in winter continue to drop in later years due to solar, on a relative basis
- Costs remain low for overnight discount period

Loss of Load Expectation: **2024**



- From 2020 Resource Adequacy Study

Sep 26 2023 OFFICIAL COPY

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

AVAILABILITY

Available to non-residential establishments with a minimum Contract Demand of 1,000 kW who qualify for service under the Company's rate schedules LGS, I, OPT-V or HLF.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available for a customer who qualifies for a residential schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, under special terms and conditions expressed in writing in the contract with the Customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in, or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

The Company may cancel this schedule at any time it deems necessary.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

BILL DETERMINATION

The monthly bill shall consist of the following charges:

I. Baseline Charge = sum of charges under the Customer's baseline rate schedule for their Customer Baseline Load
II. Administrative Charge = $200 per month
III. Energy Charge = sum of [(New Load kWh – Reduced Load kWh) x Hourly Energy Price]
IV. Capacity Charge = sum of [(New Load kWh – Reduced Load kWh) x Hourly Capacity Price]
V. Incentive Margin = 0.6 cents per kWh of Net New Load
VI. Incremental Demand Charge = $0.93 per kW of Incremental Demand for Distribution Service
= $0.93 per kW of Incremental Demand for Transmission Service

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Thirty-Seventh Revised Leaf No. 54
Superseding NC Thirty-Sixth Revised Leaf No. 54

OFFICIAL COPY
Sep 26 2023

SCHEDULE HP
HOURLY PRICING

DEFINITIONS

Customer Baseline Load (CBL): The CBL is one full year of hourly loads representing the Customer's energy use and load pattern on their baseline rate schedule. The CBL, as agreed to by the Customer and the Company, is defined in terms of average kWh per hour and max kW, by calendar month and by time-of-use (TOU) period, if applicable. The CBL is based on the Customer's historical usage, where available, and may be adjusted for load responsiveness as described in the Customer Baseline Load provisions below. The Customer is billed or credited at Hourly Prices for actual usage above or below their CBL.

New Load: New Load (kWh) is the amount by which actual kWh exceeds CBL kWh for any hour.

Reduced Load: Reduced Load (kWh) is the amount by which actual kWh is less than CBL kWh for any hour.

Net New Load: Net New Load (kWh) is equal to New Load kWh minus Reduced Load.

Incremental Demand: Incremental Demand (kW) is the amount by which actual kW (maximum 30-minute demand during the current billing month) exceeds CBL kW for the same billing month.

Contract Demand: The maximum demand to be delivered under this Schedule.

CUSTOMER BASELINE LOAD

Initial CBL Establishment:

An initial CBL will be established based on the Customer's load history in the previous 12 months, as determined by the Company and agreed to by the Customer. Adjustments or use of prior load history may be allowed in such cases as permanent removal or addition of equipment; installation of permanent energy efficiency measures; installation of parallel generation; nonrepresentative load patterns from extraordinary events; and plant shutdowns.

CBL Modifications:

CBL's are required to be re-established after four (4) years. Subsequent CBL's will be established using the same process and considerations as the initial CBL for existing customers, in addition to the Load Response Adjustment described below. Customers may request an update to their CBL no earlier than 12 months from their previous CBL. Customers served under Schedule HP before January 1, 2024 under continually effective agreements are not required to re-establish their CBL after four years unless and until the Customer requests an update of their CBL for any reason.

Load Response Adjustment:

For customers on a TOU baseline schedule, CBL modifications may include a Load Response Adjustment, at the Customer's option and requiring at least 48 months of representative load history on Schedule HP. The Adjustment reduces the Customer's CBL for demonstrated load reductions on days when Hourly Capacity Prices are in effect. The Company will calculate the Customer's weighted average Load Response Factor, as a percentage of load, over the previous 48 months. The Customer's On-Peak CBL (kW and kWh) will be reduced by the full Load Response Factor, and the Customer's Off-Peak CBL will be reduced by half of the Load Response Factor. CBL's for Discount hours will not be adjusted.

HOURLY PRICING

Each business day by 4:00 p.m., the Hourly Energy Prices and Hourly Capacity Prices (if applicable) for the 24 hours of the following day will be communicated to the Customer. Prices for weekends and Company holidays will be communicated to the Customer by 4:00 p m. on the last business day before the weekend or holiday. The Customer is responsible for notifying the company if he or she fails to receive the price information.

Hourly Energy Prices are based on the Company's forecasted marginal energy cost in each hour, which includes marginal fuel, variable operating and maintenance expenses, and an adjustment for delivery line losses.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

Hourly Capacity Prices are applicable when the daily forecast indicates a reserve ratio of 1.15 or less, calculated as available generation divided by system demand. The Hourly Capacity Price is zero for all other hours of the year. When applicable, the Hourly Capacity Price is a tiered rate based on the forecasted reserve ratio, reflecting the marginal cost of production capacity.

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider (applicable to Baseline Charge only)
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PROVISION FOR CUSTOMERS OPERATING IN PARALLEL WITH THE COMPANY

Customers served under this Schedule are permitted to operate power generating facilities in parallel with the Company, with a maximum operating capacity of 50 megawatts or less. If a customer has power generating facilities that are not governed by another parallel generation rate schedule or rider, the Standby Charge, Determination of Standby Charges, and Interconnection Facilities Charge provisions of Schedule PG shall be applicable to service under this Schedule. The Incremental Demand Charge does not apply to any incremental demand that is less than Standby Demand. In addition, customers operating a generator in parallel with the Company's system must comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

PROVISION FOR CUSTOMERS SERVED UNDER RIDER IS

For customers served under Rider IS, the Interruptible Contract Demand shall be the same as that contracted for during the baseline period. Further, the calculation of the Effective Interruptible Demand (EID) each month will exclude all energy consumed above the CBL. Hourly Capacity Prices will not apply to Reduced Load above Firm Contract Demand during the hours of interruption periods.

PROVISION FOR CUSTOMERS SERVED UNDER RIDER PS

For customers served under PowerShare Rider PS, the Maximum Curtailable Demand shall be the same as that contracted for during the baseline period, and the PowerShare Firm Demand must be at least 100 kW less than the CBL. Further, the calculation of the Effective Curtailable Demand (ECD) each month will exclude all energy consumed above the CBL. The PowerShare Curtailed Energy Credit will apply to only the load curtailed between the Firm Demand and the smaller of the Forecasted Demand and the CBL, provided the Forecasted Demand is greater than the Firm Demand. Hourly Energy Prices and Hourly Capacity Prices will not apply to Reduced Load above the PowerShare Firm Demand during a Curtailment Period.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

POWER FACTOR ADJUSTMENT

The Company will adjust, for power factor, the kWh for any customer operating in parallel, and may adjust the kWh for any other customer served under this schedule. The power factor adjustment may result in a Power Factor Charge, if applicable, as follows:

Power Factor Charge = Sum of Hourly Load Correction Amounts for all hours in the billing period, but not less than zero,

Where:

Hourly Load Correction Amount = Hourly Load Correction kWh x Hourly Price
Hourly Load Correction kWh = [total hourly kWh x (0.85 ÷ hourly power factor)] – total hourly kWh

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each Customer shall enter into a contract to purchase electricity under this schedule for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter, by giving at least sixty (60) days previous notice of such termination in writing.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 31

OFFICIAL COPY

Sep 26 2023

SCHEDULE HLF
HIGH LOAD FACTOR

AVAILABILITY

Available to the individual customer with a kilowatt demand of 1,000 kW or more.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$34.00		
II.	Energy Charge per kWh, per month	2.6603¢		
		Secondary	Primary	Transmission
III.	Demand Charge per kW of Billing Demand, per month	$19.50	$17.94	$17.55

Demand Charge is based on delivery voltage. Secondary service includes delivery voltage less than or equal to 600 volts. Primary service includes delivery voltage greater than 600 volts but less than 44 kV. Transmission service includes delivery voltage greater than or equal to 44 kV.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 31

OFFICIAL COPY

Sep 26 2023

SCHEDULE HLF
HIGH LOAD FACTOR

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 90% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 75% of the Contract Demand
4. 1,000 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kW for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the 25th day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the 25th day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least 60 days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 240

OFFICIAL COPY

Sep 26 2023

RIDER ED
ECONOMIC DEVELOPMENT

AVAILABILITY

Available, only at Company's option, to nonresidential establishments receiving service under Schedule LGS, I or OPT-V provided that the establishment is not classified as Retail Trade or Public Administration by the North American Industry Classification System (NAICS).

This Rider is available for load associated with initial permanent service to new establishments, expansion of existing establishments, or new customers in existing establishments who make application to Company for service under this Rider, and Company approves such application.

This Rider is not available to a new customer which results from a change in ownership of an existing establishment. However, if a change in ownership occurs after Customer contracts for service under this Rider, the successor Customer may be allowed to fulfill the balance of the contract under this Rider and continue the schedule of credits outlined below. This Rider is also not available for resumption of service following interruptions such as equipment failure, temporary plant shutdown, strike, or economic conditions. This Rider is also not available for: (1) load shifted from one establishment or delivery on Company's system to another on Company's system; (2) short-term, construction, or temporary service; or (3) electrical load that results from the shutdown or reduction of generation facilities.

DEFINITIONS

New Load: New Load is that which is added to Company's system by a new establishment. For existing establishments, New Load is the net incremental load above that which existed prior to approval for service under this Rider. The New Load shall exclude any curtailable, back-up, or standby service.

New Load for existing customers considering relocating outside of the Company's service territory may qualify for an Economic Development Bill Factor Reduction. Existing customers must reinvest in existing establishments and meet the capital investment and employment requirements in the Qualifying Criteria in item B below as well as attest to and provide documentation of the consideration to relocate outside of the Company's service territory within the Qualifying Criteria in item C below. New Load shall exclude reductions associated with the removal of equipment and/or processes by existing customers.

Delivery Date: The Delivery Date is the first date service is supplied under the contract.

Operational Date: The Operational Date shall be the date the facility is fully operational as declared by the Customer, but shall be no more than 36 months after the Delivery Date.

QUALIFYING CRITERIA

To participate in this Rider, the Customer must meet the following criteria:

A. The minimum qualifying New Load must have a minimum load factor of 40% at a single point of delivery, must be at least 1,000 kW at the Customer's single premise, and the Customer must have applied for and received economic assistance from the state or local government or other public agency before the Company will approve a Service Agreement under this Rider, except New Load for existing customers considering relocating outside of the Company's service territory.

B. The new or expanding business must also meet at least one of the following two requirements at the project location:

   1) Customer employs an additional workforce in Company's service area of a minimum of 50 full time equivalent (FTE) employees. Employment additions must occur following Company's approval for service under this Rider.

   2) Customer's New Load must result in capital investment of $500,000 per MW and two (2) new FTE employees per MW by Customer in Company's service area. The capital investment must occur following Company's approval for service under this Rider.

C. Customer must provide written documentation attesting that the availability of this Rider is a significant factor in the Customer's location/expansion decision.

OFFICIAL COPY

Sep 26 2023

RIDER ED
ECONOMIC DEVELOPMENT

D. The two (2) new FTE employees in item B.2) and the minimum load factor of 40% requirement in item A are waived for electric vehicle (EV) fleet customers, where 80% of expected energy usage is related to EV charging. Additionally, the minimum qualifying New Load requirement of 1,000 kW in item A is lowered to 500 kW for EV fleet customers. An EV fleet Customer who receives a monthly bill discount under this Rider is not eligible to receive any other EV-related incentives offered by the Company.

GENERAL PROVISIONS

1. Customer must make an application to Company for service under this Rider, and Company must approve such application before Customer may receive service hereunder. The application must include a description of the amount of and nature of the New Load and the basis on which Customer requests qualification shown in the Qualifying Criteria above. In the application, Customer must affirm that availability of this Rider was a factor in Customer's decision to locate the New Load on Company's system. The application shall also specify the total number of FTE employees employed by Customer in all establishments receiving electric service from Company's system, at the time of application for this Rider and on the Operational Date.

2. For Customers contracting under this Rider due to expansion, Company may install metering equipment necessary to measure the New Load to be billed under this Rider separate from the existing load billed under the applicable rate schedule. Company reserves the right to make the determination of whether such installation will be separately metered or sub-metered. If in Company's opinion, the nature of the expansion is such that either separate metering or submetering is impractical or economically infeasible, Company will determine, based on historical usage, what portion of Customer's load, if any, qualifies as New Load eligible for this Rider.

3. All terms and conditions of the Customer's applicable rate schedule shall apply to the service supplied to Customer, except as modified by this Rider.

RATE PER MONTH

All charges shall be those set forth in the Customer's applicable rate schedule with the resulting monthly bill adjusted by the Economic Development Bill Reduction Factor, plus any Extra Facilities Charges as specified in Company's Service Regulations or as otherwise agreed.

ECONOMIC DEVELOPMENT BILL REDUCTION FACTOR

Beginning with the effective date as declared by the Customer and in compliance with this Rider, a reduction in the monthly bill will be applied up to a 75% kW Demand Charge for the qualifying New Load under this Rider.

The percentage discount to be applied to the Customer's monthly bills will be determined in advance, on or prior to the date of execution of a Service Agreement, and will be developed on an individual customer basis given the evaluation of the following criteria as to the New Load:

1. Peak monthly demand;
2. Average monthly load factor;
3. The Company's incremental costs to serve;
4. Number of new FTE employees;
5. Economic multiplier; and
6. Total new capital investment of the Customer.

Item 3 will not take into account the costs for additional facilities that are being covered in full by the Customer through the terms of the Service Agreement or another agreement between the Company and the Customer.

TERM OF SERVICE

The Customer may request the Operational Date as an effective date of this Rider which is no more than 36 months after the Delivery Date. The minimum term of the Service Agreement shall be twice the number of years for which the Customer is receiving a credit

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 240

RIDER ED
ECONOMIC DEVELOPMENT

following the Customer's effective date, with the bill reductions being available for a maximum period of 10 years.

PENALTY FOR NON-COMPLIANCE WITH QUALIIFYING CRITERIA OR TERM OF SERVICE

If at any time during the term of the Rider agreement the Customer violates the terms and conditions of the Rider or the Service Agreement, the Company may discontinue the discount provided for under this Rider and bill the Customer based on their applicable rate schedule. If the Customer terminates service prior to the end of the Agreement period or fails to meet the Qualifying Criteria agreed to for the term of the Agreement, this will constitute a violation of the terms and conditions of the Rider and Agreement.

Should service under this Rider be discontinued by the Company or Customer for said violation, the Customer shall be required to repay to the Company the amount of the cumulative discounts received under this Rider in accordance with the following schedule.

Number of months beginning with and following the effective date declaration and ending with the date of violation	Required percentage of cumulative economic development bill discounts that must be repaid
Month 1 to end of credits	100%
First 12 months after credits cease	80%
Months 13-24 after credits cease	60%
Months 25-36 after credits cease	40%
Months 36-47 after credits cease	20%
Month 48 to term of contract	10%

If a change in ownership occurs after execution of the Service Agreement, the successor Customer may, in the Company's discretion, be allowed to fulfill the balance of the Service Agreement and participate in this Rider.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 139

OFFICIAL COPY

Sep 26 2023

RIDER NSC
NON-RESIDENTIAL SOLAR CHOICE

AVAILABILITY

Available to non-residential Customer-Generators receiving concurrent service from the Company, on a metered rate schedule, except as indicated under General Provisions. A Customer-Generator is an owner, operator, or lessee of an electric generation unit that generates or discharges electricity from a renewable energy resource, including an energy storage device configured to receive electrical charge solely from an onsite renewable energy resource. The renewable net energy metered (NEM) generation, which may include a solar photovoltaic; solar thermal; wind powered; hydroelectric; geothermal; tidal or wave energy; recycling resource; hydrogen fueled or combined heat and power derived from renewable resources; or biomass fueled generation source of energy, must be installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's system. The generation must be located at a single premise owned, operated, leased or otherwise controlled by the Customer. The system may either be owned by the Customer or by a lessor and leased to the Customer.

Customers applying for service under this Rider must be served under an approved general service or industrial rate schedule that includes time-of-use (TOU) periods.

If Customer receives electric service under a schedule other than a TOU schedule with demand rates, any renewable energy credit or "green tags" shall be provided by Customer at no cost to Company. If service is received under a time-of-use schedule with demand rates, all renewable energy credits or "green tags" shall be retained solely by Customer.

GENERAL PROVISIONS

1. To qualify for service under this Rider, the Customer must comply with all applicable interconnection standards and must provide, in writing, the Nameplate Capacity of the Customer's installed renewable generation system. Any subsequent change to the Nameplate Capacity must be provided by Customer to Company in writing by no later than 60 days following the change.

2. To qualify for service under this Rider, the Customer must not be served on another parallel generation rate schedule or rider. For Customer-owned facilities, the Nameplate Capacity of Customer's installed renewable generation system and equipment must not exceed the lesser of 5,000 kW AC or 100% of the Customer's contract demand which shall approximate the Customer's maximum expected demand. For leased facilities, the Nameplate Capacity of Customer's installed renewable generation system and equipment must not exceed the lesser of 1,000 kW AC or 100% of the Customer's contract demand which shall approximate the Customer's maximum expected demand.

3. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.

4. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kWh supplied by the Company plus any demand or other charges under the applicable rate schedule or riders.

5. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity supplied by the Company during a monthly billing period, the Customer-Generator shall be credited for the net excess energy in kWh generated during that billing period at the Monthly Credit rate below.

6. Net electricity will be calculated for each TOU period, in descending order by price. Any net excess energy from one TOU period will be applied to the next TOU period, as applicable. After net electricity has been calculated for all TOU periods, the Customer-Generator shall be credited for any remaining net excess energy at the Monthly Credit rate below.

7. In the event the Company determines that it is necessary to increase the capacity of facilities beyond those required to serve the Customer's electrical requirement or to install a dedicated transformer or other equipment to protect the safety and adequacy of electric service provided to other customers, the Customer shall pay the estimated cost of the required transformer or other equipment above the estimated cost which the Company would otherwise have normally incurred to serve the Customer's electrical requirement, in advance of receiving service under this Rider.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 139

OFFICIAL COPY

Sep 26 2023

RIDER NSC
NON-RESIDENTIAL SOLAR CHOICE

8. A Standby Charge of $1.85 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a TOU demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

RATE

All provisions of the applicable schedule and other applicable riders will apply to service supplied under this Rider, except as modified herein. In addition to all charges in the applicable rate schedule for Customer's net electrical usage, the following credit will be applied to net electricity delivered to the grid by Customer's renewable generation as specified under General Provisions:

Monthly Credit for Net Excess Energy, per kWh $0.0335

METERING REQUIREMENTS

The Company will furnish, install, own and maintain a billing meter to measure the kW demand delivered by the Company to the Customer, and to measure the net kWh purchased by the Customer or delivered to the Company. For renewable generation capacity of 20 kW AC or less, the billing meter will be a single, bi-directional meter which records independently the net flow of electricity in each direction through the meter, unless Customer's overall electrical requirement merits a different meter. For larger renewable generation capacities, the Company may elect to require two meters with 30-minute interval capabilities to separately record Customer's electrical consumption and the total generator output, which will be electronically netted for billing. The Customer grants the Company the right to install, operate, and monitor special equipment to measure the Customer's generating system output, or any part thereof, and to obtain any other data necessary to determine the operating characteristics and effects of the installation. All metering shall be at a location that is readily accessible by the Company.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities Charge shall not apply.

POWER FACTOR

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kWh, as appropriate. The Company reserves the right to install facilities

OFFICIAL COPY

Sep 26 2023

RIDER NSC
NON-RESIDENTIAL SOLAR CHOICE

necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generation system is less than 20 kW and uses an inverter.

CONTRACT PERIOD

The Customer shall enter into a contract for service under this Rider for a minimum original term of one (1) year, and the contract shall automatically renew thereafter, except that either party may terminate the contract after one year by giving at least 60 days prior notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the renewable generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early termination, in accordance with the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
Rate Year 0 North Carolina Tariffs Proposed for Change

LEAF NO.	DESCRIPTION	REVISION NO.

I. **RETAIL CLASSIFICATION**

A. **RESIDENTIAL RATE SCHEDULES**

11	RS Residential Service	55
13	RE Residential Service Electric Water Heating and Space Conditioning	56
14	ES Residential Service Energy Star	39
15	RT Residential Service Time Of Use	55
136	RSTC Residential Service: Time of Use with Critical Peak Pricing	4
137	RETC Residential Service for All-Electric Customers: Time of Use with Critical Peak Pricing	4

B. **GENERAL SERVICE AND INDUSTRIAL RATE SCHEDULES**

21	SGS Small General Service	33
26	BC Building Construction	53
29	LGS Large General Service	32
31	HLF High Load Factor	Orig.
38	TS Traffic Signal Service	52
41	I Industrial Service	60
45	OPT-E Optional Power Service Time-of-Use Energy Only (Pilot)[3]	27
49	OPT-V Optional Power Service Time-of-Use with Voltage Differential	18
54	HP Hourly Pricing	37
55	PG Parallel Generation	65
138	SGSTC Small General Service: Time of Use with Critical Peak Pricing	4
204	S Unmetered Signs[1]	32

C. **LIGHTING RATE SCHEDULES**

32	OL Outdoor Lighting	61
34	PL Street and Public Lighting Service	59
35	NL Nonstandard Lighting (Pilot)[1]	28

D. **RETAIL RIDERS**

		IN CONJUNCTION WITH:	
99	Summary of Rider Adjustments	All	56
60	FCAR Fuel Cost Adjustment Rider	All Retail Schedules	41
62	EE Energy Efficiency Rider	All Retail Schedules	18
64	EDPR Existing DSM Program Costs Adjustment Rider.	All Retail Schedules	19
72	NM Net Metering Rider[2]	All Retail Schedules	14
75	SCG Small Customer Generator Rider	All Retail Schedules	14
78	PS Powershare Nonresidential Load Curtailment	LGS, I, OPT-V, HP	6
80	IS Interruptible Power Service[1]	LGS, I, HP, OPT-V	10
82	SG Standby Generator Control[3]	General Service and Industrial Schedules	5
84	EC Economic Development[2]	LGS, I, OPT-V	7
87	ER Economic Redevelopment[2]	LGS, I, OPT-V	7
104	GS Green Source (Experimental)[1]	OPT-V	1
129	EDIT-3 Excess Deferred Income Tax Rider-3	All Retail Schedules	2
131	EDIT-4 Excess Deferred Income Tax Rider-4	All Retail Schedules	2
133	STS Storm Securitization Rider	All Retail Schedules	6
135	SCR Storm Cost Recovery Rider[3]	All Retail Schedules	1
139	NSC Non-Residential Solar Choice	General Service and Industrial Schedules	Orig.
144	CAR Customer Assistance Recovery Rider	Residential, General Service and Industrial	Orig.
145	GSA Green Source Advantage Rider	General Service and Industrial Schedules	3
240	ED Economic Development	LGS, I, OPT-V	Orig.
331	SRR Solar Rebate Rider	All Retail Schedules	7

E. **RETAIL PROGRAMS**

		APPLICABLE TO:	
175	CAP Customer Assistance Program Credit	Residential Schedules	Orig.
320	Remote Meter Reading and Usage Data Service	Non-Residential Schedules	5

F. **OTHER TARIFFS, CONTRACT FORMS AND ADMINISTRATIVE PROCEDURES**

400	Distribution Line Extension Plan	2
401	Service Regulations	8
402	Outdoor Lighting Service Regulations	Orig.

[1]Not available for new applications
[2]Not available for new applications on and after January 1, 2024
[3]Closed on and after January 1, 2024

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Fifth Revised Leaf No. 11
Superseding NC Fifty-Fourth Revised Leaf No. 11

SCHEDULE RS
RESIDENTIAL SERVICE

AVAILABILITY

Available to residential customers in residences, condominiums, manufactured homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge per month	$ 14.00
II.	Energy Charge per month, per kWh*	10.6460¢

*For customers receiving Supplemental Security Income (SSI) under the program administered by the Social Security Administration and who are blind, disabled, or 65 years of age or over, the rate for the first 350 kWh used per month shall be 9.5814 cents per kWh. This is an experimental rate authorized by the North Carolina Utilities Commission on August 31, 1978. The present maximum discount to customers being served under this experiment is $3.73 per month.

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

OFFICIAL COPY

Sep 26 2023

SCHEDULE RS
RESIDENTIAL SERVICE

Leaf No. 144 CAR Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RE
RESIDENTIAL SERVICE
ELECTRIC WATER HEATING AND SPACE CONDITIONING

AVAILABILITY

Available to residential customers in residences, condominiums, manufactured homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation. In addition, all energy required for all water heating and environmental space conditioning must be supplied electrically, and all electric energy used in such dwelling must be recorded through a single meter. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

To qualify for service under this Schedule, the environmental space conditioning system and a separate electric water heater must permanently be installed in accordance with sound engineering practices and the manufacturer's recommendations, and both shall meet the requirements below.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge per month	$14.00
II.	Energy Charge	
	For the billing months of May – September	
	For all kWh per month, per kWh*	10.1606¢
	For the billing months of October – April	
	For the first 800 kWh per month, per kWh*	10.1606¢
	For all over 800 kWh per month, per kWh	9.1445¢

*For customers receiving Supplemental Security Income (SSI) under the program administered by the Social Security Administration and who are blind, disabled, or 65 years of age or over, the rate for the first 350 kWh used per month shall be 9.1445 cents per kWh. This is an experimental rate authorized by the North Carolina Utilities Commission on August 31, 1978. The present maximum discount to customers being served under this experiment is $3.56 per month.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RE
RESIDENTIAL SERVICE
ELECTRIC WATER HEATING AND SPACE CONDITIONING

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 144	CAR Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

REQUIREMENTS

An electric water heater meeting the specifications set forth below must be installed and used to supply the entire water heating requirements, except that which may be supplied by non-fossil sources such as solar.

1. Water heaters shall be of the automatic insulated storage type, of not less than 30-gallon capacity and may be equipped with only a lower element or with a lower element and an upper element.
2. Water heaters having only a lower element may have wattages up to but not exceeding the wattages shown below for various tank capacities.

Tank Capacity in Gallons	Maximum Single Element Wattage
30 – 49	4,500
50 – 119	5,500
120 and larger	Special approval

3. The total wattage of the elements in a water heater with a lower element and an upper element may not exceed the specific wattages above unless the water heater has interlocking thermostats to prevent simultaneous operation of the two elements such that the maximum wattage is not exceeded during operation.

Electric space conditioning meeting the specifications set forth below must be installed and used to supply the entire space conditioning requirements, except that which may be supplied by supplemental non-fossil sources such as solar.

1. Room-type systems shall be controlled by individual room thermostats.
2. Heat pumps shall be controlled by two-stage heating thermostats, the first stage controlling compressor operation and the second stage controlling all auxiliary resistance heaters. Auxiliary heaters shall be limited to 48 amps (11.5 KW at 240 volts) each and shall be switched so that the energizing of each successive heater is controlled by a separate adjustable outdoor thermostat. A manual switch for by-pass of the first stage and the interlock of the second stage of the heating thermostat will be permitted.
3. Excess heating capacity (15% more than total calculated heat losses) may be disconnected at the option of the Company.
4. Total heat loss shall not exceed 30 BTUH (at 60 degrees F. temperature differential) per square foot of net heated area. Duke Power's procedure for calculating heat loss or the current edition of ASHRAE (American Society of Heating,

OFFICIAL COPY

Sep 26 2023

SCHEDULE RE
RESIDENTIAL SERVICE
ELECTRIC WATER HEATING AND SPACE CONDITIONING

Refrigerating, and Air Conditioning Engineers) Guide shall be the source for heat loss calculations. Duct or pipe losses shall be included in the computation of total heat losses.

Billing of service under this schedule will begin after the Customer has notified the Company that qualifications have been met. The Company at all reasonable times shall have the right to periodically inspect the premises of the Customer for compliance with the requirements, subsequent to the initial inspection.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Thirty-Ninth Revised Leaf No. 14
Superseding NC Thirty-Eighth Revised Leaf No. 14

SCHEDULE ES
RESIDENTIAL SERVICE, ENERGY STAR

AVAILABILITY

Available to residential customers in residences, condominiums, manufactured homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation, and which are certified to meet the standards of the Energy Star program of the United States Department of Energy and Environmental Protection Agency. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

To qualify for service under this Schedule compliance with the Energy Star standards must be verified by a third party independent Home Energy Rating System (HERS) rater working for an approved HERS provider.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

Electric space heating and/or electric domestic water heating are not required, but if present, must meet the standards outlined below to qualify for the All-Electric rate, and must be permanently installed in accordance with sound engineering practices and the manufacturer's recommendations. In addition, to qualify for service under this schedule all electric energy used in the dwelling must be recorded through a single meter.

Energy Star Home Certification criteria may vary based on the geographical location of the residence. The criteria for each county served by Company and a list of independent HERS raters are available from the Company or on the Energy Star web site at www.energystar.gov.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

		Standard	All-Electric
I.	Basic Customer Charge per month	$14.00	$14.00
II.	Energy Charge		
	For the billing months of May – September		
	For all kWh per month, per kWh	10.1173¢	9.6562¢
	For the billing months of October – April		
	For the first 800 kWh per month, per kWh	10.1173¢	9.6562¢
	For all over 800 kWh per month, per kWh	10.1173¢	8.6909¢

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Thirty-Ninth Revised Leaf No. 14
Superseding NC Thirty-Eighth Revised Leaf No. 14

SCHEDULE ES
RESIDENTIAL SERVICE, ENERGY STAR

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 144	CAR Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

REQUIREMENTS

The Standard rate above is applicable to residences where the Energy Star standards are met, irrespective of the source of energy used for water heating or environmental space conditioning.

The All-Electric rate above is applicable to residences where the Energy Star standards are met and all energy required for all water heating cooking, clothes drying and environmental space conditioning is supplied electrically, except that which may be supplied by non-fossil sources such as solar.

1. Water heaters shall be of the automatic insulated storage type, of not less than 30-gallon capacity and may be equipped with only a lower element or with a lower element and an upper element.

2. Water heaters having only a lower element may have wattages up to but not exceeding the wattages shown below for various tank capacities.

Tank Capacity in Gallons	Maximum Single Element Wattage
30 – 49	4500
50 – 119	5500
120 and larger	Special approval

3. The total wattage of the elements in a water heater with a lower element and an upper element may not exceed the specific wattages above unless the water heater has interlocking thermostats to prevent simultaneous operation of the two elements such that the maximum wattage is not exceeded during operation.

Billing of service under this schedule will begin after the Customer has provided the Company with certification that the residence meets the Energy Star standards. In addition, if the residence meets the All-Electric Rate requirements, billing of service under the All-Electric rate will begin after the Customer has provided satisfactory documentation that the residence meets the All-Electric rate requirements. The Company at all reasonable times shall have the right to periodically inspect the premises of the Customer for compliance with the requirements, subsequent to the initial inspection.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of

OFFICIAL COPY

Sep 26 2023

SCHEDULE ES
RESIDENTIAL SERVICE, ENERGY STAR

the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Fifth Revised Leaf No. 15
Superseding NC Fifty-Fourth Revised Leaf No. 15

SCHEDULE RT
RESIDENTIAL SERVICE, TIME OF USE

AVAILABILITY

Available on a voluntary basis to individually-metered residential customers in residences, condominiums, manufactured homes, or apartments which provide independent facilities for living, sleeping, eating, cooking, and sanitation. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge per month	$14.00
II.	Demand Charges	
	On-Peak Demand per month, per kW	$2.22
	Max Demand per month, per kW	$4.25
III.	Energy Charges	
	On-Peak Energy per month, per kWh	14.7598¢
	Off-Peak Energy per month, per kWh	6.7599¢
	Discount Energy per month, per kWh	4.6493¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Fifth Revised Leaf No. 15
Superseding NC Fifty-Fourth Revised Leaf No. 15

SCHEDULE RT
RESIDENTIAL SERVICE, TIME OF USE

Leaf No. 129 EDIT-3 Rider
Leaf No. 131 EDIT-4 Rider
Leaf No. 144 CAR Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF BILLING DEMAND

I. On-Peak Demand shall be the maximum 30-minute demand in the On-Peak Period during the current billing month.

II. Max Demand shall be the maximum 30-minute demand during the current billing month.

MINIMUM BILL

The minimum bill shall be the Basic Customer Charge.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourth Revised Leaf No. 136
Superseding NC Third Revised Leaf No. 136

SCHEDULE RSTC
RESIDENTIAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

AVAILABILITY

Available to residential customers in residences, condominiums, mobile homes, or individually-metered apartments which provide independent facilities for living, sleeping, eating, cooking, and sanitation. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the Customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge, per month	$14.00
II.	Energy Charges	
	Critical Peak Energy per month, per kWh	39.1353¢
	On-Peak Energy per month, per kWh	21.5017¢
	Off-Peak Energy per month, per kWh	9.4134¢
	Discount Energy per month, per kWh	6.8055¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to each of the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourth Revised Leaf No. 136
Superseding NC Third Revised Leaf No. 136

SCHEDULE RSTC
RESIDENTIAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

Leaf No. 131 EDIT-4 Rider
Leaf No. 144 CAR Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF CRITICAL PEAK PRICING

The Company will call up to 20 Critical Peak Days per calendar year. The number of Critical Peak Days permitted annually may be exceeded in the event of a system emergency that is expected to place the Company's ability to provide reliable service to customers at risk.

During Company-designated Critical Peak Days, On-Peak Hours will become Critical Peak Hours. The Company may shift the Critical Peak Hours one hour earlier or later than the regular On-Peak Hours to provide flexibility for system operations; however, the number of Critical Peak Hours per day will remain the same as the number of On-Peak Hours that would have otherwise occurred. Any shift in Critical Peak Hours will be reflected in the customer notification.

NOTIFICATION OF CRITICAL PEAK PRICING

The Company will notify customers of Critical Peak Days and applicable Critical Peak Hours by 4:00 pm on the prior day. Customers may elect to receive notifications by phone, email and/or text message. The Company will use its best efforts to notify customers by 4:00 pm on the prior day; however, notification of Critical Peak Days may occur at any time, but no later than one hour prior to the Critical Peak period. Receipt of Critical Peak Pricing notification is the Customer's responsibility.

MINIMUM BILL

The minimum bill shall be the Basic Customer Charge.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall

OFFICIAL COPY

Sep 26 2023

SCHEDULE RSTC
RESIDENTIAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on 30 days written notice.

GENERAL PROVISIONS

Participating customers must provide and maintain internet accessibility, an email address, and/or means to receive phone calls or text messages, as appropriate, at the Customer's expense in order for the Company to provide notification for Critical Peak Pricing.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourth Revised Leaf No. 137
Superseding NC Third Revised Leaf No. 137

SCHEDULE RETC
RESIDENTIAL SERVICE FOR ALL-ELECTRIC CUSTOMERS: TIME OF USE WITH CRITICAL PEAK PRICING

AVAILABILITY

Available to residential customers in residences, condominiums, mobile homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation. In addition, all energy required for all water heating and environmental space conditioning must be supplied electrically, and all electric energy used in such dwelling must be recorded through a single meter. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

To qualify for service under this Schedule, the environmental space conditioning system and a separate electric water heater must permanently be installed in accordance with sound engineering practices and the manufacturer's recommendations, and both shall meet the requirements below.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge, per month	$14.00
II.	Energy Charges	
	Critical Peak Energy per month, per kWh	39.9704¢
	On-Peak Energy per month, per kWh	19.2728¢
	Off-Peak Energy per month, per kWh	8.7985¢
	Discount Energy per month, per kWh	6.3649¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to each of the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60 Fuel Cost Adjustment Rider
Leaf No. 62 Energy Efficiency Rider

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourth Revised Leaf No. 137
Superseding NC Third Revised Leaf No. 137

SCHEDULE RETC
RESIDENTIAL SERVICE FOR ALL-ELECTRIC CUSTOMERS:
TIME OF USE WITH CRITICAL PEAK PRICING

Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 144	CAR Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF CRITICAL PEAK PRICING

The Company will call up to 20 Critical Peak Days per calendar year. The number of Critical Peak Days permitted annually may be exceeded in the event of a system emergency that is expected to place the Company's ability to provide reliable service to customers at risk.

During Company-designated Critical Peak Days, On-Peak Hours will become Critical Peak Hours. The Company may shift the Critical Peak Hours one hour earlier or later than the regular On-Peak Hours to provide flexibility for system operations; however, the number of Critical Peak Hours per day will remain the same as the number of On-Peak Hours that would have otherwise occurred. Any shift in Critical Peak Hours will be reflected in the customer notification.

NOTIFICATION OF CRITICAL PEAK PRICING

The Company will notify customers of Critical Peak Days and applicable Critical Peak Hours by 4:00 pm on the prior day. Customers may elect to receive notifications by phone, email and/or text message. The Company will use its best efforts to notify customers by 4:00 pm on the prior day; however, notification of Critical Peak Days may occur at any time, but no later than one hour prior to the Critical Peak period. Receipt of Critical Peak Pricing notification is the Customer's responsibility.

MINIMUM BILL

OFFICIAL COPY

Sep 26 2023

SCHEDULE RETC
RESIDENTIAL SERVICE FOR ALL-ELECTRIC CUSTOMERS:
TIME OF USE WITH CRITICAL PEAK PRICING

The minimum bill shall be the Basic Customer Charge.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on 30 days written notice.

GENERAL PROVISIONS

Participating customers must provide and maintain internet accessibility, an email address, and/or means to receive phone calls or text messages, as appropriate, at the Customer's expense in order for the Company to provide notification for Critical Peak Pricing.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Thirty-Third Revised Leaf No. 21
Superseding NC Thirty-Second Revised Leaf No. 21

SCHEDULE SGS
SMALL GENERAL SERVICE

AVAILABILITY

Available to the individual customer with a kilowatt demand of 75 kW or less. If the customer's measured demand exceeds 75 kW during any month, the customer will be served under Schedule LGS.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$21.00
II.	Demand Charge	
	For the first 30 kW of Billing Demand per month, per kW	No Charge
	For all over 30 kW of Billing Demand per month, per kW	$5.92
III.	Energy Charge	
	For the first 3,000 kWh per month, per kWh	12.1649¢
	For the next 6,000 kWh per month, per kWh	6.6907¢
	For all over 9,000 kWh per month, per kWh	5.7175¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGS
SMALL GENERAL SERVICE

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule, unless the service qualifies for a waiver of the REPS Billing Factor for an auxiliary service.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 70% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 50% of the Contract Demand
4. 30 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

SPECIAL TERMS AND CONDITIONS

Electric service for the operation of community access television (CATV) distribution line power supply equipment is available under this rate schedule for constant load as determined by the Company. Such service is provided only on a metered basis, and each individual delivery point shall be billed the Basic Customer Charge shown above, and all kWh will be billed at a rate of 5.6275 cents per kWh.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGS
SMALL GENERAL SERVICE

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE BC
BUILDING CONSTRUCTION SERVICE

AVAILABILITY

Available only as temporary service to builders for use in the construction of buildings or other establishments which will receive, upon completion, permanent electric service from the Company's lines.

This Schedule is not available for permanent service to any building or other establishment, or for service to construction projects of types other than those described above. This Schedule is not available to rock crushers, asphalt plants, carnivals, fairs, or other non-permanent connections. Such service will be provided under the applicable general service schedule.

This Schedule is not available for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power, or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter at one delivery point, at 120/240 volts, single phase.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$ 21.00
II.	Energy Charge	
	For the first 50 kWh used per month, per kWh	8.9703¢
	For all over 50 kWh used per month, per kWh	6.9494¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

OTHER CHARGES

There will be no charge for connection and disconnection of the temporary service if the builder accepts delivery at a point where the Company deems such delivery feasible: otherwise, there will be a charge as follows: Overhead service conductors, transformers and line extensions necessary to serve such requirements will be erected and dismantled at actual cost subject to credit for facilities which may remain in permanent service. The actual cost shall include payroll, transportation, and

OFFICIAL COPY

Sep 26 2023

SCHEDULE BC
BUILDING CONSTRUCTION SERVICE

miscellaneous expense for both erection and dismantling of the temporary facilities, plus the cost of material used, less the salvage value of the material removed.

If the builder or his subcontractors require additional temporary services at the same construction site, a charge, computed as in the foregoing, shall be made for each such service. The Company may require a deposit equal to the estimated cost of connection and disconnection plus the estimated billing on the foregoing rate for the period involved, said deposit to be returned if the contract period is fulfilled.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The term of this contract shall be the estimated length of time, declared by the builder on making application for service, required for completion of construction at the location where service is requested. The builder shall notify the Company when construction is completed. If at any time during the term of this contract, inspection discloses construction completed, or energy being used for purposes other than that set forth in this Schedule, the contract shall be deemed terminated, and billing for service thereafter, until disconnection is requested, shall be on the applicable general service schedule. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Thirty-Second Revised Leaf No. 29
Superseding NC Thirty-First Revised Leaf No. 29

SCHEDULE LGS
LARGE GENERAL SERVICE

AVAILABILITY

Available to the individual customer with a kilowatt demand of more than 75 kW. If the customer's measured demand is 75 kW or less for twelve consecutive months, the customer will be served under Schedule SGS.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$26.00
II.	Demand Charge	
	For the first 30 kW of Billing Demand per month, per kW	No Charge
	For all over 30 kW of Billing Demand per month, per kW	$4.42
II.	Energy Charge	
	For the first 125 kWh per kW Billing Demand per month:	
	For the first 3,000 kWh per month, per kWh	12.3693¢
	For all over 3,000 kWh per month, per kWh	7.3059¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE LGS
LARGE GENERAL SERVICE

For the next 275 kWh per kW Billing Demand per month:	
For the first 6,000 kWh per month, per kWh	6.8153¢
For all over 6,000 kWh per month, per kWh	5.9112¢
For all over 400 kWh per kW Billing Demand per month:	
For all kWh per month, per kWh	5.5288¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider as shown in Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 70% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 50% of the Contract Demand
4. 30 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

OFFICIAL COPY

Sep 26 2023

SCHEDULE LGS
LARGE GENERAL SERVICE

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 31

SCHEDULE HLF
HIGH LOAD FACTOR

AVAILABILITY

Available to the individual customer with a kilowatt demand of 1,000 kW or more.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$34.00		
II.	Energy Charge per kWh, per month	2.6603¢		
		Secondary	Primary	Transmission
III.	Demand Charge per kW of Billing Demand, per month	$19.50	$17.94	$17.55

Demand Charge is based on delivery voltage. Secondary service includes delivery voltage less than or equal to 600 volts. Primary service includes delivery voltage greater than 600 volts but less than 44 kV. Transmission service includes delivery voltage greater than or equal to 44 kV.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HLF
HIGH LOAD FACTOR

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 90% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 75% of the Contract Demand
4. 1,000 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kW for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the 25th day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the 25th day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least 60 days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Second Revised Leaf No. 38
Superseding NC Fifty-First Revised Leaf No. 38

SCHEDULE TS
TRAFFIC SIGNAL SERVICE

AVAILABILITY

Available to municipalities in which the Company owns and operates the electric distribution system, and to County, State, and Federal Authorities, in areas served by the Company, for the energy requirements of traffic and safety signal systems, wireless communications equipment, and cameras used to monitor traffic.

Power delivered under this Schedule shall not be used for resale or exchange or in parallel with other electric power, or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at 120/240 volts, single-phase.

RATE

I.	Basic Customer Charge per month	$8.00
II.	Energy Charge	
	For the first 50 kWh per month, per kWh	33.4483¢
	For all over 50 kWh per month, per kWh	12.5322¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year and thereafter until terminated by either party on thirty days' written notice.

OFFICIAL COPY

Sep 26 2023

SCHEDULE TS
TRAFFIC SIGNAL SERVICE

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE I
INDUSTRIAL SERVICE

AVAILABILITY

Available only to establishments classified as "Manufacturing" by the North American Industry Classification System (NAICS), and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$21.00
II.	Demand Charge	
	For the first 30 kW of Billing Demand per month, per kW	No Charge
	For all over 30 kW of Billing Demand per month, per kW	$5.03
III.	Energy Charge	
	For the first 125 kWh per kW Billing Demand per month:	
	For the first 3,000 kWh per month, per kWh	12.4287¢
	For all over 3,000 kWh per month, per kWh	6.7478¢
	For the next 275 kWh per kW Billing Demand per month:	
	For the first 6,000 kWh per month, per kWh	5.5753¢
	For all over 6,000 kWh per month, per kWh	5.3523¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE I
INDUSTRIAL SERVICE

For all over 400 kWh per kW Billing Demand per month:
For all kWh per month, per kWh 4.9693¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 70% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 50% of the Contract Demand
4. 30 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances.

OFFICIAL COPY

Sep 26 2023

SCHEDULE I
INDUSTRIAL SERVICE

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Twenty-Seventh Revised Leaf No. 45
Superseding NC Twenty-Sixth Revised Leaf No. 45

SCHEDULE OPT-E
OPTIONAL POWER SERVICE TIME-OF-USE, ENERGY-ONLY (PILOT)

AVAILABILITY

This Schedule is closed and not available for new service on and after January 1, 2024. Any customers served under this Schedule on January 1, 2024 will be transitioned to another rate schedule at the start of their next billing cycle.

This schedule is closed and not available to customers or locations not served on this Schedule prior to January 1, 2010 and shall remain in effect for customers under continually effective agreements for this Schedule made prior to January 1, 2012 where the individual customer was previously on Schedule OPT-I or Schedule OPT-G with a maximum annual demand during the On-Peak Hours of more than 2,000 kW The maximum annual On-Peak Demand of all participating customers will not exceed 25,000 kW. This pilot will remain in effect until at least 12 months after September 25, 2013. Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Facilities Charge per month	$33.21

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Twenty-Seventh Revised Leaf No. 45
Superseding NC Twenty-Sixth Revised Leaf No. 45

SCHEDULE OPT-E
OPTIONAL POWER SERVICE TIME-OF-USE, ENERGY-ONLY (PILOT)

II. Energy Charge	Summer Months June 1 – September 30	Winter Months October 1 – May 31
A. On-Peak Energy		
For the first 100,000 kWh per month, per kWh	18.3727¢	14.6982¢
For all over 100,000 kWh per month, per kWh	13.3006¢	9.5334¢
B. All Off-Peak Energy per month, per kWh	3.4213¢	3.4213¢

RATE EQUALIZATION ADJUSTMENT

A Rate Equalization Adjustment will apply to the Customer's total monthly usage in addition to the charges above. Prior to entering an agreement for service under this Schedule, a kilowatt hour adjustment factor (kWh Factor) will be calculated by taking the annual difference in revenue between Schedule OPT-I and Schedule OPT-E, based on a historical twelve-month billing period. The resulting difference in annual revenue divided by the annual kilowatt hour usage is the kWh factor increment or decrement which will be applied to all kilowatt hours used per month under this Schedule.

In determining the kWh Factor, the Customer and the Company will mutually agree on a historical twelve-month billing period. The annual revenue under Schedule OPT-E will be calculated for the same historical period using load profile data if available; however, where load profile data is not available or insufficient, the kWh Factor will be zero. The kWh Factor will remain in effect throughout the term of this pilot.

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 131	Storm Cost Recovery Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK AND OFF-PEAK HOURS

	Summer Months June 1 – September 30	Winter Months October 1 – May 31
On-Peak Period Hours	1:00 p m. – 9:00 p m. Monday – Friday	6:00 a m. – 1:00 p.m. Monday – Friday
Off-Peak Period Hours	All other weekday hours and all Saturday and Sunday hours. All hours for the following holidays shall be considered as Off-Peak: New Year's Day, Memorial Day, Good Friday, Independence Day, Labor Day,	

OFFICIAL COPY

Sep 26 2023

SCHEDULE OPT-E
OPTIONAL POWER SERVICE TIME-OF-USE, ENERGY-ONLY (PILOT)

Thanksgiving Day, Day after Thanksgiving, and Christmas Day.

DEFINITION OF "MONTH"

The term "month" as used in this Schedule means the period intervening between meter readings for the purposes of monthly billings. Readings are taken once a month at intervals of approximately thirty (30) days.

Summer months rates apply to service from June 1 through September 30. Winter months apply to service from October 1 through May 31.

CONTRACT DEMAND

The Company will require contracts to specify the maximum demand to be delivered to the Customer which shall be the Contract Demand.

MINIMUM BILL

The minimum bill shall be the bill calculated on the Rate above including the Basic Facilities Charge and Energy Charge, but shall not be less than the Basic Facilities plus $2.13 per kW of the Contract Demand.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Eighteenth Revised Leaf No. 49
Superseding NC Seventeenth Revised Leaf No. 49

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

AVAILABILITY

Available to the individual customer with a Contract Demand that equals or exceeds 75 kW. Customers with a Contract Demand under 75 kW, served under this Schedule prior to January 1, 2024 under continually effective agreements, may continue to receive service under this Schedule. Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I. Transmission Service
Delivery voltage greater than or equal to 44 kV

A. Basic Customer Charge	$34.00
B. Demand Charges	
On-Peak Demand per month, per kW	$2.48
Mid-Peak Demand	
For the first 1,000 kW per month, per kW	$6.16
For the next 2,000 kW per month, per kW	$6.16
For all over 3,000 kW per month, per kW	$6.16

OFFICIAL COPY
Sep 26 2023

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

Base Demand per month, per kW	$0.49
C. Energy Charges	
On-Peak Energy per month, per kWh	8.8805¢
Off-Peak Energy per month, per kWh	3.7653¢
Discount Energy per month, per kWh	2.4066¢

II. Primary Service

Delivery voltage greater than 600 volts but less than 44 kV where the maximum on-peak actual demand during the months of May – September is as follows: Small - less than or equal to 1,000 kW; Medium - greater than 1,000 kW but less than or equal to 3,000 kW; Large - greater than 3,000 kW

	Small	Medium	Large
A. Basic Customer Charge	$34.00	$34.00	$34.00
B. Demand Charges			
On-Peak Demand per month, per kW	$3.16	$3.16	$3.16
Mid-Peak Demand			
For the first 1,000 kW per month, per kW	$7.92	$7.92	$7.92
For the next 2,000 kW per month, per kW	$7.37	$7.37	$7.37
For all over 3,000 kW per month, per kW	$7.37	$7.37	$7.37
Base Demand per month, per kW	$1.04	$1.04	$1.04
C. Energy Charges			
On-Peak Energy per month, per kWh	8.6666¢	8.6666¢	8.6666¢
Off-Peak Energy per month, per kWh	3.7527¢	3.7527¢	3.7527¢
Discount Energy per month, per kWh	2.4266¢	2.4266¢	2.4266¢

III. Secondary Service

Delivery voltage less than or equal to 600 volts where the maximum on-peak actual demand during the months of May – September is as follows: Small - less than or equal to 1,000 kW; Medium - greater than 1,000 kW but less than or equal to 3,000 kW; Large - greater than 3,000 kW

	Small	Medium	Large
A. Basic Customer Charge	$34.00	$34.00	$34.00
B. Demand Charges			
On-Peak Demand per month, per kW	$3.08	$3.08	$3.08
Mid-Peak Demand			
For the first 1,000 kW per month, per kW	$7.28	$7.28	$7.28
For the next 2,000 kW per month, per kW	$6.77	$6.77	$6.77
For all over 3,000 kW per month, per kW	$5.61	$5.61	$5.61
Base Demand per month, per kW	$1.46	$1.46	$1.46
C. Energy Charges			
On-Peak Energy per month, per kWh	8.9668¢	8.9668¢	8.9668¢
Off-Peak Energy per month, per kWh	3.9723¢	3.9723¢	3.9723¢
Discount Energy per month, per kWh	2.6094¢	2.6094¢	2.6094¢

DETERMINATION OF CUSTOMER SIZE CLASSIFICATION

The demand used to determine the rate classification of the customer as Small, Medium or Large, used in the calculation of the monthly bill, shall be the maximum 30-minute on-peak actual demand registered during the months of May-September within the

OFFICIAL COPY
Sep 26 2023

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

previous 12 months; however, if the customer was not served on a time of use rate prior to taking service under Schedule OPT-V, the customer's maximum integrated 30-minute actual demand for the billing months of May through September shall be used. For new customers, the Company shall determine the size classification based on an appropriate estimate of the maximum on peak actual demand for the months of May through September.

Each year, at the end of the summer season, accounts will be reviewed to determine if a change in classification is necessary based on the most recent months of May through September. If a change in classification is warranted, such change and reclassification shall be effective with the November billing period which follows the summer season. The Company may, at its option, change the rate classification at other times if, upon its own assessment, the Company determines that a change in the load would warrant a change in classification prior to the annual review.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

OFFICIAL COPY

Sep 26 2023

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

CONTRACT DEMAND

The Company will require contracts to specify the maximum demand to be delivered to the Customer which shall be the Contract Demand.

DETERMINATION OF BILLING DEMANDS

I. On-Peak Demand shall be the maximum 30-minute demand in the On-Peak Period during the current billing month.

II. Mid-Peak Demand shall be the maximum 30-minute demand in either the On-Peak or Off-Peak Period during the current billing month.

III. Base Demand shall be the higher of (1) the maximum 30-minute demand during the previous 12 billing months including the current billing month, or (2) 50% of the Contract Demand.

Provision III.(2) related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

AVAILABILITY

Available to non-residential establishments with a minimum Contract Demand of 1,000 kW who qualify for service under the Company's rate schedules LGS, I, OPT-V or HLF.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available for a customer who qualifies for a residential schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, under special terms and conditions expressed in writing in the contract with the Customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in, or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

The Company may cancel this schedule at any time it deems necessary.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

BILL DETERMINATION

The monthly bill shall consist of the following charges:

I. Baseline Charge = sum of charges under the Customer's baseline rate schedule for their Customer Baseline Load
II. Administrative Charge = $200 per month
III. Energy Charge = sum of [(New Load kWh – Reduced Load kWh) x Hourly Energy Price]
IV. Capacity Charge = sum of [(New Load kWh – Reduced Load kWh) x Hourly Capacity Price]
V. Incentive Margin = 0.6 cents per kWh of Net New Load
VI. Incremental Demand Charge = $0.93 per kW of Incremental Demand for Distribution Service
= $0.93 per kW of Incremental Demand for Transmission Service

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

DEFINITIONS

Customer Baseline Load (CBL): The CBL is one full year of hourly loads representing the Customer's energy use and load pattern on their baseline rate schedule. The CBL, as agreed to by the Customer and the Company, is defined in terms of average kWh per hour and max kW, by calendar month and by time-of-use (TOU) period, if applicable. The CBL is based on the Customer's historical usage, where available, and may be adjusted for load responsiveness as described in the Customer Baseline Load provisions below. The Customer is billed or credited at Hourly Prices for actual usage above or below their CBL.

New Load: New Load (kWh) is the amount by which actual kWh exceeds CBL kWh for any hour.

Reduced Load: Reduced Load (kWh) is the amount by which actual kWh is less than CBL kWh for any hour.

Net New Load: Net New Load (kWh) is equal to New Load kWh minus Reduced Load.

Incremental Demand: Incremental Demand (kW) is the amount by which actual kW (maximum 30-minute demand during the current billing month) exceeds CBL kW for the same billing month.

Contract Demand: The maximum demand to be delivered under this Schedule.

CUSTOMER BASELINE LOAD

Initial CBL Establishment:

An initial CBL will be established based on the Customer's load history in the previous 12 months, as determined by the Company and agreed to by the Customer. Adjustments or use of prior load history may be allowed in such cases as permanent removal or addition of equipment; installation of permanent energy efficiency measures; installation of parallel generation; nonrepresentative load patterns from extraordinary events; and plant shutdowns.

CBL Modifications:

CBL's are required to be re-established after four (4) years. Subsequent CBL's will be established using the same process and considerations as the initial CBL for existing customers, in addition to the Load Response Adjustment described below. Customers may request an update to their CBL no earlier than 12 months from their previous CBL. Customers served under Schedule HP before January 1, 2024 under continually effective agreements are not required to re-establish their CBL after four years unless and until the Customer requests an update of their CBL for any reason.

Load Response Adjustment:

For customers on a TOU baseline schedule, CBL modifications may include a Load Response Adjustment, at the Customer's option and requiring at least 48 months of representative load history on Schedule HP. The Adjustment reduces the Customer's CBL for demonstrated load reductions on days when Hourly Capacity Prices are in effect. The Company will calculate the Customer's weighted average Load Response Factor, as a percentage of load, over the previous 48 months. The Customer's On-Peak CBL (kW and kWh) will be reduced by the full Load Response Factor, and the Customer's Off-Peak CBL will be reduced by half of the Load Response Factor. CBL's for Discount hours will not be adjusted.

HOURLY PRICING

Each business day by 4:00 p.m., the Hourly Energy Prices and Hourly Capacity Prices (if applicable) for the 24 hours of the following day will be communicated to the Customer. Prices for weekends and Company holidays will be communicated to the Customer by 4:00 p.m. on the last business day before the weekend or holiday. The Customer is responsible for notifying the company if he or she fails to receive the price information.

Hourly Energy Prices are based on the Company's forecasted marginal energy cost in each hour, which includes marginal fuel, variable operating and maintenance expenses, and an adjustment for delivery line losses.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

Hourly Capacity Prices are applicable when the daily forecast indicates a reserve ratio of 1.15 or less, calculated as available generation divided by system demand. The Hourly Capacity Price is zero for all other hours of the year. When applicable, the Hourly Capacity Price is a tiered rate based on the forecasted reserve ratio, reflecting the marginal cost of production capacity.

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider (applicable to Baseline Charge only)
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PROVISION FOR CUSTOMERS OPERATING IN PARALLEL WITH THE COMPANY

Customers served under this Schedule are permitted to operate power generating facilities in parallel with the Company, with a maximum operating capacity of 50 megawatts or less. If a customer has power generating facilities that are not governed by another parallel generation rate schedule or rider, the Standby Charge, Determination of Standby Charges, and Interconnection Facilities Charge provisions of Schedule PG shall be applicable to service under this Schedule. The Incremental Demand Charge does not apply to any incremental demand that is less than Standby Demand. In addition, customers operating a generator in parallel with the Company's system must comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

PROVISION FOR CUSTOMERS SERVED UNDER RIDER IS

For customers served under Rider IS, the Interruptible Contract Demand shall be the same as that contracted for during the baseline period. Further, the calculation of the Effective Interruptible Demand (EID) each month will exclude all energy consumed above the CBL. Hourly Capacity Prices will not apply to Reduced Load above Firm Contract Demand during the hours of interruption periods.

PROVISION FOR CUSTOMERS SERVED UNDER RIDER PS

For customers served under PowerShare Rider PS, the Maximum Curtailable Demand shall be the same as that contracted for during the baseline period, and the PowerShare Firm Demand must be at least 100 kW less than the CBL. Further, the calculation of the Effective Curtailable Demand (ECD) each month will exclude all energy consumed above the CBL. The PowerShare Curtailed Energy Credit will apply to only the load curtailed between the Firm Demand and the smaller of the Forecasted Demand and the CBL, provided the Forecasted Demand is greater than the Firm Demand. Hourly Energy Prices and Hourly Capacity Prices will not apply to Reduced Load above the PowerShare Firm Demand during a Curtailment Period.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

POWER FACTOR ADJUSTMENT

The Company will adjust, for power factor, the kWh for any customer operating in parallel, and may adjust the kWh for any other customer served under this schedule. The power factor adjustment may result in a Power Factor Charge, if applicable, as follows:

Power Factor Charge = Sum of Hourly Load Correction Amounts for all hours in the billing period, but not less than zero,

Where:

Hourly Load Correction Amount = Hourly Load Correction kWh x Hourly Price
Hourly Load Correction kWh = [total hourly kWh x (0.85 ÷ hourly power factor)] – total hourly kWh

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each Customer shall enter into a contract to purchase electricity under this schedule for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter, by giving at least sixty (60) days previous notice of such termination in writing.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-Fifth Revised Leaf No. 55
Superseding NC Sixty-Fourth Revised Leaf No. 55

SCHEDULE PG
PARALLEL GENERATION

AVAILABILITY

This Schedule is closed to new customers beginning January 1, 2024.

Available only to non-residential establishments which have generating facilities not in excess of eighty (80) megawatts which are interconnected with the Company's system.

Service under this Schedule shall be used solely by the individual contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

The Customer's interconnected power generating facilities may be operated in parallel with the Company's system. Power delivered under this schedule shall not be used for resale or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Power Company, except at the option of the Company, under special terms and conditions expressed in writing in the contract with the Customer.

The Company will provide service to the Customer's net load (total load less Customer generation) and will purchase excess energy from the Customer when the Customer's generation output exceeds the Customer's load, at the rates shown below. Meters for the measurement of excess energy purchased by the Company under this Schedule shall be equipped with compensation to reflect delivery of such energy to the high voltage side of the transformer installation. This Schedule is not available for purchase by the Company of the entire output of the Customer's generator in excess of auxiliary load.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one metering point, at one delivery point, at one of the following approximate voltages where available, upon mutual agreement:

3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

CHARGES		Interconnected To	
		Transmission System	Distribution System
I.	Basic Customer Charge per month	$ 75.00	$ 75.00
II.	On-Peak Demand Charge per On-Peak month, per kW	$16.51	$19.62

OFFICIAL COPY

SCHEDULE PG
PARALLEL GENERATION

III.	Energy Charges		
	a. All On-Peak Energy per month, per kWh	4.7168¢	4.8292¢
	b. All Off-Peak Energy per month, per kWh	4.4783¢	4.5701¢
IV.	Standby Charge per month, per kW	$1.85	$1.85

CREDITS

Credits for excess energy delivered to the Company are set forth in the most recently approved Schedule PP (NC) Variable Rate Energy Credit applicable to the Customer's generation type.

Sep 26 2023

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh charges shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DEFINITION OF ON-PEAK AND OFF-PEAK PERIODS

On-Peak Period Hours	7:00 a.m. – 11:00 p m. Monday – Friday
Off-Peak Period Hours	All other weekday hours and all Saturday and Sunday hours
On-Peak Months	Billing Months of December, January, February, March, June, July, August, September
Off-Peak Months	Billing Months of April, May, October, November

CONTRACT DEMAND

The Company will require contracts to specify a Contract Demand. The Contract Demand shall be the maximum demand to be delivered under normal conditions to the Customer during the on-peak periods of the On-peak Billing months of December through March and June through September.

DETERMINATION OF DEMAND CHARGES

The On-Peak Demand for billing purposes shall be the largest of the following:

1. The maximum 30-minute demand in the On-Peak Period during the current billing month
2. 75% of the Contract Demand
3. 30 kW

Demand charges are applicable for the billing months of December through March and June through September. Demand charges do not apply in the billing months of October, November, April, or May.

OFFICIAL COPY

Sep 26 2023

SCHEDULE PG
PARALLEL GENERATION

Provision 2. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

DETERMINATION OF STANDBY CHARGES

The Company will require each customer who supplies any portion of their electrical requirements by generating facilities to contract for standby, auxiliary, or breakdown service subject to the following provisions. Customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor, as determined by the Company, are exempted from the Standby Charge.

If applicable, the Standby kW will be based on the nameplate capacity in kilowatts of the Customer's generating facility. However, at the option of the Customer, additional metering facilities will be installed, and for billing purposes, the Standby kW will be based on the Customer's maximum 30-minute demand which has been supplied by the Customer's generating facilities during the previous 12 billing months including the current billing month. If additional metering facilities are installed, they will be subject to a monthly Extra Facilities Charge as set forth in the Company's Service Regulations..

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Schedule is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit an Interconnection Request which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures, and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

INTERCONNECTION FACILITIES CHARGE

The Customer shall be responsible for providing suitable control and protective devices on his equipment to assure no disturbance to other customers of the Company or to the Company itself, and to protect the Customer's facilities from all loss or damage which could result from operation with the Company's system.

The Company will furnish, install, own, and maintain interconnection facilities as necessary for service under this Schedule including:

- Suitable control and protective devices installed on the Company's equipment to allow operation of the Customer's generating facilities (see exception below);
- Metering facilities equipped to prevent reverse registration for the measurement of service under this Schedule; and
- Any other modification to its system required to serve the Customer under this Schedule as required by the Company.

All such interconnection facilities in excess of those required in the absence of the Customer's generating facilities to provide capacity at the level of the Contract Demand shall be subject to a monthly charge under the Extra Facilities provision of the Company's Service Regulations. The Company reserves the right to install, at any time, facilities necessary for the appropriate measurement of service under this Schedule and to adjust the Interconnection Facilities Charge accordingly, solely at the option of the Company.

OFFICIAL COPY

Sep 26 2023

SCHEDULE PG
PARALLEL GENERATION

POWER FACTOR CORRECTION

When the average monthly power factor of the power required by the Customer from the Company is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the maximum integrated on-peak demand in kilowatts or the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor and to adjust the Interconnection Facilities Charge accordingly, solely at the option of the Company.

MINIMUM BILL

Beginning in the 13th full month for new service installations, the minimum monthly bill shall be calculated on the Rate above including the Basic Customer Charge, On-Peak Demand Charge, Energy Charge, Standby Charge, etc., but the Demand Charge component billed during the On-Peak months shall be based on not less than 75% of the Contract Demand. If the Customer's demand measured during normal operating conditions exceeds the Contract Demand, the Company may, at any time, establish the minimum based on the maximum 30-minute demand in the previous 12 billing months including the current billing month.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

Credit billings to the Customer will be credited to the Customer's account, or, at the option of the Customer and upon ten (10) days' prior written notice, shall be payable to the Customer within fifteen (15) days of the date of the bill.

CONTRACT PERIOD

Each customer shall enter into a contract for a minimum original term of five (5) years and thereafter until terminated by giving at least thirty (30) months' previous notice of such termination in writing, but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances.

The Company reserves the right to terminate the Customer's contract under this Schedule at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Schedule or operates his generating facilities in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Schedule, the Customer will be required to pay the Company for the costs due to such early cancellation.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourth Revised Leaf No. 138
Superseding NC Third Revised Leaf No. 138

SCHEDULE SGSTC
SMALL GENERAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

AVAILABILITY

Available to the individual customer with a demand of 75 kilowatts (kW) or less. If the customer's measured demand exceeds 75 kW during any month, the customer will be served under Schedule LGS.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the Company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$21.00
II.	Demand Charges	
	On-Peak Demand* per month, per kW	$3.78
	Max Demand* per month, per kW	$1.51

* For all over 30 kW of Billing Demand. No charge for first 30 kW of Billing Demand.

III.	Energy Charges	
	Critical Peak Energy per month, per kWh	37.9432¢
	On-Peak Energy per month, per kWh	24.0756¢
	Off-Peak Energy per month, per kWh	10.5646¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGSTC
SMALL GENERAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

Discount Energy per month, per kWh 7.2967¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to each of the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF CRITICAL PEAK PRICING

The Company will call up to 20 Critical Peak Days per calendar year. The number of Critical Peak Days permitted annually may be exceeded in the event of a system emergency that is expected to place the Company's ability to provide reliable service to customers at risk.

During Company-designated Critical Peak Days, On-Peak Hours will become Critical Peak Hours. The Company may shift the Critical Peak Hours one hour earlier or later than the regular On-Peak Hours to provide flexibility for system operations; however, the number of Critical Peak Hours per day will remain the same as the number of On-Peak Hours that would have otherwise occurred. Any shift in Critical Peak Hours will be reflected in the customer notification.

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGSTC
SMALL GENERAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

NOTIFICATION OF CRITICAL PEAK PRICING

The Company will notify customers of Critical Peak Days and applicable Critical Peak Hours by 4:00 pm on the prior day. Customers may elect to receive notifications by phone, email and/or text message. The Company will use its best efforts to notify customers by 4:00 pm on the prior day; however, notification of Critical Peak Days may occur at any time, but no later than one hour prior to the Critical Peak period. Receipt of Critical Peak Pricing notification is the Customer's responsibility.

DETERMINATION OF BILLING DEMANDS

I. On-Peak Demand shall be the maximum 30-minute demand in the On-Peak Period during the current billing month.

II. Max Demand shall be the maximum 30-minute demand during the current billing month.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85%, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85% and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least 60 days previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

GENERAL PROVISIONS

Participating customers must provide and maintain internet accessibility, an email address, and/or means to receive phone calls or text messages, as appropriate, at the Customer's expense in order for the Company to provide notification for Critical Peak Pricing.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Nantahala Area Only)

NC Thirty-Second Revised Leaf No. 204
Superseding NC Thirty-First Revised Leaf No. 204

SCHEDULE S
UNMETERED SIGNS

AVAILABILITY

This schedule is closed and not available to new customers or locations not served on this schedule prior to January 1, 2008, in the former Duke Energy Carolinas Nantahala Area and shall remain in effect for customers under continually effective agreements made prior to January 1, 2008.

This Schedule is available for unmetered service to a sign where the customer provides the lights. This Schedule is for "entrance type" signage on the property owned or controlled by the commercial and/or industrial customer in whose name the bill is rendered. Duke Energy Carolinas must be providing general area lighting and secondary wire must be available at the sign location such that no additional transformation is required. The Company and customer must agree in writing to the estimated monthly kWh usage.

MONTHLY RATE

Basic Customer Charge per month	$7.00 per sign
Energy Charge	7.3436 cents per contracted kWh used

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. The Company has the right to suspend service for non-payment of bills in accordance with Rule R12-8 of the Rules and Regulations of the North Carolina Utilities Commission. In addition, any bill not paid on or before the expiration of 25 days from the date of the bill is subject to an additional charge of one percent (1%) per month as provided in Rule R12-9 of the Rules and Regulations of the North Carolina Utilities Commission.

CONTRACT TERM

Service hereunder shall be for a period of not less than one year, except when, in the opinion of the Company, contracts of shorter duration are justified by particular circumstances.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

AVAILABILITY

Available to the individual customer for lighting of outdoor areas at locations on the Company's distribution system. Service under this Schedule may be withheld or discontinued at the option of the Company.

RATE

All-night outdoor lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
		High Pressure Sodium Vapor*			
4,000	21	Post Top (2)	NA	NA	$22.87
9,500	47	Suburban (3)	$14.08	$21.45	$26.07
9,500	47	Urban	$15.88	$23.25	$27.87
13,000	56	Suburban (4) (in suitable mercury fixture)	$15.42	NA	NA
16,000	70	Urban	$17.18	$24.55	$29.17
27,500	104	Urban	$20.33	$27.70	$32.32
50,000	156	Urban	$24.77	$32.14	$36.76
16,000	70	Floodlight	$21.24	$28.61	$33.23
27,500	104	Floodlight	$25.04	$32.41	$27.03
50,000	156	Floodlight	$28.16	$35.53	$40.15
		Metal Halide*			
9,000	43	Urban	$18.23	$25.60	$30.22
40,000	155	Urban	$29.46	$36.83	$41.45
78,000	295	Area	$68.07	$75.44	$80.06
110,000	395	Area	$93.05	$100.42	$105.04
40,000	155	Floodlight	$31.26	$38.63	$43.25
34,000	180	Floodlight (10)	$29.33	$36.70	NA
34,000	180	Floodlight (10)	NA	$40.52	$41.32
110,000	217	Floodlight (half night) (10)	$42.66	$50.03	$54.65
110,000	435	Floodlight (10)	NA	$79.12	NA
110,000	435	Floodlight (10)	$72.68	$80.05	$84.67
		Mercury Vapor*			
4,000	41	Suburban (7)	$12.67	NA	NA
4,000	41	Post Top (2)	$11.64 (5)	NA	$23.63 (6)
4,000	41	Post Top (7)	$15.37	NA	NA
7,500	75	Suburban (3)	$12.74	$20.11	$24.73
7,500	75	Urban (6)	$14.34	$21.71	$26.33
7,500	75	Post Top (7)	$21.90	NA	NA
20,000	152	Urban (6)	$19.73	$27.10	$31.72
		Light Emitting Diode (8) (9)			
3,700	11	Area 30 watts	$9.53	$16.90	$21.52
4,500	14	Area 40 watts	$9.93	$17.30	$21.92
5,500	18	Area 50 watts	$12.56	$19.93	$24.55
8,000	25	Area 70 watts	$12.86	$20.23	$24.85
15,500	40	Area 110 watts	$15.63	$23.00	$27.62
20,000	54	Area 150 watts	$17.44	$24.81	$29.43

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
30,500	79	Area 220 watts	$20.50	$27.87	$32.49
36,000	101	Area 280 watts	$23.39	$30.76	$35.38
44,500	151	Area 420 watts	$49.38	$56.75	$61.37
57,000	179	Area 530 watts	$55.39	$62.76	$67.38
16,500	47	Floodlight 130 watts	$26.74	$34.11	$38.73
33,500	48	Floodlight 260 watts (half night) (10)	$56.25	$63.62	$68.24
33,500	95	Floodlight 260 watts	$57.88	$65.25	$69.87

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture failure and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(2) Luminaire is not available for the lighting of streets, roadways, and other vehicle thoroughfares.

(3) Closed to new installations on or after July 1, 2005.

(4) Closed to new installations on or after September 15, 1985.

(5) Closed to new installations on or after November 12, 1991.

(6) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(7) Closed to new installations.

(8) Light Emitting Diode (LED) luminaires are available for new installations after January 28, 2014, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires and for customer requested replacements of existing high pressure sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(9) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2019. The Company will replace post top mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2024.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) Additional monthly charge for the underground conductor system: $0.07 for each increment of 10 feet, or less, over 150 feet per pole.

(2) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(3) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

OFFICIAL COPY
Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

(4) An underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, the charges under provision (1) of this section will apply in addition to the $4.62 charge.

(5) Additional monthly charge for the underground conductor system for existing pole installations in-service prior to November 12, 1991:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) For non-floodlight luminaires, color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $1.01 per lamp per month. For non-floodlight luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new non-flood luminaires on or after October 1, 2007.

(2) All non-floodlight luminaires will be installed on standard 30-foot wood poles. At Customer request, and for an additional charge, all non-floodlight luminaires can be installed on wood poles larger than the standard 30-foot, if the location permits the use of bucket-type equipment for mounting and servicing: 35-foot pole for 30 cents per month, or 40-foot pole for 41 cents per month.

(3) All luminaires installed on wood poles longer than 40-feet, or structures other than standard wood poles, can be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(4) All non-floodlight luminaires, with brackets longer than 30 inches but not longer than 20 feet, can be installed where use of bucket-type equipment is permitted for an extra charge of 71 cents per month per bracket.

(5) Where two or more luminaires were installed for service before November 12, 1991 on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(6) Luminaire locations shall be designated by the Customer and where only an extension of secondary facilities is required from the nearest distribution source, the rate per luminaire as stated above shall apply. When the number of required poles exceeds the number of luminaires requested, a monthly charge not less than $1.72 per standard wood pole shall apply for luminaires installed for service before November 12, 1991. A monthly charge of $7.37 per standard wood pole shall apply for luminaires installed for service after November 12, 1991. When any installation requires an extension of

OFFICIAL COPY

Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

primary facilities solely to serve the luminaires, an additional monthly charge equal to 1.0% of the estimated cost of the primary extension shall apply. Should any installation require guying of secondary facilities, a charge of 61 cents per month per guy shall apply.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires installed by the Company as standard, post top and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated by the Company as decorative or nonstandard, and for all standard luminaires mounted on supports other than standard wood poles or other non-standard supports, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

AVAILABILITY

Available for the purpose of lighting streets, highways, parks, and other public places for Municipal, County, State, and Federal Governments, at locations inside or outside municipal limits on the Company's distribution system. This Schedule is not available for service to non-governmental entities.

RATE

All-night street lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		High Pressure Sodium Vapor*			
9,500	47	Suburban (1)	$9.42	NA	NA
9,500	47	Urban	$10.79	NA	NA
13,000	56	Suburban (2) (in suitable mercury fixture)	$10.55	NA	NA
16,000	70	Urban	$11.77	NA	NA
27,500	104	Urban	$14.13	NA	NA
38,000	136	Urban (3) (in suitable mercury fixture)	$15.36	NA	NA
50,000	156	Urban	$17.52	NA	NA
140,000	391	Urban (installed on 55-foot wood pole)	$35.86	NA	NA
		Metal Halide*			
9,000	43	Urban	$17.16	NA	NA
40,000	155	Urban	$21.14	NA	NA
78,000	295	Area	$64.16	NA	NA
		Mercury Vapor*			
4,000	41	Suburban (1)	$6.21	NA	NA
7,500	75	Suburban (1)	$8.42	NA	NA
7,500	75	Urban (4)	$9.67	NA	NA
20,000	152	Urban (4)	$13.73	NA	NA
55,000	393	Urban (4)	$28.45	NA	NA
		Incandescent (5)			
	63	Suburban	$6.09	NA	NA
	63	Post Top	$2.29	NA	NA
		Light Emitting Diode (6) (7)			
3,700	11	Area 30 watts	$7.44	$14.81	$19.43
4,500	14	Area 40 watts	$7.77	$15.14	$19.76
5,500	18	Area 50 watts	$10.13	$17.50	$22.12
8,000	25	Area 70 watts	$10.37	$17.74	$22.36
15,500	40	Area 110 watts	$12.60	$19.97	$24.59
20,000	54	Area 150 watts	$14.07	$21.44	$26.06
30,500	79	Area 220 watts	$16.52	$23.89	$28.51
36,000	101	Area 280 watts	$18.88	$26.25	$30.87
44,500	151	Area 420 watts	$39.80	$47.17	$51.79
57,000	179	Area 530 watts	$56.96	$64.33	$68.95

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		Floodlight Service*			
16,000	70	High Pressure Sodium Vapor	$20.87	$28.24	$32.86
27,500	104	High Pressure Sodium Vapor	$24.60	$31.97	$36.59
50,000	156	High Pressure Sodium Vapor	$27.68	$35.05	$39.67
40,000	155	Metal Halide	$30.72	$38.09	$42.71
34,000	180	Metal Halide (10)	$28.82	$36.19	NA
34,000	180	Metal Halide (10)	NA	$40.01	$40.81
110,000	217	Metal Halide (half night) (10)	$41.92	$49.29	$53.91
110,000	435	Metal Halide (10)	NA	$77.86	NA
110.000	435	Metal Halide (10)	$71.42	$78.79	$83.41
15,000	47	LED 130 watts	$27.50	$34.87	$39.49
30,000	48	LED 260 watts (half night) (10)	$57.84	$65.21	$69.83
30,000	95	LED 260 watts	$59.52	$66.89	$71.51

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture repair and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) Closed to new installations on or after July 1, 2005.

(2) Closed to new installations on or after February 3, 1987.

(3) Closed to new installations on or after November 12, 1991.

(4) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(5) Closed to new installations.

(6) Light Emitting Diode (LED) luminaires are available for new installations, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires, and for customer requested replacements of existing sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(7) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 6 above beginning January 1, 2020 through December 31, 2023.

(8) "Existing Pole", "New Pole" and/or "New Pole Served Underground" rates are applicable for existing pole, new pole and/or new pole served underground installations on or after September 1, 2018. After this date, the "Existing Pole" rates are available only for luminaries attached to poles which are not installed solely to support the luminaire.

(9) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) For non-floodlight underground facilities installed prior to September 1, 2018 or for floodlight underground facilities installed prior to November 12, 1991, the additional monthly charge for the underground conductor system:

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

(2) For non-floodlight underground facilities installed on or after September 1, 2018 or for floodlight underground facilities installed on or after November 12, 1991, an underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, a charge of $0.07 for each increment of 10 feet, or less, over 150 feet will apply in addition to the $4.62 charge. This charge is also applicable to "New Pole Served Underground" rates over 150 feet per pole.

(3) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(4) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3
Leaf No. 131	EDIT-4

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) The installation of luminaires at the standard monthly rates above includes Company-designated standard wood poles.

(a) Wood poles or structures other than Company-designated standard wood poles, may be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(b) The Company's standard metal street lighting pole is closed as of January 1, 2010. An extra monthly charge of $5.41 per month, per pole applies to installations prior to January 1, 2010.

(c) The Company's standard metal mast-arm pole may be installed for an extra monthly charge of $5.41 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole, per month, per pole applies to installations prior to January 1, 2010. The standard metal mast-arm pole without a luminaire is closed as of January 1, 2010. A monthly charge of $7.12 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole applies to installations prior to January 1, 2010.

(d) For non-floodlight luminaires, brackets longer than 12 feet, but not longer than 20 feet can be installed for an additional monthly charge of $4.36.

(2) For non-floodlight luminaires installed outside municipal limits prior to January 1, 2010, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted

OFFICIAL COPY

Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. For floodlight luminaires installed prior to November 12, 1991, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. A monthly charge of $7.37 per pole shall be made for such excess number of poles installed for service on or after January 1, 2010 for non-floodlight luminaries or on or after November 12, 1991 for floodlight luminaires in or outside municipal limits.

(3) When the installation requested requires a primary extension solely to serve the luminaires, an additional monthly charge of 1.0% of the estimated cost of the primary extension will be made. For poles to support non-floodlight luminaires installed outside municipal limits prior to January 1, 2010 and for poles to support floodlight luminaires, should the installation of secondary facilities include downguys or spanguys, a charge of $0.61 per month per guy shall be made.

(4) Standard wood poles installed prior to January 1, 2010 may be provided for $1.72 per pole per month plus $.61 per month per guy for downguys or spanguys, if needed, when provided to solely support traffic signals. Standard wood poles installed January 1, 2010 and after, may be provided for $7.37 per pole per month when provided solely to support traffic signals.

(5) Color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $0.71 per lamp per month. For luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new luminaires on or after October 1, 2007.

(6) For non-floodlight luminaires installed prior to January 1, 2010, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72. For floodlight luminaires installed prior to November 12, 1991, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(7) For non-floodlight LED and floodlight luminaires, the Customer may, at its option, prepay the initial capital cost of poles and underground wiring, in which case the monthly rate per luminaire shall be the Existing Pole Rate shown above.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires designated as standard by the Company and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated as decorative or non-standard by the Company, and for all standard luminaires mounted on supports other than standard wood poles, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Twenty-Eighth Revised Leaf No. 35
Superseding NC Twenty-Seventh Revised Leaf No. 35

SCHEDULE NL
NONSTANDARD LIGHTING SERVICE
(PILOT)

AVAILABILITY

This Schedule is closed and not available for service to new installations after August 1, 2018 but remains in effect for continually effective agreements under this Schedule. Available, at the Company's option, for outdoor lighting applications not offered under one of the Company's standard lighting tariffs which may include new technologies. The type of luminaire(s) and services provided will be included in the contract with the Customer. This schedule is available as a pilot.

RATE

The monthly rate for this service will be determined as follows:

Monthly Services Payment = Levelized Capital Cost + Expenses + [Energy x 4.9797¢ per kWh]

Where:

Levelized Capital Cost is equal to the present value of all estimated capital related cash flows for a period corresponding to the time of engineering, design and installation of equipment through the term of the contract, including the cost of cutting and replacing of pavement in excess of one per luminaire, adjusted to a pre-tax amount and converted to a uniform monthly payment for the term of the contract. The estimated capital cash flows shall include installed cost of equipment, contingency allowances, property taxes, salvage value, adjustment to reflect additional supporting investment of general plant nature, and income tax impacts.

Expenses shall equal the present value of estimated expenses associated with the support and maintenance of the equipment, adjusted to a pre-tax amount and converted to a uniform monthly payment for the term of the contract. The estimated expenses shall include administrative and general expenses, expenses for labor and materials related to operations and maintenance, third party expenses for operations and maintenance, warranties, insurance, annual costs associated with working capital, other costs related to the operation and support of the installation, and income tax impacts.

The after tax cost of capital from the Company's most recent general rate case will be used to convert present values to uniform monthly payments.

Energy is the equal to the estimated average kilowatt hours used per month under this agreement.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

OPTIONAL PREPAYMENT OF LEVELIZED CAPITAL COST

The Customer may, at its option, prepay the Levelized Capital Cost, in which case the monthly rate per luminaire shall be the Expenses plus Energy charges. The prepayment amount shall be the net present value of the after-tax cash flow of the Levelized Capital Cost using the current after-tax cost of capital.

OFFICIAL COPY

Sep 26 2023

SCHEDULE NL
NONSTANDARD LIGHTING SERVICE
(PILOT)

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract for Nonstandard Lighting Service from the Company for an original term of five (5) years, after which agreement terminates unless the customer enters into a new five (5) year contract for Nonstandard Lighting Service. In the event of early termination of an Agreement under this program, the Customer may be required to pay the Company a termination fee equal to the net present value of the Monthly Service Fee, less the Energy Charge, for the remainder of the term of the contract. However, if any successor customer has requested service supplied under this schedule prior to the effective date of the termination, the termination charge will be waived or reduced based on the contract of the successor customer.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC

NC Fifty-Sixth Revised Leaf No. 99
Superseding NC Fifty-Fifth Revised Leaf No. 99

SUMMARY OF RIDER ADJUSTMENTS

The following is a summary of Rider Adjustments that must be added to the bill calculated on the applicable rate schedule in order to compute the bill. The factors shown below include revenue-related taxes and regulatory fees. More specific information concerning these Riders is contained in the applicable Rider listed below.

Residential Schedules RS, RE, ES, RT, RSTC, RETC	**cents/kWh**	**Effective Date**
Fuel Cost Adjustment Rider	0.4870	2/20/23
Energy Efficiency Rider	0.3389	1/1/23
Existing DSM Program Costs Adjustment Rider	-0.0020	7/1/22
BPM Prospective Rider	-0.0120	7/1/22
BPM True-Up Rider	-0.0031	7/1/22
CPRE Rider	0.0369	9/1/22
EDIT-3 Rider	-0.1894	10/1/21
EDIT-4 Rider	-0.5074	2/20/23
Customer Assistance Recovery Rider	0.1246	2/20/23
TOTAL cents/kWh	**0.2735**	

General Service Schedules SGS, BC, LGS, HLF, TS, S, OPT-V, PG, SGSTC	**cents/kWh**	**Effective Date**
Fuel Cost Adjustment Rider	0.6263	2/20/23
Energy Efficiency Rider	0.6242	1/1/23
Existing DSM Program Costs Adjustment Rider	-0.0020	7/1/22
BPM Prospective Rider	-0.0120	7/1/22
BPM True-Up Rider	-0.0031	7/1/22
CPRE Rider	0.0348	9/1/22
EDIT-3 Rider	-0.1132	10/1/21
EDIT-4 Rider	-0.3032	2/20/23
TOTAL cents/kWh	**0.8518**	

Lighting Schedules PL, OL, NL	**cents/kWh**	**Effective Date**
Fuel Cost Adjustment Rider	0.6263	2/20/23
Energy Efficiency Rider	0.0000	1/1/23
Existing DSM Program Costs Adjustment Rider	-0.0020	7/1/22
BPM Prospective Rider	-0.0120	7/1/22
BPM True-Up Rider	-0.0031	7/1/22
CPRE Rider	0.0348	9/1/22
EDIT-3 Rider	-0.4875	10/1/21
EDIT-4 Rider	-1.3488	2/20/23
TOTAL cents/kWh	**-1.1923**	

Industrial Schedules I, OPT-V, PG	**cents/kWh**	**Effective Date**
Fuel Cost Adjustment Rider	0.5734	2/20/23
Energy Efficiency Rider	0.6242	1/1/23
Existing DSM Program Costs Adjustment Rider	-0.0020	7/1/22
BPM Prospective Rider	-0.0120	7/1/22
BPM True-Up Rider	-0.0031	7/1/22

* Qualifying customers who have opted out of the Company's Energy Efficiency and/or Demand Side Management Programs are not subject to the applicable Energy Efficiency Rider charges based on the individual customer's opt-out election. Refer to Rider EE to determine the Rider EE amount, if any, applicable to customers who have opted out.

OFFICIAL COPY
Sep 26 2023

SUMMARY OF RIDER ADJUSTMENTS

CPRE Rider	0.0339	9/1/22
EDIT-3 Rider	-0.0886	10/1/21
EDIT-4 Rider	-0.2369	2/20/23
TOTAL cents/kWh	**0.8889**	

Schedule HP – General Service	**cents/kWh Baseline**	**cents/kWh Incremental**	**Effective Date**
Fuel Cost Adjustment Rider	0.6263	0.0000	2/20/23
Energy Efficiency Rider	0.6242	0.6242	1/1/23
Existing DSM Program Costs Adjustment Rider	-0.0020	-0.0020	7/1/22
BPM Prospective Rider	-0.0120	-0.0120	7/1/22
BPM True-Up Rider	-0.0031	-0.0031	7/1/22
CPRE Rider	0.0348	0.0348	9/1/22
EDIT-3 Rider	-0.1132	-0.1132	10/1/21
EDIT-4 Rider	-0.3032	-0.3032	2/20/23
TOTAL cents/kWh	**0.8518**	**0.2255**	

Schedule HP – Industrial	**cents/kWh Baseline**	**cents/kWh Incremental**	**Effective Date**
Fuel Cost Adjustment Rider	0.5734	0.0000	2/20/23
Energy Efficiency Rider	0.6242	0.6242	1/1/23
Existing DSM Program Costs Adjustment Rider	-0.0020	-0.0020	7/1/22
BPM Prospective Rider	-0.0120	-0.0120	7/1/22
BPM True-Up Rider	-0.0031	-0.0031	7/1/22
CPRE Rider	0.0339	0.0339	9/1/22
EDIT-3 Rider	-0.0886	-0.0886	10/1/21
EDIT-4 Rider	-0.2369	-0.2369	2/20/23
TOTAL cents/kWh	**0.8889**	**0.3155**	

* Qualifying customers who have opted out of the Company's Energy Efficiency and/or Demand Side Management Programs are not subject to the applicable Energy Efficiency Rider charges based on the individual customer's opt-out election. Refer to Rider EE to determine the Rider EE amount, if any, applicable to customers who have opted out.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Forty-First Revised Leaf No. 60
Superseding NC Fortieth Revised Leaf No. 60

RIDER FCAR
FUEL COST ADJUSTMENT RIDER

APPLICABILITY

Service supplied under the Company's rate schedules are subject to approved fuel charge adjustments, if any, over or under the Rate set forth in the approved rate schedules. Adjustments are made pursuant to North Carolina General Statute 62-133.2 and North Carolina Utilities Commission Rule R8-55 as ordered by the North Carolina Utilities Commission.

BASE FUEL COSTS

Effective February 20, 2023, the Base Fuel Costs established in Docket No. E-7, Sub 1276 are: Residential: 2.0003¢ per kilowatt-hour, General Service/Lighting: 1.8217¢ per kilowatt-hour and Industrial: 1.8396¢ per kilowatt-hour. These amounts are included in the energy charges of the Company's rate schedules.

FUEL COST ADJUSTMENT AND EXPERIENCE MODIFICATION FACTOR

All service supplied under the Company's rate schedules is subject to an increment or decrement per kilowatt-hour as set forth below. This adjustment is not included in the rate schedules of the Company and therefore must be applied to the bill as calculated under the applicable rate.

RESIDENTIAL SERVICE		Fuel and Fuel Related Costs	
Adjustment to Residential		0.0000	¢/kWh
Experience Modification Factor & Interest	+	0.4863	¢/kWh
Net Fuel Rider Factor		0.4863	¢/kWh
Regulatory Fee Multiplier	×	1.001402	
Fuel Cost Adjustment Factor		0.4870	¢/kWh

GENERAL SERVICE AND LIGHTING		Fuel and Fuel Related Costs	
Adjustment to General Service and Lighting		0.0000	¢/kWh
Experience Modification Factor& Interest	+	0.6254	¢/kWh
Net Fuel Rider Factor		0.6254	¢/kWh
Regulatory Fee Multiplier	×	1.001402	
Fuel Cost Adjustment Factor		0.6263	¢/kWh

INDUSTRIAL SERVICE		Fuel and Fuel Related Costs	
Adjustment to Industrial		0.0000	¢/kWh
Experience Modification Factor & Interest	+	0.5726	¢/kWh
Net Fuel Rider Factor		0.5726	¢/kWh
Regulatory Fee Multiplier	×	1.001402	
Fuel Cost Adjustment Factor		0.5734	¢/kWh

OFFICIAL COPY

Sep 26 2023

RIDER EE
ENERGY EFFICIENCY RIDER

APPLICABILITY

Service supplied under the Company's rate schedules is subject to approved adjustments for new energy efficiency and demand-side management programs approved by the North Carolina Utilities Commission (NCUC). The Rider Adjustments are not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate.

As of January 1, 2023, cost recovery under Rider EE consists of the four-year term program, years 2014-2017, as well as rates under the continuation of that program for years 2018-2023 as outlined below. This Rider applies to service supplied under all rate schedules, except rate schedules OL, PL and NL for program years 2017-2023.

GENERAL PROVISIONS

This Rider will recover the cost of new energy efficiency and demand-side management programs beginning January 1, 2014, using the method approved by the NCUC as set forth in Docket No. E-7, Sub 1032, Order dated October 29, 2013, and as revised by Docket No. E-7, Sub 1130, Order dated August 23, 2017, and Docket No. E-7, Sub 1032, Order dated October 20, 2020.

TRUE-UP PROVISIONS

Rider amounts will initially be determined based on estimated kW and kWh impacts related to expected customer participation in the programs, and will be trued-up as actual customer participation and actual kW and kWh impacts are verified. If a customer participates in any vintage of programs, the customer is subject to the true-ups as discussed in this section for any vintage of programs in which the customer participated.

RIDER EE OPT OUT PROVISION FOR QUALIFYING NON-RESIDENTIAL CUSTOMERS

The Rider EE increment applicable to energy efficiency programs and/or demand-side management programs will not be applied to the energy charge of the applicable rate schedule for customers qualified to opt out of the programs where:

a. The customer has notified the Company that it has implemented, or has plans for implementing, alternative energy efficiency measures in accordance with quantifiable goals.
b. Electric service to the customer must be provided under:
    1. An electric service agreement where the establishment is classified as a "manufacturing industry" by the Standard Industrial Classification Manual published by the United States Government and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes. Additionally, all other agreements billed to the same entity associated with the manufacturing industry located on the same or contiguous properties are also eligible to opt out.
    2. An electric service agreement for general service as provided for under the Company's rate schedules where the customer's annual energy use is 1,000,000 kilowatt hours or more. Additionally, all other agreements billed to the same entity with lesser annual usage located on the same or contiguous properties are also eligible to opt out.

The following additional provisions apply for qualifying customers who elect to opt out:

For customers who elect to opt out of energy efficiency programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's energy efficiency programs each calendar year only during the annual two-month enrollment period between November 1 and December 31 immediately prior to a new Rider EE becoming effective on January 1. (Qualifying new customers have sixty days after beginning service to optout.)
- Customers may not opt out of individual energy efficiency programs offered by the Company. The choice to opt out applies to the Company's entire portfolio of energy efficiency programs.
- If a customer participates in any vintage of energy efficiency programs, the customer, irrespective of future opt out decisions, remains obligated to pay the remaining portion of the lost revenues for each vintage of energy efficiency programs in which the customer participated.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's energy efficiency programs during the first 5 business days of

OFFICIAL COPY

Sep 26 2023

RIDER EE
ENERGY EFFICIENCY RIDER

March each calendar year. Customers making this election will be back-billed retroactively to the effective date of the new Rider EE.

For customers who elect to opt out of demand-side management programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's demand-side management program during the enrollment period between November 1 and December 31 immediately prior to a new Rider EE becoming effective on January 1 of the applicable year. (Qualifying new customers have sixty days after beginning service to opt out.)
- If a customer elects to participate in a demand-side management program, the customer may not subsequently choose to opt out of demand-side management programs for three years.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's demand-side management program during the first 5 business days of March each calendar year. Customers making this election will be back-billed to the effective date of the new Rider EE.

Any qualifying non-residential customer that has not participated in an energy efficiency or demand-side management program may opt out during any enrollment period, and has no further responsibility to pay Rider EE amounts associated with the customer's opt out election for energy efficiency and/or demand-side management programs.

ENERGY EFFICIENCY RIDER ADJUSTMENTS (EEA) FOR ALL PROGRAM YEARS

The Rider EE amounts applicable to the residential and nonresidential rate schedules for the period January 1, 2023 through December 31, 2023 including utility assessments are as follows:

Residential	
Vintage 2018[1], 2019[1], 2020[1], 2021[1]	(0.0903) ¢ per kWh
Vintage 2020[2], 2021[2], 2022[2], 2023[2]	0.4292 ¢ per kWh
Total Residential Rate	0.3389 ¢ per kWh
Nonresidential	
Vintage 2018[3]	
Energy Efficiency	(0.0021) ¢ per kWh
Demand Side Management	(0.0002) ¢ per kWh
Vintage 2019[3]	
Energy Efficiency	0.0064 ¢ per kWh
Demand Side Management	0.0003 ¢ per kWh
Vintage 2020[3]	
Energy Efficiency	0.0247 ¢ per kWh
Demand Side Management	(0.0002) ¢ per kWh
Vintage 2021[3]	
Energy Efficiency	(0.0162) ¢ per kWh
Demand Side Management	(0.0173) ¢ per kWh
Vintage 2022[3]	
Energy Efficiency	0.0995 ¢ per kWh
Demand Side Management	0.0000 ¢ per kWh
Vintage 2023[3]	
Energy Efficiency	0.4323 ¢ per kWh
Demand Side Management	0.0970 ¢ per kWh
Total Nonresidential Rate	0.6242 ¢ per kWh

OFFICIAL COPY

Sep 26 2023

RIDER EE
ENERGY EFFICIENCY RIDER

[1] Includes the true-up of program costs, shared savings and lost revenues from Vintages 2018, 2019, 2020 and 2021
[2] Includes prospective component of Vintages 2020, 2021, 2022 and 2023
[3] Not Applicable to Rate Schedules OL, PL and NL

Each factor listed under Nonresidential is applicable to nonresidential customers who are not eligible to opt out and to eligible customers who have not opted out. If a nonresidential customer has opted out of a Vintage(s), then the applicable energy efficiency and/or demand-side management charge(s) shown above for the Vintage(s) during which the customer has opted out will not apply to the bill.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Nineteenth Revised Leaf No. 64
Superseding NC Eighteenth Revised Leaf No. 64

RIDER EDPR
EXISTING DSM PROGRAM COSTS ADJUSTMENT RIDER

APPLICABILITY

Service supplied under the Company's rate schedules is subject to approved Demand Side Management (DSM) program costs adjustments, if any, over or under the rate incorporated in the approved rate schedules.

EXISTING DSM PROGRAM RATE ADJUSTMENTS

The Commission has ordered effective for service rendered on and after January 1, 2008 that such an adjustment shall be included in the Company's rate schedules and an appropriate existing DSM program costs adjustment rider be filed together with the rate schedules to implement the changes to the existing DSM program costs components.

BASE EXISTING DSM PROGRAM COSTS

The Base Existing DSM Program Costs amount established effective February 20, 2023 in Docket No. E-7, Sub 1276 is 0.0045 cents per kilowatt-hour (¢/kWh).

EXISTING DSM PROGRAM COST ADJUSTMENT FACTOR

A rider adjustment will be applied to the energy charges of all NC Retail rate schedules in an amount to the nearest one ten-thousandth of a cent, as determined by the following formula, to the extent determined reasonable and proper by the Commission. This adjustment is not included in the rate schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate.

$$A = D / S$$

Where:

A = Existing DSM Program Costs Rate Adjustment per kilowatt hour applied to the applicable base rates rounded to the nearest one ten-thousandths of a cent

D = DSM deferral account balance for the period calculated as (((C × NC Allocation Factor) – E) + R)

Where:

C = Program costs from existing DSM programs as defined in Docket Nos. E-7, Sub 487, E-100, Sub 64, and E-100, Sub 75

NC Allocation Factor = NC Retail summer coincident peak / Total system summer coincident peak from current Cost of Service Study

E = Base Existing DSM Program Costs established February 20, 2023 in Docket No. E-7, Sub 1276 of 0.0045 ¢/kWh, multiplied by actual NC Retail kWh sales for the applicable period

R = Return calculated by applying, on a monthly basis, the net-of-tax overall rate of return approved in the last general rate case and compounding annually

S = Projected Sales, defined as projected North Carolina Retail jurisdictional kilowatt hour sales from all classes of customers for the applicable July 1 – June 30 rider period

		Effective July 1, 2022	
Change in Existing DSM Costs		-0.0020	¢/kWh
Regulatory Fee Multiplier	×	1.001302	
Change in Rates		-0.0020	¢/kWh

OFFICIAL COPY

Sep 26 2023

RIDER EDPR
EXISTING DSM PROGRAM COSTS ADJUSTMENT RIDER

The appropriate regulatory fee will be applied to rate adjustments approved under this Rider. The rider calculation will be subject to appropriate modification to reflect changes in income tax laws or regulations, subject to Commission approval.

Beginning in 2009, the Company shall file the Existing DSM Program Costs Adjustment Rider on April 1 of each year following the calendar year under consideration, to be effective July 1 of that year.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

RIDER NM
NET METERING

AVAILABILTY

Available to residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, micro-hydro or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's distribution system.

This Rider is not available to new nonresidential applications on and after January 1, 2024. Nonresidential customers may continue to receive service under this Rider until December 31, 2033 and then must transition to receive service under Rider NSC or another applicable rider.

GENERAL PROVISIONS

1. To qualify for service under this Rider, a residential Customer may be served on any residential rate schedule. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.
2. To qualify for service under this Rider, a nonresidential Customer may be served under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the Customer's Contract Demand or 1000 kW, whichever is less.
3. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kilowatt hours supplied by the Company, plus any demand or other charges under the applicable rate schedule. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity in kilowatt hours supplied by the utility during a monthly billing period, the Customer-Generator shall be credited for the excess kilowatt hours generated during that billing period. Charges or credits will be determined using the appropriate energy rates of the applicable rate schedule as further outlined in the RATE paragraph below.
4. All other provisions of the applicable rate schedule including, but not limited to, Determination of Billing Demand, Determination of On-Peak, Off-Peak, and Discount Hours, Contract Demand, Approved Fuel Charge Adjustments, etc. will apply to service supplied under this Rider.
5. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.
6. Customers served under this Rider are not eligible to participate in NC GreenPower.
7. For any customer receiving service under a non-time of use demand rate schedule, any renewable energy credits (RECs) shall be retained by the Company.

RATE

The rate shall be based on the applicable rate schedule, and the monthly bill shall be determined as follows:

I. The Basic Customer Charge shall be the Basic Customer Charge from the applicable rate schedule.

II. The Demand Charge shall be determined from the applicable schedule as appropriate.

III. Energy Charges (or Credits) shall be based on the net kilowatt hours purchased from or delivered to the Company for the bill month. For any bill month during which the Energy Charges are a net credit, the respective Energy Charges for the month shall be zero. Any Energy Credits shall carry forward on following month's bill. If the customer is on a time of use rate, the Energy Credits shall carry forward by first applying excess On-Peak kWh against On-Peak kWh charges and excess Off-peak kWh against Off-peak kWh charges, then applying any remaining On-Peak kWh against any remaining Off-Peak kWh charges. Effective with the seasonal rate change each year, any accrued credit not used

OFFICIAL COPY

Sep 26 2023

RIDER NM
NET METERING

to reduce billed kWh usage shall be reset to zero each April 30th. Excess energy delivered prior to April 30th will only be used to reduce usage by Company prior to April 30th. Credits shall not offset the Basic Customer Charge or the Demand Charge.

IV. A Standby Charge of $1.85 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Basic Customer Charge plus, if applicable, any of the following charges: Demand Charges, the Standby Charge, and the Extra Facilities Charge.

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt demand delivered by the Company to the Customer, and to measure the net kilowatt-hours purchased by the Customer or delivered to the Company. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

OFFICIAL COPY

Sep 26 2023

RIDER NM
NET METERING

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY
Sep 26 2023

RIDER SCG
SMALL CUSTOMER GENERATOR

AVAILABILITY

Available, at the Company's option, for residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, hydroelectric or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point interconnected with and operated in parallel with the Company's system. The Customer's generation system will be used to offset the Customer's energy and if applicable, demand requirements, supplied by the Company to the Customer. The Customer will be billed for all energy purchased from the Company under the applicable rate schedule and the excess energy will be purchased by the Company at the credit rate listed below. The Company reserves the right to limit the number of Customers allowed to interconnect generation systems and equipment on an individual electric circuit or substation. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.

This Rider is available to Customers who install electric energy systems and contract with the Company for service under this Rider subject to the following conditions:

1. Residential Customers

   To qualify for service under this Rider, a residential Customer must be receiving service under one of the Company's residential service schedules. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.

2. Nonresidential Customers

   To qualify for service under this Rider, a nonresidential Customer must be receiving service under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed Customer's Contract Demand or 1000 kW, whichever is less. The Contract Demand shall be the maximum demand to be delivered under normal conditions to the Customer excluding output from the Customer's installed electric energy system.

RATE

I. The applicable rate schedule for energy delivered to the Customer, and demand if applicable, shall be the rate schedule for which the Customer qualifies and / or selects for the Customer's class of service.

II. The following charges and credits will be added to the Customer's bill calculated under Paragraph I. above:

CHARGES

Supplemental Basic Customer Charge per month:	$3.92
Standby Charge per month, if applicable:	$1.85
(Refer to Determination of Standby Charges section below)	

CREDITS

The Customer will receive credits for all excess energy delivered by the Customer to the Company equal to the most recently approved Schedule PP (NC) Variable Rate Energy Credit applicable to the Customer's generation type (Interconnected to the Distribution System). Unless otherwise specified in the Company's contract with the Customer, payment of credits under this Schedule do not convey to the Company the right to renewable energy credits (RECS) associated with the energy delivered to the Company by the Customer.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Minimum Bill calculated from the Rate Schedule with which this Rider is used, plus the Supplemental Basic Customer Charge, plus, if applicable, the Standby Charge and the monthly Extra Facilities charge.

OFFICIAL COPY
Sep 26 2023

RIDER SCG
SMALL CUSTOMER GENERATOR

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt-hours delivered by the Company to the Customer, and if applicable, the kilowatt demand. The Company will also furnish, install, own and maintain metering equipment to measure the kilowatt-hours delivered from the Customer to the Company. The Customer's service will be metered with a single, bi-directional meter, which records independently the flow of electricity in each direction through the meter. The Company may require a contribution in aid of construction if it is required to provide to the Customer a metering installation that is deemed to be economically infeasible. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

DETERMINATION OF STANDBY CHARGES

The Standby Charge shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

DEFINITION OF "NAMEPLATE RATING"

The term "Nameplate Rating" shall mean the maximum electrical output capability of the Customer's generation system and equipment at any time.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor and to impose an Extra Facilities Charge accordingly, solely at the option of the Company. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

OFFICIAL COPY

Sep 26 2023

RIDER SCG
SMALL CUSTOMER GENERATOR

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing. The Company reserves the right to offer or require a contract for a longer original term of years, as specified in the individual contract with the customer, when justified by the circumstances.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY

Sep 26 2023

RIDER PS
POWERSHARE NONRESIDENTIAL LOAD CURTAILMENT

AVAILABILITY

Available on a limited and voluntary basis, at the Company's option to nonresidential customers receiving concurrent service from the Company on Schedule LGS, HLF, I, OPT-V and HP; however, customers on Schedule HP are eligible only for the Mandatory Curtailment Option. The Company shall limit the acceptance of contracts under the Mandatory Curtailment and Generator Curtailment Option to a collective total of 1,500,000 KW of Maximum Curtailable Demand on the Company's system.

GENERAL PROVISIONS

Under this Rider the Customer receives credits when, at the Company's request, the Customer agrees to reduce and maintain his load to a level specified in the individual contract, or as nominated on a per event basis, or transfers load to a standby generator, under one of the curtailment options below. The provisions of this Rider apply in addition to the stated provisions of the Customer's rate schedule.

Service under the Mandatory or Voluntary options of this Rider will not begin until, or unless the Company has satisfactory interval load data for the purposes of establishing the Forecasted Demand.

Continued service under this Rider is subject to satisfactory performance by the Customer, as determined by the Company, in response to the Company's request for curtailment.

DEFINITIONS

Contract Demand: The Contract Demand is the maximum kilowatt demand which the Company shall be required to supply to the Customer.

Maximum Curtailable Demand: The Maximum Curtailable Demand is either (a) that portion of the Contract Demand which the Company will supply to the Customer at all times except during Curtailment Periods under the Mandatory or Voluntary Curtailment Option or (b) the capacity the Customer agrees to transfer from the Company's source to the standby generator during Curtailment Periods under the Generator Curtailment Option. The customer will be required to curtail at least 100 kW during Curtailment Periods under the Mandatory or Voluntary Curtailment Option. The customer will be required to transfer at least 100 kW during Curtailment Periods and Tests under the Generator Option

Firm Demand: The Firm Demand, which may be specified at different values for the Summer months of June through September and the Winter months of October through May, is that portion of the Contract Demand which the Company will supply to the Customer without limitation on the periods of availability For customers served on Schedule HP, the Firm Demand must be less than the Customer Baseline (CBL).

Forecasted Demand: The Forecasted Demand is the kW per hour which the customer would be expected to register absent a Curtailment Period and is used to determine the Energy Credits applicable under the Mandatory or Voluntary Curtailment Option.

Curtailment Period: A Curtailment Period is that interval of time, initiated and terminated by the Company, (a) during which the participating customer will require service at no more than the applicable Firm Demand under the Mandatory or Voluntary Curtailment Option, or (b) during which the Customer is requested to offset load from the Company's source by transferring load to the Customer's engine/generator unit under the Generator Curtailment Option.

Exposure Period: The Exposure Period is that period of time within the month corresponding to the weekday peak demand periods and during which curtailment under these provisions is most likely to occur. Specifically, the Exposure Period for the purpose of computing monthly credits is defined as follows:

Summer Months of June through September
1:00 p m. to 9:00 p.m., Monday through Friday

Winter Months of October through May
6:00 a m. to 1:00 p m., Monday through Friday

OFFICIAL COPY

Sep 26 2023

RIDER PS
POWERSHARE NONRESIDENTIAL LOAD CURTAILMENT

MANDATORY CURTAILMENT OPTION

GENERAL PROVISIONS

The Company's request to curtail service under this option may be at any time the Company has capacity constraints, including generation, transmission or distribution capacity constraints or reactive power concerns. The Company, at its sole discretion, may limit requests for curtailment to certain groups of customers for valid reasons.

Under this option the customer agrees to reduce and maintain load to the Firm Demand specified in the contract. Customers served under the Mandatory Curtailment Option may also contract for service under the Voluntary Curtailment Option, but may not contract under the Generator Curtailment Option.

The Company reserves the right to test the provisions of this Rider twice per year, and shall give advance notice of any test to customers served under this Rider.

RATE

Facilities Fee $ 40.00 per month

Credits*

1. Capacity Credit

   Each month, a determination of the curtailable capacity available to the Company during the Exposure Period will be made in order to compute a credit under the Mandatory Curtailment Option. The resulting amount will be the Effective Curtailable Demand (ECD) and shall not be less than zero. The monthly Capacity Credit is equal to the ECD X $3.50/kW.

2. Energy Credit

   During any month when curtailment is requested, the Customer will also receive an energy credit of $.10 per kWh for the energy curtailed between the Firm Demand and the Forecasted Demand during a Curtailment Period.

   * HP customers see Schedule HP, Provision For Customers Served Under Rider PS

Penalty and Penalty Computation

If the Customer fails to reduce and maintain load at, or below the Firm Demand during any Curtailment Period, a penalty will be applied to the Customer's account for the month of occurrence at the rate of $2.00 per kWh for all kWh used above the Firm Demand.

CONTROL NOTICES AND LIMITATIONS

The Customer shall be notified of all initiations of Curtailment Periods at least thirty (30) minutes prior to such times. The Company may invoke Curtailment Periods for not more than 100 hours in any year. Further, the Company shall have the right to invoke a Curtailment Period at any time, subject to a maximum duration of 10 hours in any calendar day, which may be extended only by mutual agreement with the Customer.

VOLUNTARY CURTAILMENT OPTION

GENERAL PROVISIONS

The Company's request to curtail service under the Voluntary Curtailment Option may be at any time. Under this option, the customer agrees, on a per event basis, to reduce load to a Firm Demand. Customers served under the Voluntary Curtailment Option may also contract for service under the Mandatory Curtailment Option, but may not contract under the Generator Curtailment Option.

Customers who agree to curtail load during a Curtailment Period must indicate their desire to participate in the event in accordance with an offer, the details of which will be posted on the Duke Energy web site. The Customer will be required to

OFFICIAL COPY

Sep 26 2023

RIDER PS
POWERSHARE NONRESIDENTIAL LOAD CURTAILMENT

nominate an amount of load to be reduced during the Curtailment Period by establishing a Firm Demand. Customer nominations to curtail load will be accepted on a first-come, first-served basis, and are not firm until the Company has accepted the Customer's nomination. Prior to acceptance of any nomination, the Company may rescind the offer based on customer responses to the offer or due to changes in load conditions.

Under the Voluntary Curtailment Option each participating customer will receive notice of an offer to participate in a curtailment event and such notice will normally be made on the business day immediately prior to the event, but in no case will be less than one hour's notice prior to the beginning of the Curtailment Period. The offer will include the hourly energy prices ($/ kWh) for each hour of the Curtailment Period to be used to determine the Energy Credit.

The Company reserves the right to test the provisions of this Rider twice per year, and shall give advance notice of any test to customers served under this Rider.

RATE

Facilities Fee $ 40.00 per month (see Exception)

Exception. The Facilities Fee does not apply to customers concurrently enrolled under the Mandatory Curtailment Option.

Credits

Energy credits will be paid to the customer for the load curtailed between the Forecasted Demand and the Firm Demand during the Curtailment Period. Energy Credits are not paid for load curtailed below the Firm Demand.

Penalty and Penalty Computation

No payment will be made to the customer during a Curtailment Period unless the customer curtails at least 50% of the nominated load reduction in kilowatt hours.

CONTROL NOTICES AND LIMITATIONS

The Customer shall be notified of all initiations of Curtailment Periods at least thirty (30) minutes prior to such times. The Company may invoke Voluntary Curtailment Periods for an unlimited number of hours per year with no limit on the number of hours in any given calendar day.

CONCURRENT PARTICIPATION IN THE MANDATORY CURTAILMENT AND VOLUNTARY CURTAILMENT OPTION

For Customers participating under both the Mandatory Curtailment Option and the Voluntary Curtailment Option, the following provisions apply:

If prior to or during any Voluntary Curtailment Period the Company invokes a Mandatory Curtailment request, any customer participating in the Voluntary Curtailment Period will receive notice under the Mandatory Curtailment provision and be required to also comply with the Mandatory Curtailment provisions.

If prior to or during any Mandatory Curtailment period the Company invokes a Voluntary Curtailment request, any customer participating in the Mandatory Curtailment Period may receive an offer under the Voluntary Curtailment provision and be allowed to participate in the Voluntary Curtailment Period by providing additional curtailable load beyond their Mandatory Curtailment Option obligation.

Credits and penalties under the Mandatory Curtailment Option take precedence and will be determined before calculating credits under the Voluntary Curtailment Option. For concurrent participation in a Mandatory and Voluntary Curtailment event, the requirement under the Voluntary Curtailment Option to curtail at least 50% of the nominated load will be waived for Mandatory and Voluntary Curtailment Periods that run concurrently. In addition, during a concurrent Mandatory and Voluntary Curtailment Period, credits for the Voluntary Curtailment Period will exclude all load curtailed pursuant to the Mandatory Curtailment provisions.

OFFICIAL COPY

Sep 26 2023

RIDER PS
POWERSHARE NONRESIDENTIAL LOAD CURTAILMENT

GENERATOR CURTAILMENT OPTION

GENERAL PROVISIONS

Contracts for Generator Curtailment will be accepted for a minimum of 100 KW of load to be transferred from the Company's source to the standby generator. Under this option, the customer agrees to provide a source of capacity through load reduction at any time the Company has capacity constraints, including generation, transmission or distribution capacity constraints or reactive power concerns. The Company, at its sole discretion, may limit requests for curtailment to certain groups of customers for valid reasons. The Generator Option is not available to customers served under the Mandatory Curtailment Option or the Voluntary Curtailment Option.

When the Company requests the operation of the standby generator, a watt-hour meter(s) installed on or near the generator bus of the Customer's facility will record the kWh output at the generator. The Customer shall supply a 110-volt continuous source of power for the meter.

The Company will test the operation of the Customer's generator(s) each month, during which time the Customer will transfer load from the Company's source to the generator(s).

RATE

Facilities Fee $ 155.00 per generator meter per month (See Exception)

Exception: If, in the Company's sole opinion, cellular communication technology cannot be utilized to retrieve data from the meter, the customer may still be allowed to participate in the Generator Option by providing, at his expense, a dedicated telephone line. In such a case, the Facilities Fee will be reduced by $30.00.

Credits

1. Capacity Credit

   The Customer will receive a Capacity Credit of $3.50 per kW based on the average capacity generated, based on kilowatt-hours associated with the Maximum Curtailable Demand, during all Curtailment Periods of the current month and all tests.

2. Energy Credit

   The Customer will receive an Energy Credit of $.10 per kWh based on the metered output of the Customer's generator, for all kWh below the Maximum Curtailable Demand**,** during Curtailment Periods of the month and all tests.

Penalty and Penalty Computation

If the Customer fails to transfer to the generator at least 50% of the Maximum Curtailable Demand on a continuous basis~~,~~ during a Curtailment Period**,** a penalty will be applied to the Customer's account for the month of occurrence at the rate of $2.00 per kWh for the difference between the generated capacity and 50% of the Maximum Curtailable Demand.

CONTROL NOTICES AND LIMITATIONS

The Customer shall be notified of all initiations of Curtailment Periods at least fifteen (15) minutes prior to such times. The Company may invoke Curtailment Periods for not more than 100 hours in any year. Further, the Company shall have the right to invoke a Curtailment Period at any time, subject to a maximum duration of 10 hours in any calendar day, which may be extended only by mutual agreement with the Customer.

CONTRACT

MANDATORY CURTAILMENT OPTION AND GENERATOR OPTION

The Mandatory Curtailment Option and Generator Curtailment Option shall have an original minimum term of three (3) years, and shall renew annually thereafter for additional one (1) year terms until terminated by the Customer giving at least sixty

OFFICIAL COPY

Sep 26 2023

RIDER PS
POWERSHARE NONRESIDENTIAL LOAD CURTAILMENT

(60) days' notice of such termination in writing. In the event the Customer requests an amendment to or termination of the service agreement for this rider before the end of the applicable term without providing the required notice, and such termination ceases, or an amendment reduces, the Customer's obligation to curtail load, and the Customer continues the agreement for service under the applicable rate schedule at the same location, the Customer shall pay a termination fee equal to repayment of the credits received during the previous 12 months, plus the monthly Facilities Fee for each month in the remaining term of the agreement The termination fee may be adjusted based on the Maximum Curtailable Demand established in an amended contract by the customer.

VOLUNTARY CURTAILMENT OPTION

The Voluntary Curtailment Option shall have a minimum original term of one (1) year and shall renew annually thereafter until terminated by the Customer giving at least sixty (60) days previous notice of such termination in writing. In the event the Customer requests termination of service under this Rider before the end of the original term, and continues the agreement for service under the applicable rate schedule at the same location the Customer shall pay a termination fee equal to the monthly Facilities Fee for each month in the remaining original term of contract and required notice period

The Company reserves the right to terminate the Customer's Contract under this Rider at any time upon written notice to the Customer for the failure to perform satisfactorily during three or more events as determined by the Company, in response to requests for curtailment, or for violation of any of the terms or conditions of the applicable Schedule or this Rider.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Tenth Revised Leaf No. 80
Superseding NC Ninth Revised Leaf No. 80

RIDER IS
INTERRUPTIBLE POWER SERVICE

This Rider is closed and not available to new customers after February 26, 2009. This Rider remains in effect for nonresidential customers receiving concurrent service from the Company on Schedules LGS, I, HP, or OPT-V, served under continually effectively agreements for this Rider made prior February 26, 2009.

Under this Rider the Customer agrees, at the Company's request, to reduce and maintain his load at a level specified in the individual contract. The Company's request to interrupt service may be at any time the Company has capacity problems. For non-residential customers who enter into a specific contract for interruptible power service, the following provisions apply in addition to the stated provisions of the Customer's rate schedule:

1. General Provisions:

   Contracts for interruptible power service will be accepted by the Company on the basis of successive contracts, and each contract shall specify an interruptible, integrated demand of not more than 50,000 KW to be subject to these provisions. The Company shall limit the acceptance of contracts to a total of 1,100,000 KW of Interruptible Contract Demand on all non-residential schedules on the total system.

   At the option of the Company, Customers may specify that the interruptible load provisions of this Rider be applicable only to a designated portion of the Customer's load which shall be submetered for the purposes of this Rider.

   Duke reserves the right to test the provisions of this Rider once per year if there has not been an occasion during the previous 12 months when the Company requested an interruption. Duke shall give advance notice of any test to customers served under this Rider.

   Continued service under this Rider is subject to satisfactory performance by the Customer, as determined by the Company, in response to the Company's request for interruption.

2. Definitions:

   Contract Demand: The Contract Demand is the maximum kilowatt demand which the Company shall be required to supply to the Customer.

   Interruptible Contract Demand: The Interruptible Contract Demand of not more than 50,000 KW is that portion of the Contract Demand which the Company will supply to the Customer at all times except during Interruption Periods.

   Firm Contract Demand: The Firm Contract Demand, which may be specified at different values for the summer months of June through September and the winter months of October through May, is that portion of the Contract Demand which the Company will supply to the Customer without limitation on the periods of availability.

   Interruption Period: An Interruption Period is that interval of time, initiated and terminated by the Company, during which the Customer will require service at no more than the Firm Contract Demand and the Company is obligated to supply no more than the Firm Contract Demand.

   Penalty Demand: The Penalty Demand is the maximum thirty (30) minute integrated demand required by the Customer during an Interruption Period in excess of the Firm Contract Demand.

   Exposure Period: The Exposure Period is that period of time within the month corresponding to the weekday peak demand periods and during which interruption under these provisions is most likely to occur. Specifically, the Exposure Period for the purpose of computing monthly credits is defined as follows:

   Summer Months of June through September
   1:00 p m. to 9:00 p m., Monday through Friday

   Winter Months of October through May
   6:00 a m. to 1:00 p.m., Monday through Friday

OFFICIAL COPY

Sep 26 2023

RIDER IS
INTERRUPTIBLE POWER SERVICE

For customers served on a time of use rate, the Exposure Period will exclude the following holidays: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving, and Christmas Day.

3. Control Notices and Limitations:

The Customer shall be notified of all initiations of Interruption Periods at least thirty (30)e minutes prior to such times, and the Customer shall fully comply with the Company's requests to reduce and maintain his load to not more than the Firm Contract Demand for the duration of the Interruption Period. The Customer shall be notified of all terminations of Interruption Periods.

The Company may invoke interruption periods for not more than 150 hours in any year. Further, the Company shall have the right to invoke an interruption period at any time, subject to a maximum duration of 10 hours in any calendar day, which may be extended only by mutual agreement with the Customer.

4. Credit and Credit Computation:

Each month, a determination of the interruptible capacity available to the Company will be made in order to compute a credit. All energy consumed at a level above the Firm Contract Demand during the Exposure Period excluding the energy consumed above the Firm Contract Demand during interruption Periods, will be divided by the hours of duration of the Exposure Period excluding the hours of duration of Interruption Periods. The value thus computed will be reduced by the amount of the monthly maximum demand above the Firm Contract Demand which occurs during any Interruption Period. The resulting amount will be the Effective Interruptible Demand (EID) and shall not be less than zero.

The formula for computation is:

$$EID = \frac{KWHEP - KWHIP}{HOURSEP - HOURSIP} - KW\ MP$$

Where: EID = Effective Interruptible Demand

KWHEP = Energy consumed during the Exposure Period above Firm Contract Demand

KWHIP = Energy consumed during Interruption Periods above Firm Contract Demand

HOURSEP = Hours of duration of the Exposure Period

HOURSIP = Hours of duration of the Interruption Periods

KWMP = Maximum monthly Penalty Demand

The amount of credit to be applied to the Customer's account each month will be determined by the formula:

Credit = EID x $3.50 / KWEID

5. Penalty and Penalty Computation:

Should the Customer fail to reduce and maintain his load at, or below the Firm Contract Demand during any Interruption Period, a penalty will be applied to the Customer's account for the month of occurrence. The penalty shall be computed by the formula:

Penalty = ΣKWP x $10.00

Where: ΣKWP = the summation of the Penalty Demands occurring in each and every Interruption Period during the billing period.

OFFICIAL COPY

Sep 26 2023

RIDER IS
INTERRUPTIBLE POWER SERVICE

6. A monthly "Extra Facilities Charge", equal to 1.0% of the installed cost of the extra facilities necessary for interruptible power service, but not less than $25, shall be billed to the Customer in addition to the billing for energy or for demand plus energy, in accordance with the Extra Facilities provisions of the Company's Service Regulations.

7. Contract Period:

   Contracts with interruptible load provisions shall be for a minimum original term of five (5) years and thereafter until terminated, by giving at least twelve (12) months' previous notice of such termination in writing, but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances.

   The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer for failure of the Customer to reduce and maintain his load at or below the Firm Contract Demand during three or more Interruption Periods, or for violation of any of the terms or conditions of the applicable schedule or this Rider. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifth Revised Leaf No. 82
Superseding NC Fourth Revised Leaf No. 82

RIDER SG
STANDBY GENERATOR CONTROL

This Rider is closed and not available to customers on and after January 1, 2024.

This Rider is closed and not available to new customers after February 26, 2009. This Rider remains in effect for nonresidential customers receiving concurrent service from the Company under continually effective agreements for this Rider made prior February 26, 2009.

For customers not receiving concurrent service from the Company on Rider IS who enter into a specific contract for the control of standby generators which are not operated in parallel with the Company's system, the following provisions shall apply:

1. GENERAL DESCRIPTION

   The Standby Generator Control Program is designed to provide a source of capacity through load reduction at any time the Company has capacity problems. The Company reserves the right to test the operation of the Customer's standby generator(s) at any time. When the Company requests the operation of the standby generators, the watt-hour meter(s) installed on or near the generator bus of the Customer's facility will be energized to record the kWh output at the generator. Customers may voluntarily enter into an agreement to participate in Standby Generator Control in one of the following categories:

   Category A.

   Standard Generator Response: The Customers under Category A shall operate their generators on an "as available" basis. Each month the meter(s) will be read and the Customer compensated for the kWh output based on an energy credit which will be updated monthly.

   Category B.

   Guaranteed Generator Response: The Customers under Category B shall operate their generators on a "guaranteed response" basis. Customers shall commit to operate during a minimum of 80% of the Control periods annually, including tests, and to provide at least 200 KW average capacity on an annual basis. Each month the meter(s) will be read. The Customer under Category B will receive a capacity credit based on the average capacity generated during all control periods of the current month. Also, the Customer will be compensated for the kWh output based on an energy credit which will be updated monthly. Continuation under Category B will be based on the Company's annual review of its records for the particular customer's standby generation to determine when actual performance has indicated compliance with the above standards for the twelve-month period.

   Payments will not be rendered unless the Company requested the generator operation and the Customer complied.

2. METERING AND CONTROL EQUIPMENT

   The metering equipment will be furnished, owned, installed and maintained by the Company at no expense to the Customer. The control equipment will also be furnished, owned and maintained by the Company at no expense to the Customer, but Customer must install control equipment and provide required electrical power supply.

3. DEFINITIONS

   Engine/Generator Nameplate Rating: The nameplate rating is the maximum kilowatt output of the engine/generator at full load at its rated power factor as specified on the nameplate.

   Control Period: A control period is that interval of time, initiated and terminated by the Company, during which the Customer is requested to transfer load from the Company's source to the electrical distribution system supplied by the engine/generator unit. No control period shall be of more than ten (10) hours duration in any calendar day.

   Notice of Control: The Customer shall be notified of the start and end times for all initiations of Control Periods at least ten (10) minutes prior to such times. The remote control signal shall be initiated at the designated start and end times.

OFFICIAL COPY

Sep 26 2023

RIDER SG
STANDBY GENERATOR CONTROL

4. METER READING
Each month, the installed watt-hour meter(s) shall be read for purposes of computing a payment. In the event that a Control Period is in progress, the reading of the meter(s) shall be delayed until after the Control Period has ended.

5. EQUIPMENT INSPECTION
At periodic intervals, the Company will inspect each generator metering and control system installation at the Customer's facility.

6. BASIS OF MONTHLY CREDIT
Each month, an energy credit will be computed in accordance with fuel oil price quotations from vendors for Company stations with combustion turbines.

7. MONTHLY CREDIT NOTIFICATION
Notification of the energy credit per kWh and the monthly period for which it is applicable shall be provided to each participating Customer no later than the last business day of the month preceding the application period.

8. COMPUTATION OF THE MONTHLY PAYMENT
Following the reading of the standby generator meter(s) each month, the amount of monthly payment for each participating Customer shall be computed as follows:

ENERGY CREDITS (Categories A & B)
Monthly Payments ($) = (kWh x $/kWh) + $10.00 per month for compliance

CAPACITY CREDITS (Category B Only)
For Category B customers, a Capacity Credit will be computed as follows:
Monthly Payments ($) = (kWh/Total Hours in Control Periods) x $/KW

Where: kWh = Total kWh output of Customer's standby generator during the monthly Control Periods
$/kWh = Applicable energy credit for the month
$/KW = $2.75 Applicable capacity credit

The $10.00 per month for compliance is in addition to the credit per kWh and is paid only in the months in which the Company requests operation of the generator and the Customer complies.

In no event shall the monthly payment be based on an amount of kWh greater than the generator nameplate rating in KW multiplied by the Control Period hours during the month.

9. PAYMENT TO CUSTOMER
Each month, payment shall be made to each participating Customer for the amount of credit due for the previous month. The statement shall specify at least the following information and other data as appropriate: Applicable Month, Total kWh Output, Credit Amount, and Payment Amount.

OFFICIAL COPY

Sep 26 2023

RIDER EC
ECONOMIC DEVELOPMENT

AVAILABILITY

This Rider is closed to new participants on and after January 1, 2024.

Available, only at the Company's option, to nonresidential establishments receiving service from the Company under Schedule LGS, I, or OPT-V provided that the establishment is not classified as Retail Trade or Public Administration by the Standard Industrial Classification (SIC) Manual published by the United States Government.

This Rider is available for load associated with initial permanent service to new establishments, expansion of existing establishments, or new customers in existing establishments who make application to the Company for service under this Rider, and the Company approves such application after November 1, 1994. The New Load applicable under this Rider must be a minimum of 1,000 KW at one delivery point. To qualify for service under this rider, the customer must meet the qualifications under A. or B. below:

A. The Customer employ an additional workforce in the Company's service area of a minimum of seventy-five (75) full time equivalent (FTE) employees per 1,000 KW of New Load. Employment additions must occur following the Company's approval for service under this Rider.

B. The Customer's New Load must result in capital investment of four hundred thousand dollars ($400,000) per 1,000 KW of New Load. The capital investment must occur following the Company's approval for service under this Rider.

This Rider is not available to a new customer which results from a change in ownership of an existing establishment. However, if a change in ownership occurs after the customer contracts for service under this Rider, the successor customer may be allowed to fulfill the balance of the contract under Rider EC and continue the schedule of credits outlined below. This Rider is also not available for renewal of service following interruptions such as equipment failure, temporary plant shutdown, strike, or economic conditions. This Rider is also not available for load shifted from one establishment or delivery on the Duke system to another on the Duke system.

DEFINITIONS

New Load: New Load is that which is added to the Company's system by a new establishment after November 1, 1994. For existing establishments, New Load is the net incremental load above that which existed prior to approval for service under this Rider.

Delivery Date: The Delivery Date is the first date service is supplied under the contract.

Operational Date: The Operational Date shall be the date the facility is fully operational as declared by the Customer, but shall be no more than eighteen (18) months after the Delivery Date.

Month: The term "month" as used in this Rider means the period intervening between readings for the purpose of monthly billings. Readings will be collected each month at intervals of approximately thirty (30) days.

GENERAL PROVISIONS

1. The Customer must make an application to the Company for service under this Rider and the Company must approve such application before the Customer may receive service hereunder. The application must include a description of the amount of and nature of the new load and the basis on which the Customer requests qualification shown in A. or B. under Availability above. In the application, the Customer must affirm that availability of this Rider was a factor in the Customer's decision to locate the new load on the Duke system. For customers making application under paragraph A. above, the application shall also specify the total number of full time equivalent employees (FTE) employed by the Customer in all establishments receiving electric service from the Company's system, at the time of application for this Rider, and on the Operational Date.

2. The Customer must agree to a minimum contract term of ten (10) years, with the credits being available for a maximum period of four years immediately following the Operational Date.

3. For customers contracting under this Rider due to expansion, the Company will determine, based on historical usage, what portion of the Customer's load, qualifies as new Load eligible for this Rider.

4. To continue service under this Rider the customer must maintain a monthly average of 250 hours use of demand.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Seventh Revised Leaf No. 84
Superseding NC Sixth Revised Leaf No. 84

RIDER EC
ECONOMIC DEVELOPMENT

5. All terms and conditions of the rate schedule applicable to the individual customer shall apply to the service supplied to the Customer except as modified by this Rider.

APPLICATION OF CREDIT

Beginning with the Operational Date, a credit based on the percentages below will be applied to the total bill for the New Load contracted for under this Rider, calculated on the applicable rate schedule, including the Basic Facilities, Demand Charge, Energy Charge, or Minimum Bill, applicable Riders listed on Leaf No. 99, but excluding other applicable riders, and excluding Extra Facilities Charges.

Months 1 – 12	20%
Months 13 – 24	15%
Months 25 – 36	10%
Months 37 – 48	5%
After Month 48	0%

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of ten (10) years, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter, by giving at least sixty (60) days previous notice of such termination in writing. If the Customer request a change in rate schedule from that which was approved in conjunction with Rider EC, credit under Rider EC will no longer be available. Such a change will be allowed upon thirty (30) days written notice to the Company. An individual establishment will not be allowed to receive credits for more than four years under this Rider, unless the Company, at its option, agrees to accept a new application and contract for qualifying new load, and such application receives special approval by the Company. If at any time during the term of contract under this Rider the customer violates any of the terms and conditions of the Rider or the agreement, the Company may discontinue service under this Rider, and bill the customer under the applicable schedule without further credits. In the event the Customer requests an amendment to or termination of an agreement under this Rider before the expiration of the initial term of the agreement, the Customer will be required to pay the Company as an early termination charge the lower of:

(a) The net present value of the monthly minimum bills, including, but not limited to, basic facilities, demand, and extra facilities charges, for the remaining term under the agreement less the expected net present value of the monthly minimum bills for the initial term of contract of any successor customer who has applied for service at the premises prior to the effective date of the contract amendment or termination, provided, however, this amount shall not be less than zero.

or

(b) The sum of:

1) The loss due to early retirement ("LDER") of all transmission and distribution facilities specifically installed by the Company in order to provide the Customer with electric service under the agreement to the extent that such facilities will not be utilized by the Company to provide service under the initial term of contract of any successor customer who has applied for service at the premises prior to the effective date of the contract amendment or termination. The LDER amount shall be calculated as the installed cost of such facilities less accumulated depreciation, less any salvage value, plus removal cost, provided, however, this amount shall not be less than zero;

and

2) The repayment of credits received under this Rider to the extent required based upon the marginal cost to serve the Customer. This repayment obligation shall be calculated as the difference between the net charges to the Customer under the applicable rate schedule after the application of any credits received under this Rider and the Company's marginal cost to serve the Customer; provided, however, that this amount shall not be less than zero and shall not be greater than the total credits received by the Customer under this Rider. The Company's marginal cost shall be calculated under the Company's Schedule HP (NC) Hourly Pricing for Incremental Load.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Seventh Revised Leaf No. 87
Superseding NC Sixth Revised Leaf No. 87

RIDER ER
ECONOMIC REDEVELOPMENT

AVAILABILITY

This Rider is closed to new participants on and after January 1, 2024.

Available, only at the Company's option, to nonresidential establishments receiving service from the Company under Schedule LGS, I, or OPT-V, provided that the establishment is not classified as Retail Trade or Public Administration by the Standard Industrial Classification (SIC) Manual published by the United States Government.

This Rider is available for load associated with a new customer in an existing establishment served, or previously served, by the Company, provided the establishment has been unoccupied and/or has remained dormant for a minimum period of six months, as determined by the Company. In order to qualify for service under the Rider, the New Load must be a minimum of 500 KW at one delivery point at one voltage. In addition, the requested service necessary to serve the New Load must not result in additional investment in distribution facilities by the Company, however, minor alterations in the service supplied which can be accomplished feasibly and economically may be allowed. To qualify for service under this Rider, the Customer must meet the qualifications under A. or B. below

A. The Customer employ an additional workforce in the Company's service area of a minimum of thirty-five (35) full time equivalent (FTE) employees per 500 KW of New Load. Employment additions must occur following the Company's approval for service under this Rider.

B. The Customer's New Load must result in capital investment of two hundred thousand dollars ($200,000) per 500 KW of New Load. The capital investment must occur following the Company's approval for service under this Rider.

This Rider is not available for renewal of service following interruptions such as equipment failure, temporary plant shutdown, strike, or economic conditions. This Rider is also not available for load shifted from one establishment or delivery on the Duke system to another on the Duke system. However, if a change of ownership occurs after the customer contracts for service under this Rider, the successor customer may be allowed to fulfill the balance of the contract under Rider ER and continue the credits outlined below.

DEFINITIONS

New Load: New Load is that which is added to the Company's system as a result of the new customer taking service at an existing establishment and shall not be less than the Contract Demand.

Delivery Date: the Delivery Date is the first date service is supplied under the contract.

Operational Date: The Operational Date shall be the date the facility is fully operational as declared by the Customer, but shall be no more than twelve (12) months after the Delivery Date.

Month: The term "month" as used in this Rider means the period intervening between readings for the purpose of monthly billings. Readings will be collected each month at intervals of approximately thirty (30) days.

GENERAL PROVISIONS

1. The Customer must make an application to the Company for service under this Rider and the Company must approve such application before the Customer may receive service hereunder. The application must include a description of the amount of and nature of the new load and the basis on which the Customer requests qualification shown in A. or B. under Availability above. In the application, the Customer must affirm that availability of this Rider was a factor in the Customer's decision to locate the new load on the Duke system. For customers making application under paragraph A. above, the application shall also specify the total number of full time equivalent employees (FTE) employed by the Customer in all establishments receiving electric service from the Company's system, at the time of application for this Rider, and on the Operational Date.

2. The Customer must agree to a minimum contract term of five (5) years, with the credits being available for a maximum period of one (1) year following the Operational Date.

OFFICIAL COPY

Sep 26 2023

RIDER ER
ECONOMIC REDEVELOPMENT

3. For customers contracting under this Rider moving load from another facility, or where the previous customer's dormant load was more than 10% of the load contracted for under this Rider, the Company will determine, based on historical usage, what portion of the Customer's load, qualifies as new Load eligible for this Rider.

4. To continue service under this Rider, the Customer must maintain a monthly average of 300 hours use of demand.

5. All terms and conditions of the rate schedule applicable to the individual customer shall apply to service supplied to the Customer except as modified by this Rider.

APPLICATION OF CREDIT:

Beginning with the Operational Date, a credit of 50% will be applied to the total bill in Months 1 through 12 for the New Load contracted for under this Rider, calculated on the applicable rate schedule, including the Basic Facilities, Demand Charge, Energy Charge, or Minimum Bill, applicable Riders listed on Leaf No. 99, but excluding other applicable riders, and excluding Extra Facilities Charges.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of five (5) years, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter, by giving at least sixty (60) days' previous notice of such termination in writing. If the Customer requests a change in rate schedule from that which was approved in conjunction with Rider ER, credit under Rider ER will no longer be available. Such a change will be allowed upon thirty (30) days' written notice to the Company. If at any time during the term of contract under this Rider, the Customer violates any of the terms and conditions of the Rider or the agreement, the Company may discontinue service under this Rider, and bill the customer under the applicable schedule without further credits. In the event the Customer requests an amendment to or termination of an agreement under this Rider before the expiration of the initial term of the agreement, the Customer will be required to pay the Company as an early termination charge the lower of:

(a) The net present value of the monthly minimum bills, including, but not limited to, basic facilities, demand, and extra facilities charges, for the remaining term under the agreement less the expected net present value of the monthly minimum bills for the initial term of contract of any successor customer who has applied for service at the premises prior to the effective date of the contract amendment or termination, provided, however, this amount shall not be less than zero.

or

(b) The sum of:

1) The loss due to early retirement ("LDER") of all transmission and distribution facilities specifically installed by the Company in order to provide the Customer with electric service under the agreement to the extent that such facilities will not be utilized by the Company to provide service under the initial term of contract of any successor customer who has applied for service at the premises prior to the effective date of the contract amendment or termination. The LDER amount shall be calculated as the installed cost of such facilities less accumulated depreciation, less any salvage value, plus removal cost, provided, however, this amount shall not be less than zero;

and

2) The repayment of credits received under this Rider to the extent required based upon the marginal cost to serve the Customer. This repayment obligation shall be calculated as the difference between the net charges to the Customer under the applicable rate schedule after the application of any credits received under this Rider and the Company's marginal cost to serve the Customer; provided, however, that this amount shall not be less than zero and shall not be greater than the total credits received by the Customer under this Rider. The

OFFICIAL COPY

Sep 26 2023

RIDER ER
ECONOMIC REDEVELOPMENT

Company's marginal cost shall be calculated under the Company's Schedule HP (NC) Hourly Pricing for Incremental Load.

OFFICIAL COPY

Sep 26 2023

RIDER GS
GREEN SOURCE
(EXPERIMENTAL)

AVAILABILITY

This Rider is available on a limited and voluntary basis, at the Company's option, to nonresidential customers receiving concurrent service from the Company on Schedule OPT-V, who elect to displace all or a portion of the energy supplied for the customer's new load added to the Company's system after June 30, 2012, with procurement of renewable energy resources. The Customer's new load must be a minimum of 1000 kW. This Rider is not available to customers receiving service under Rider PS, SCG, NM or NSC. This Rider is available for enrollment for a three-year period following its initial approval, or until the aggregate program cap of approximately 1,000,000 annual megawatt hours is reached, whichever occurs first.

GENERAL PROVISIONS

To qualify for this Rider, the Customer must make an application to the Company requesting an annual amount of energy and Renewable Energy Certificates ("RECs") be produced or procured over a specific term. The application shall be accompanied by the payment of a nonrefundable application fee of $2000, which is intended to cover the Company's transaction fees related to the procurement of renewable energy pursuant to the Customer's application. The Company will make its best efforts to match the supply source, in terms of annual output and term of contract, with that requested by the Customer either by entering into a purchased power agreement(s) ("PPA") with a renewable energy supplier(s) or supplying the energy directly from one or more Duke Energy Carolina renewable energy assets that are dedicated to serving Rider GS customers. The Company shall allow the Customer to review the negotiated price terms and the terms and conditions of a PPA or the price offered from a dedicated Company asset prior to the Customer's election to participate in this Rider. Upon review of the price, and terms and conditions in the case of a PPA, the Customer may elect to move to proceed with or cancel its application; provided however, the terms and conditions of a PPA with a renewable energy supplier shall be set in Duke Energy Carolinas' sole discretion. In either case, the Customer shall be responsible for the entire cost incurred under the PPA or use of Company's asset. The renewable energy supplier is a renewable energy resource from which the Company procures energy and "RECs" as a result of the Customer's election under this rider.

In order to participate in this Rider, the Customer shall provide the Company a guarantee, surety bond, letter of credit or other form of security that is acceptable to the Company. Such security for payment of all obligations to the Company under this Rider shall be in an amount sufficient to cover the Company's full costs and other obligations of Company, including a termination or default of Customer's obligations under this Rider during its term.

In procuring the renewable energy, the Company will ensure that renewable energy resources utilized under this rider are or have been placed in service on or after January 1, 2007.

The Company shall not be liable to the Customer in the event that the renewable energy supplier fails to provide renewable energy to the Company and will make reasonable efforts to encourage the renewable energy supplier to resume production as soon as possible. However, in the event that the renewable energy supplier terminates the renewable energy contract with the Company, for any reason during the term of contract with the Customers, the Company, at the election of the Customer, shall make reasonable efforts to enter into a new purchased power agreement with another renewable energy supplier or to provide renewable energy from a Duke Energy Carolinas facility as soon as practicable with the cost of the renewable energy to the Customer revised accordingly.

This Rider is for retail service, in conjunction with the electric service agreement for the customer served at retail by the Company, in consideration of the Customer's retail purchase commitment under this Rider having induced a

OFFICIAL COPY

Sep 26 2023

RIDER GS
GREEN SOURCE
(EXPERIMENTAL)

specified and agreed upon commitment by the Company to purchase or invest in a specified renewable energy resource.

The Company will retire the RECs associated with the energy procured for the participating customer upon receipt of payment from the Customer.

RATE

CHARGES

I. The rate for service supplied to the customer shall be the applicable time of use rate schedule including the Basic Customer Charge, Peak Demand Charge, Mid-Peak Demand Charge, Base Demand Charge, On-Peak Energy Charge, Off-Peak Energy Charge, Discount Energy Charge, and all applicable Riders, plus

II. Charges for the total cost of the renewable energy and RECs produced by the Company or procured under a PPA as a result of the Customer's election, during the previous billing period, determined on an hourly basis, plus

III. Rider GS Administrative Charge of $500.00 per month plus .02¢/kWh of renewable energy produced or procured as a result of the Customer's election during the previous billing period

CREDITS

I. Bill credits for renewable energy shall be based on a ¢/kWh rate equal to the avoided capacity and energy expense during the term in which the renewable energy supplier delivers renewable energy to the Company or the Company supplies renewable energy from a dedicated asset, applied to the actual renewable kWh procured or produced. The amount of the bill credits shall be determined at the sole discretion of the Company consistent with applicable North Carolina and federal law and regulation, including 18 C.F.R. § 292, using the Company's avoided cost model to determine the avoided capacity and energy fixed over the term the term in which the renewable energy supplier delivers to the Company. In the event that the credits for avoided capacity and energy, as calculated above, exceed the cost of the renewable energy and RECs produced or procured by the Company, on a ¢/kWh basis, such credits shall be limited to a ¢/kWh amount equal to the ¢/kWh cost of the renewable energy and RECs produced or procured by the Company. The Company shall allow the Customer to review the proposed bill credit prior to the Customer's election to participate in this Rider. Upon review of the proposed bill credit, the Customer may elect to proceed with or cancel its application to participate.

All terms and conditions of the rate schedule applicable to the individual Customer shall apply to the service supplied to the Customer except as modified by this Rider.

CONTRACT PERIOD

Each Customer shall enter into a contract for service under this Rider for a term and with terms and conditions consistent with the term and terms and conditions of the contract with the renewable energy supplier, or as agreed upon between Company and Customer in the case of renewable energy produced from a Duke Energy Carolinas facility, but, in either case the contract will not be for less than 3 years and not more than 15 years. If the Customer requests an amendment to or termination of the service agreement, or defaults on the service agreement before the expiration of the term of the agreement, the Customer shall pay to the Company an early termination charge equal to the full amount due under the termination and damages provisions set forth in the PPA(s). Such termination charge

OFFICIAL COPY

Sep 26 2023

RIDER GS
GREEN SOURCE
(EXPERIMENTAL)

may be adjusted if and to the extent a successor customer requests service under this Rider and fully assumes the obligation for the purchase of renewable energy prior to the effective date of the contract amendment or termination; provided, however, Company will not utilize or change utilization of its assets and positions to minimize Customer's costs due to such early termination.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Second Revised Leaf No. 129
Superseding NC First Revised Leaf No. 129

RIDER EDIT-3
EXCESS DEFERRED INCOME TAX RIDER #3

APPLICABILITY

All service supplied under the Company's rate schedules is subject to a decrement per kilowatt-hour as set forth below. This decrement is not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate.

This adjustment reduces rates for excess deferred income taxes associated with House Bill 998, An Act to Simplify the North Carolina Tax Structure and to Reduce Individual and Business Tax Rates. This adjustment also includes a credit for deferred revenue associated with The Federal Tax Cut and Jobs Act that reduced corporate federal income tax rates from 35% to 21% effective January 1, 2018. This rider shall remain in effect for twenty-four (24) months and shall terminate and no longer be applicable for service on and after June 1, 2023.

MONTHLY RATE

Effective for service rendered on and after October 1, 2021, the decremental rate for the appropriate rate class, including revenue-related taxes and regulatory fees, shall be as shown in the following table:

Rate Class	Applicable Schedules	Billing Rate (¢/kWh)
Residential	RS, RE, ES, RT, RSTC, RETC	(0.1894)
General Service	SGS, BC, LGS, TS, OPT-V, HP, PG, S, SGSTC, HLF	(0.1132)
Industrial Service	I, OPT-V, HP, PG	(0.0886)
Lighting	OL, PL, NL	(0.4875)

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Second Revised Leaf No. 131
Superseding NC First Revised Leaf No. 131

RIDER EDIT-4
EXCESS DEFERRED INCOME TAX RIDER #4

APPLICABILITY

All service supplied under the Company's rate schedules is subject to a decrement per kilowatt-hour as set forth below. This decrement is not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate.

This adjustment reduces rates for savings realized with The Federal Tax Cuts and Jobs Act that reduced corporate federal income tax rates from 35% to 21% effective January 2018. These federal savings reflect a credit for unprotected excess deferred income taxes resulting from that change. This rider shall remain in effect for 40 months as of February 2023 and shall terminate and no longer be applicable for service on and after June 1, 2026.

MONTHLY RATE

The decremental rate for the appropriate rate class, including revenue-related taxes and regulatory fees, shall be as shown in the following table:

Rate Class	Applicable Schedules	Billing Rate (¢/kWh)
Residential	RS, RE, ES, RT, RSTC, RETC	(0.5074)
General Service	SGS, BC, LGS, TS, OPT-V, HP, PG, S, SGSTC, HLF	(0.3032)
Industrial Service	I, OPT-V, HP, PG	(0.2369)
Lighting	OL, PL, NL	(1.3488)

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixth Revised Leaf No. 133
Superseding NC Fifth Revised Leaf No. 133

RIDER STS
STORM SECURITIZATION

APPLICABILITY

All service supplied under the Company's rate schedules is subject to approved storm cost recovery adjustments, an increment per kilowatt hour as set forth below. This increment is not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate.

The Storm Recovery Charge shall be paid by all existing or future retail customers receiving transmission or distribution service, or both, from Company or its successor or assignees under Commission-approved rate schedules or under special contracts, even if the customer elects to purchase electricity from alternative electric suppliers following a fundamental change in regulation of public utilities in this State.

STORM RECOVERY CHARGE

The Storm Recovery Charge applicable to the Energy Charge under the Company's various rate schedules was approved in a financing order issued to the Company by the North Carolina Utilities Commission and will be adjusted at least semi-annually to ensure timely payment of principal, interest and financing costs of storm recovery bonds from the effective date of the Storm Recovery Charge until the storm recovery bonds have been paid in full or legally discharged and the financing costs have been fully recovered. As approved by the Commission, a Special Purpose Entity (SPE), wholly owned by Company, has been created and is the owner of the storm recovery property which includes all rights to impose, bill, charge, collect, and receive the relevant Storm Recovery Charge and to obtain periodic adjustment to such charges. Company, as servicer, shall act as SPE's collection agent for the relevant Storm Recovery Charge.

MONTHLY RATE

Effective for service rendered on and after January 1, 2023, the incremental rate for the appropriate class, including revenue-related taxes and regulatory fees, shall be as shown in the following table:

Rate Class	Applicable Schedules	Billing Rate (¢/kWh)
Residential	ES, RE, RETC, RS, RSTC, RT	0.0438
General Service	BC, HP, LGS, HLF, OPT-V, PG, S, SGS, SGSTC, TS	0.0144
Industrial	HP, I, OPT-V, PG	0.0077
Lighting	NL, OL, PL	0.1595

OFFICIAL COPY

Sep 26 2023

RIDER SCR
STORM COST RECOVERY RIDER

APPLICABILITY

This Rider is terminated on and after January 1, 2024.

This adjustment reflects the creation of a storm recovery rider as established in Docket No. E-7, Sub 1214. The storm recovery rider will be initially set at $0. Should the Company not file a petition for a financing order to securitize its storm recovery costs deemed reasonable and prudent by the North Carolina Utilities Commission, or is otherwise unable to recover its storm recovery costs deemed reasonable and prudent, using the financing tool created by Senate Bill 559, An Act to Permit Financing for Certain Storm Recovery Costs, Duke Energy is permitted to request recovery of the reasonable and prudent storm costs by filing a petition with the North Carolina Utilities Commission requesting an adjustment to the storm recovery rider.

All service supplied under the Company's rate schedules is subject to approved storm cost recovery adjustments, an increment per kilowatt-hour as set forth below. This increment is not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate.

Effective for service rendered on and after June 1, 2021, the applicable kilowatt-hour rider increment including revenue-related taxes and regulatory fees is 0.0000¢ per kilowatt-hour.

OFFICIAL COPY

Sep 26 2023

RIDER NSC
NON-RESIDENTIAL SOLAR CHOICE

AVAILABILITY

Available to non-residential Customer-Generators receiving concurrent service from the Company, on a metered rate schedule, except as indicated under General Provisions. A Customer-Generator is an owner, operator, or lessee of an electric generation unit that generates or discharges electricity from a renewable energy resource, including an energy storage device configured to receive electrical charge solely from an onsite renewable energy resource. The renewable net energy metered (NEM) generation, which may include a solar photovoltaic; solar thermal; wind powered; hydroelectric; geothermal; tidal or wave energy; recycling resource; hydrogen fueled or combined heat and power derived from renewable resources; or biomass fueled generation source of energy, must be installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's system. The generation must be located at a single premise owned, operated, leased or otherwise controlled by the Customer. The system may either be owned by the Customer or by a lessor and leased to the Customer.

Customers applying for service under this Rider must be served under an approved general service or industrial rate schedule that includes time-of-use (TOU) periods.

If Customer receives electric service under a schedule other than a TOU schedule with demand rates, any renewable energy credit or "green tags" shall be provided by Customer at no cost to Company. If service is received under a time-of-use schedule with demand rates, all renewable energy credits or "green tags" shall be retained solely by Customer.

GENERAL PROVISIONS

1. To qualify for service under this Rider, the Customer must comply with all applicable interconnection standards and must provide, in writing, the Nameplate Capacity of the Customer's installed renewable generation system. Any subsequent change to the Nameplate Capacity must be provided by Customer to Company in writing by no later than 60 days following the change.

2. To qualify for service under this Rider, the Customer must not be served on another parallel generation rate schedule or rider. For Customer-owned facilities, the Nameplate Capacity of Customer's installed renewable generation system and equipment must not exceed the lesser of 5,000 kW AC or 100% of the Customer's contract demand which shall approximate the Customer's maximum expected demand. For leased facilities, the Nameplate Capacity of Customer's installed renewable generation system and equipment must not exceed the lesser of 1,000 kW AC or 100% of the Customer's contract demand which shall approximate the Customer's maximum expected demand.

3. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.

4. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kWh supplied by the Company plus any demand or other charges under the applicable rate schedule or riders.

5. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity supplied by the Company during a monthly billing period, the Customer-Generator shall be credited for the net excess energy in kWh generated during that billing period at the Monthly Credit rate below.

6. Net electricity will be calculated for each TOU period, in descending order by price. Any net excess energy from one TOU period will be applied to the next TOU period, as applicable. After net electricity has been calculated for all TOU periods, the Customer-Generator shall be credited for any remaining net excess energy at the Monthly Credit rate below.

7. In the event the Company determines that it is necessary to increase the capacity of facilities beyond those required to serve the Customer's electrical requirement or to install a dedicated transformer or other equipment to protect the safety and adequacy of electric service provided to other customers, the Customer shall pay the estimated cost of the required transformer or other equipment above the estimated cost which the Company would otherwise have normally incurred to serve the Customer's electrical requirement, in advance of receiving service under this Rider.

OFFICIAL COPY

Sep 26 2023

RIDER NSC
NON-RESIDENTIAL SOLAR CHOICE

8. A Standby Charge of $1.85 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a TOU demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

RATE

All provisions of the applicable schedule and other applicable riders will apply to service supplied under this Rider, except as modified herein. In addition to all charges in the applicable rate schedule for Customer's net electrical usage, the following credit will be applied to net electricity delivered to the grid by Customer's renewable generation as specified under General Provisions:

Monthly Credit for Net Excess Energy, per kWh	$0.0335

METERING REQUIREMENTS

The Company will furnish, install, own and maintain a billing meter to measure the kW demand delivered by the Company to the Customer, and to measure the net kWh purchased by the Customer or delivered to the Company. For renewable generation capacity of 20 kW AC or less, the billing meter will be a single, bi-directional meter which records independently the net flow of electricity in each direction through the meter, unless Customer's overall electrical requirement merits a different meter. For larger renewable generation capacities, the Company may elect to require two meters with 30-minute interval capabilities to separately record Customer's electrical consumption and the total generator output, which will be electronically netted for billing. The Customer grants the Company the right to install, operate, and monitor special equipment to measure the Customer's generating system output, or any part thereof, and to obtain any other data necessary to determine the operating characteristics and effects of the installation. All metering shall be at a location that is readily accessible by the Company.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities Charge shall not apply.

POWER FACTOR

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kWh, as appropriate. The Company reserves the right to install facilities

OFFICIAL COPY

Sep 26 2023

RIDER NSC
NON-RESIDENTIAL SOLAR CHOICE

necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generation system is less than 20 kW and uses an inverter.

CONTRACT PERIOD

The Customer shall enter into a contract for service under this Rider for a minimum original term of one (1) year, and the contract shall automatically renew thereafter, except that either party may terminate the contract after one year by giving at least 60 days prior notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the renewable generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early termination, in accordance with the Company's Service Regulations.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 144

OFFICIAL COPY

Sep 26 2023

RIDER CAR
CUSTOMER ASSISTANCE RECOVERY

APPLICABILITY

The incremental rate shown below is not included in the Rate provision in the rate schedules listed below. This adjustment increases billing rates to fund the Customer Assistance Program. This Rider is not applicable to the Lighting rate class.

MONTHLY RATE

The incremental rate for the appropriate rate class, including revenue-related taxes and regulatory fees, shall be as shown in the following table:

Rate Class	Applicable Schedules	Billing Rate ($/kWh for Residential; $/bill for General Service and Industrial)
Residential	RS, RE, ES, RT, RSTC, RETC	$0.001246
General Service	SGS, BC, LGS, TS, OPT-V, HP, PG, S, SGSTC, HLF	$1.30
Industrial	I, OPT-V, HP, PG	$1.30

OFFICIAL COPY

Sep 26 2023

RIDER GSA
GREEN SOURCE ADVANTAGE

AVAILABILITY

This Green Source Advantage Program ("GSA Program" or "Program") is available to nonresidential customers meeting the eligibility criteria specified herein and receiving concurrent service on another rate schedule, excluding service under outdoor lighting schedules, who elect to direct the Company to procure renewable energy on the Customer's behalf pursuant to the terms of the GSA Program, as approved by the Commission. Eligibility for the Program is limited under N.C. Gen. Stat. § 62-159.2 to the University of North Carolina ("UNC") system, major military installations, and nonresidential customers with a minimum Maximum Annual Peak Demand of 1,000 kW or an aggregated Maximum Annual Peak Demand at multiple service locations of 5,000 kW (collectively, "Eligible GSA Customers" or "Customer"). The Program is also limited to a combined total of 600 MW of renewable energy facilities between the Duke Energy Carolinas and Duke Energy Progress service territories ("Maximum GSA Program Capacity"). Of the 600 MW of Maximum GSA Program Capacity available under the Program, 250 MW shall be reserved exclusively for use by the UNC system, and 100 MW shall be reserved exclusively for use by major military installations in North Carolina (together, the "Reserved Capacity"). Pursuant to Section 11.19.(f1) of Session Law 2021-180, the total 350 MW of Reserved Capacity shall also be made available and reserved for an "eligible customer" defined as a customer of an electric utility that locates a new manufacturing facility at a project site that is subject to agreement with the Department of Commerce pursuant to Section 11.19.(d) of Session Law 2021-180. The remaining 250 MW shall be reserved for use by Eligible GSA Customers in either Duke Energy Carolinas or Duke Energy Progress service territories on a first-come, first-served basis. Any Reserved Capacity that is not subscribed by the UNC system or major military installations by August 5, 2022 shall be solely reserved for an eligible customer pursuant to Section 11.19.(f1) of Session Law 2021-180 through January 1, 2028. This Rider and the Program shall remain open to Eligible GSA Customers pursuant to the Program's terms and conditions, as approved by the Commission, for a period of five years following initial Program approval of August 5, 2019 and shall remain open to an "eligible customer" pursuant to Section 11.19.(f1) of Session Law 2021-180 until January 1, 2028.

DIRECTED PROCUREMENT OF GSA FACILITIES

The Program allows Eligible GSA Customers to direct the Company to procure renewable energy that will be used to supply all customers and allows the Customer to obtain the renewable energy certificates ("RECs") generated by a GSA Facility ("GSA Facility"). A GSA Facility must be a new renewable energy facility located in the Duke Energy Carolinas service territory in either North Carolina or South Carolina with supply that will be dedicated to the Program by the facility owner ("Renewable Supplier") and used to serve all customers.

Customers seeking to participate in the Program shall have the option to either (1) request affiliates of Duke Energy Carolinas to develop a facility or (2) identify and propose to the Company a GSA Facility developed by another Renewable Supplier. The Renewable Supplier will enter into a power purchase agreement ("GSA PPA") with the Company. The Customer will negotiate price terms directly with a Renewable Supplier. As described below, the Renewable Supplier shall transfer RECs directly to the Customer through a separate contractual arrangement.

APPLICATION PROCESS AND GSA SERVICE AGREEMENT

To participate in the GSA Program, a Customer must submit an application to the Company requesting an annual amount of renewable capacity to be developed or procured on the Customer's behalf. The Customer may apply for the Company to develop or procure renewable generation capacity up to 125% of the Customer's aggregate Maximum Annual Peak Demand at eligible Customer service location(s) within Duke Energy Carolinas' North Carolina service territory. An eligible customer under Session Law 2021-180 is authorized to subscribe to a capacity amount of remaining Reserved Capacity sufficient to produce on an annual basis one hundred percent (100%) of the eligible customer's actual annual electricity usage or reasonably projected annual electricity usage over the immediately subsequent annual period, up to the total Reserved Capacity available at the time of subscription and not to exceed 350 MW.

The Customer's application will designate the Renewable Supplier selected by the Customer. The application shall also identify the requested Bill Credit option and contract term (two, five, ten, fifteen, or twenty years for a Customer electing Administratively

OFFICIAL COPY

Sep 26 2023

RIDER GSA
GREEN SOURCE ADVANTAGE

Established Avoided Cost Bill Credit or any number of years up to the 20 year limit for a Customer electing the Hourly Marginal Avoided Cost Bill Credit). All Customer applications shall be accompanied by the payment of a $2,000 nonrefundable application fee. Program reservations will be accepted on a "first-come-first-served" basis based upon the date and time of receipt of the Customer's completed application and application fee. Subsequent applications will be held until earlier applications are resolved and will not be rejected until the Company's Maximum GSA Program Capacity is satisfied. The $2,000 application fee will be refunded to the Customer only in the event that the Customer's application is rejected due to insufficient GSA Program Capacity.

A Customer submitting an application shall also be required to deliver, at the time of application, a standard-form term sheet executed by the Customer and Renewable Supplier, which shall identify the Renewable Supplier and provide information about the proposed GSA Facility and other information as requested by the Company and identified in the term sheet.

The GSA Service Agreement shall include the general terms and conditions applicable under this Rider and shall specify the rates and charges applicable under the GSA Program for the contract term. The Customer must execute and return the GSA Service Agreement within 30 days of delivery by the Company and the Renewable Supplier must execute and return the GSA PPA within 30 days of delivery by the Company. Failure to timely execute and return the GSA Service Agreement or GSA PPA will result in termination of the Customer's application and GSA capacity reservation, which would then require the Customer to start the Program enrollment process anew in order to participate in the Program.

GSA PPA RATES AND TERMS

The GSA PPA delivered to a Renewable Supplier selected to provide a GSA Facility shall include delivery of energy and capacity. The GSA PPA contract price shall be equal to the applicable Bill Credit selected by the Customer.

RENEWABLE ENERGY CREDITS

The Renewable Supplier is required to register the Renewable Facility with NC-RETS pursuant to Commission Rule R8-66 or another REC tracking system to facilitate the issuance of RECs. The Renewable Supplier shall transfer all RECs to the Customer pursuant to the GSA Service Agreement, and the GSA Service Agreement shall include an attestation by the Customer that the RECs generated by the designated GSA Facility will be transferred by the Renewable Supplier to the applicable tracking account identified by the GSA Customer. The Renewable Supplier shall be solely responsible for procuring, delivering, and transferring RECs to the Customer.

MONTHLY RATE

An amount computed under the GSA Customer's primary rate schedule and any other applicable riders plus the sum of the (1) the GSA Product Charge, (2) the GSA Bill Credit, and (3) the GSA Administrative Charge.

1. GSA Product Charge – The GSA Product Charge shall be equal to the Negotiated Price. The monthly GSA Product Charge shall be determined by multiplying the Negotiated Price times the energy produced by the GSA Facility in the prior billing month.

   GSA Bill Credit – The GSA Bill Credit shall, as elected by the Customer and designated in the GSA Service Agreement, be either (1) the avoided cost bill credit ("Administratively Established Avoided Cost Bill Credit") or (2) the hourly rate bill credit ("Hourly Marginal Avoided Cost Bill Credit").

   Administratively Established Avoided Cost Bill Credit:

   The Administratively Established Avoided Cost Bill Credit shall be equal to the fixed levelized avoided energy and capacity rate calculated using the methodology approved pursuant to N.C. Gen. Stat. § 62-156(c) calculated over a period of 2 years (for contract terms of 2 years) or 5 years (for contract terms of 5 years or more). In the case of contract terms longer than 5 years, the Administratively Established Avoided Cost Bill Credit will be recalculated every five (5) years using the then approved methodology. If the Administratively Established

OFFICIAL COPY

Sep 26 2023

RIDER GSA
GREEN SOURCE ADVANTAGE

Avoided Cost Bill Credit is designated in the GSA Service Agreement as the applicable bill credit, the Monthly GSA Bill Credit shall be determined by multiplying the applicable Administratively Established Avoided Cost Bill Credit times the energy produced in the applicable hours by the GSA Facility in the prior billing month.

Hourly Marginal Avoided Cost Bill Credit:

The Hourly Marginal Avoided Cost Bill Credit applicable to each hour shall be equal to the following:

Hourly Rate = (Hourly Energy Price + Hourly Capacity Price).

i. Hourly Energy Price = Expected marginal production cost, and other directly-related costs.

ii. Hourly Capacity Price = marginal capacity cost during hours with generation constraint.

iii. The Hourly Rate will not, under any circumstance, be lower than zero.

If the Hourly Marginal Avoided Cost Bill Credit is designated in the GSA Service Agreement as the applicable bill credit, the Monthly Bill Credit shall be determined by multiplying the applicable Hourly Marginal Avoided Cost Bill Credit times the energy produced by the GSA Facility in the applicable hours in the prior billing month.

2. GSA Administrative Charge – the applicable monthly administrative charge shall be $375 per Customer Account, plus an additional $50 charge per additional account billed.

GENERAL PROVISIONS

For the avoidance of doubt, the Company (1) shall not be liable to the Customer in the event that a GSA Facility fails to produce energy as required under a GSA PPA or as otherwise consistent with the Customer's expectations and (2) shall have no obligation under any circumstance to supply RECs to the Customer. The GSA Facility shall be a system resource and energy produced and delivered under the GSA PPA shall not be directly delivered to the GSA Customer.

OFFICIAL COPY

Sep 26 2023

RIDER ED
ECONOMIC DEVELOPMENT

AVAILABILITY

Available, only at Company's option, to nonresidential establishments receiving service under Schedule LGS, I or OPT-V provided that the establishment is not classified as Retail Trade or Public Administration by the North American Industry Classification System (NAICS).

This Rider is available for load associated with initial permanent service to new establishments, expansion of existing establishments, or new customers in existing establishments who make application to Company for service under this Rider, and Company approves such application.

This Rider is not available to a new customer which results from a change in ownership of an existing establishment. However, if a change in ownership occurs after Customer contracts for service under this Rider, the successor Customer may be allowed to fulfill the balance of the contract under this Rider and continue the schedule of credits outlined below. This Rider is also not available for resumption of service following interruptions such as equipment failure, temporary plant shutdown, strike, or economic conditions. This Rider is also not available for: (1) load shifted from one establishment or delivery on Company's system to another on Company's system; (2) short-term, construction, or temporary service; or (3) electrical load that results from the shutdown or reduction of generation facilities.

DEFINITIONS

New Load: New Load is that which is added to Company's system by a new establishment. For existing establishments, New Load is the net incremental load above that which existed prior to approval for service under this Rider. The New Load shall exclude any curtailable, back-up, or standby service.

New Load for existing customers considering relocating outside of the Company's service territory may qualify for an Economic Development Bill Factor Reduction. Existing customers must reinvest in existing establishments and meet the capital investment and employment requirements in the Qualifying Criteria in item B below as well as attest to and provide documentation of the consideration to relocate outside of the Company's service territory within the Qualifying Criteria in item C below. New Load shall exclude reductions associated with the removal of equipment and/or processes by existing customers.

Delivery Date: The Delivery Date is the first date service is supplied under the contract.

Operational Date: The Operational Date shall be the date the facility is fully operational as declared by the Customer, but shall be no more than 36 months after the Delivery Date.

QUALIFYING CRITERIA

To participate in this Rider, the Customer must meet the following criteria:

A. The minimum qualifying New Load must have a minimum load factor of 40% at a single point of delivery, must be at least 1,000 kW at the Customer's single premise, and the Customer must have applied for and received economic assistance from the state or local government or other public agency before the Company will approve a Service Agreement under this Rider, except New Load for existing customers considering relocating outside of the Company's service territory.

B. The new or expanding business must also meet at least one of the following two requirements at the project location:

   1) Customer employs an additional workforce in Company's service area of a minimum of 50 full time equivalent (FTE) employees. Employment additions must occur following Company's approval for service under this Rider.

   2) Customer's New Load must result in capital investment of $500,000 per MW and two (2) new FTE employees per MW by Customer in Company's service area. The capital investment must occur following Company's approval for service under this Rider.

C. Customer must provide written documentation attesting that the availability of this Rider is a significant factor in the Customer's location/expansion decision.

OFFICIAL COPY

Sep 26 2023

RIDER ED
ECONOMIC DEVELOPMENT

D. The two (2) new FTE employees in item B.2) and the minimum load factor of 40% requirement in item A are waived for electric vehicle (EV) fleet customers, where 80% of expected energy usage is related to EV charging. Additionally, the minimum qualifying New Load requirement of 1,000 kW in item A is lowered to 500 kW for EV fleet customers. An EV fleet Customer who receives a monthly bill discount under this Rider is not eligible to receive any other EV-related incentives offered by the Company.

GENERAL PROVISIONS

1. Customer must make an application to Company for service under this Rider, and Company must approve such application before Customer may receive service hereunder. The application must include a description of the amount of and nature of the New Load and the basis on which Customer requests qualification shown in the Qualifying Criteria above. In the application, Customer must affirm that availability of this Rider was a factor in Customer's decision to locate the New Load on Company's system. The application shall also specify the total number of FTE employees employed by Customer in all establishments receiving electric service from Company's system, at the time of application for this Rider and on the Operational Date.

2. For Customers contracting under this Rider due to expansion, Company may install metering equipment necessary to measure the New Load to be billed under this Rider separate from the existing load billed under the applicable rate schedule. Company reserves the right to make the determination of whether such installation will be separately metered or sub-metered. If in Company's opinion, the nature of the expansion is such that either separate metering or submetering is impractical or economically infeasible, Company will determine, based on historical usage, what portion of Customer's load, if any, qualifies as New Load eligible for this Rider.

3. All terms and conditions of the Customer's applicable rate schedule shall apply to the service supplied to Customer, except as modified by this Rider.

RATE PER MONTH

All charges shall be those set forth in the Customer's applicable rate schedule with the resulting monthly bill adjusted by the Economic Development Bill Reduction Factor, plus any Extra Facilities Charges as specified in Company's Service Regulations or as otherwise agreed.

ECONOMIC DEVELOPMENT BILL REDUCTION FACTOR

Beginning with the effective date as declared by the Customer and in compliance with this Rider, a reduction in the monthly bill will be applied up to a 75% kW Demand Charge for the qualifying New Load under this Rider.

The percentage discount to be applied to the Customer's monthly bills will be determined in advance, on or prior to the date of execution of a Service Agreement, and will be developed on an individual customer basis given the evaluation of the following criteria as to the New Load:

1. Peak monthly demand;
2. Average monthly load factor;
3. The Company's incremental costs to serve;
4. Number of new FTE employees;
5. Economic multiplier; and
6. Total new capital investment of the Customer.

Item 3 will not take into account the costs for additional facilities that are being covered in full by the Customer through the terms of the Service Agreement or another agreement between the Company and the Customer.

TERM OF SERVICE

The Customer may request the Operational Date as an effective date of this Rider which is no more than 36 months after the Delivery Date. The minimum term of the Service Agreement shall be twice the number of years for which the Customer is receiving a credit

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 240

RIDER ED
ECONOMIC DEVELOPMENT

following the Customer's effective date, with the bill reductions being available for a maximum period of 10 years.

PENALTY FOR NON-COMPLIANCE WITH QUALIIFYING CRITERIA OR TERM OF SERVICE

If at any time during the term of the Rider agreement the Customer violates the terms and conditions of the Rider or the Service Agreement, the Company may discontinue the discount provided for under this Rider and bill the Customer based on their applicable rate schedule. If the Customer terminates service prior to the end of the Agreement period or fails to meet the Qualifying Criteria agreed to for the term of the Agreement, this will constitute a violation of the terms and conditions of the Rider and Agreement.

Should service under this Rider be discontinued by the Company or Customer for said violation, the Customer shall be required to repay to the Company the amount of the cumulative discounts received under this Rider in accordance with the following schedule.

Number of months beginning with and following the effective date declaration and ending with the date of violation	Required percentage of cumulative economic development bill discounts that must be repaid
Month 1 to end of credits	100%
First 12 months after credits cease	80%
Months 13-24 after credits cease	60%
Months 25-36 after credits cease	40%
Months 36-47 after credits cease	20%
Month 48 to term of contract	10%

If a change in ownership occurs after execution of the Service Agreement, the successor Customer may, in the Company's discretion, be allowed to fulfill the balance of the Service Agreement and participate in this Rider.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Seventh Revised Leaf No. 331
Superseding NC Sixth Revised Leaf No. 331

RIDER SRR
SOLAR REBATE RIDER

AVAILABILITY

This Rider is available to a customer installing and operating a solar photovoltaic (PV) electric generating system who meets the eligibility requirements of and participates in net metering Rider NM or NSC. The system may either be owned by the Customer or by a lessor and leased to the Customer. Customer may not simultaneously receive service under this Rider and Company's Purchased Power Schedule PP or participate as a generation resource in NC GreenPower or other voluntary renewable resource power market.

New participation under the Rider shall be limited to no greater than 10,000 kilowatts (kW) per year of installed capacity starting in January 1, 2018 and ending December 31, 2022. Non-residential installations shall not exceed 5,000 kW in a calendar year. 2,500 kW of the capacity for non-residential installations shall be set aside for use by nonprofit organizations with 50 kW of the 2,500 kW set aside for use by the NC GreenPower Solar Schools Pilot or a similar program. A nonprofit organization is defined as an organization or association recognized by the Department of Revenue as tax exempt pursuant to G.S. 105-130.11(a) or any bona fide branch, chapter or affiliate of that organization. If in any application period a portion of the incentives goes unsubscribed, the Company may roll excess incentives over into a subsequent application period's allocation. Any unsubscribed capacity, regardless of any set aside requirement, available at January 1, 2023 shall be available to any customer meeting the rider qualifications.

For years 2021 and 2022, applications will be accepted within six-month application periods which shall open on the first Wednesday in January and July. For 2021, the application periods shall open on January 6, 2021 and July 7, 2021. For 2022, the application periods shall open on January 5, 2022 and July 6, 2022. For 2021 and 2022, application periods shall end on the last day of the sixth month: June 30 or December 31. Available annual capacity will be allocated evenly (50%) between the bi-annual application periods.

Applications will be accepted and selected through a lottery system beginning with the July 2021 application period. Under the lottery system, the Company will accept applications for one week, beginning at 9:00 am on the first day of the application period and ending at 9:00 am on the eighth day. During this period the Company will review submissions for eligibility and work with customers to resolve issues with their application. Eligible applications will be entered into the lottery. If there is any doubt as to an application's eligibility, it would be placed in the lottery, but the outstanding issue with the application will be resolved before communicating rebate status after the lottery. Applications will be assigned a place in line at random using an analytical software. Applications will then receive a rebate allocation or be placed on a waiting list based on capacity allocation rules of the Program. The Company will send emails to customers informing them of their placement and post the waitlist to the website no later than three weeks after the opening date of the application period. If the participation limit for a specific customer class is not reached in the lottery allocation, the Company will reopen the application process for any group that has capacity available.

Customers will be notified on the Company's website if the bi-annual participation limits are achieved. The website shall be updated weekly until such time as residential and non-residential participation limits have been reached; after which the website shall be updated monthly. All waitlisted applications will be rejected and cancelled at the end of each application period. Applications may be submitted no earlier than the first day of the application period, and are applicable to both new installations and installations completed within 90 days of the application period. Due to the modification of the January 2021 enrollment opening date, waitlisted residential and commercial systems installed between October 6, 2020, and January 6, 2021, shall be eligible to submit an application for the July 2021 program enrollment. This Rider shall be available to new applicants until the later of December 31, 2022 or when the 10,000 kW annual capacity limit is achieved for all program years.

APPLICATION REQUIREMENTS

Customer must complete and submit an application on the Company's website requesting service under the Program in accordance with the lottery system rules outlined in the Availability section. Submission of such an application, however, does not guarantee a rebate; rebates will be allocated randomly within the pool of eligible applications per the lottery system and capacity allocation rules of the Program. The application will state the nameplate capacity in alternating current (AC) of the solar PV electric generating system for which the rebate is sought.

OFFICIAL COPY

Sep 26 2023

RIDER SRR
SOLAR REBATE RIDER

The Customer may apply prior to installation of the generating system; in which case a written guarantee will be provided reserving the rebate. The Customer must complete the installation by the applicable deadline below.

For the January 2021 application window: Residential customers must complete installation by December 31, 2021. Non-residential and non-profit customers with a project under 20 kW must complete installation no later than 365 days from the date the rebate reservation was obtained. All other non-residential and non-profit customers must complete installation no later than 365 days from the date of an executed interconnection agreement by the Company.

Beginning with the July 2021 application window: Residential and non-residential customers with a project under 20 kW who obtain a rebate reservation in the July application window must complete installation by December 15 of the same year. Residential and non-residential customers with a project under 20 kW who obtain a rebate reservation in the January application window must complete installation by June 15 of the same year. Non-profit customers with a project under 20 kW must complete installation no later than 365 days from the date the rebate reservation was obtained. All other non-residential and non-profit customers must complete installation no later than 365 days from the date the rebate reservation was obtained or the date of an executed interconnection agreement by the Company, whichever is later.

If a residential customer receives a rebate reservation but does not complete installation by the deadline (June 15 for the January application window and December 15 for the July application window), then the customer's application and rebate eligibility will be canceled, and the resulting unused rebate capacity will be reallocated to customers on the waitlist. Waitlisted customers who are allocated unused capacity pursuant to this provision must complete installation by the deadline of the following application period.

To receive a rebate payment, the Customer must first submit a Certificate of Completion indicating that the installation is complete, and the Company must confirm that billing under an eligible rate schedule and Rider NM or NSC has commenced. The installation shall be subject to inspection and verification at any time, upon request by Company.

SOLAR REBATE PAYMENT

The Customer shall receive a one-time Solar Rebate Payment based upon the AC nameplate rating of Customer's solar PV electric generating system. The incentive shall be limited not to exceed 10 kW_{AC} for residential solar installations and 100 kW_{AC} for non-residential solar installations. Pursuant to Net Metering Rider NM, the Customer's total installed capacity shall not be limited by the maximum rebate capacities.

Non-residential Customer Solar Rebate Payment: $0.30 per watt[1]
Residential Customer Solar Rebate Payment: $0.40 per watt[1]

Non-Profit customers shall receive a one-time Solar Rebate Payment of $0.75 per watt times the AC nameplate rating of the Customer's solar PV electric generating system.

[1] Payments effective beginning with the July 2021 program enrollment

RENEWABLE ENERGY CERTIFICATES (GREEN TAGS)

For any customer receiving service under a non-time of use demand rate schedule, any renewable energy credits (RECs) shall be retained by the Company.

CONTRACT PERIOD

The Contract Period for service under this Rider shall be ten (10) years from the date of initial participation. If the system is removed, rendered inoperable, the agreement for electric service is terminated, or electric service is discontinued under rate schedule as prescribed in availability section of this Rider prior to 120 months, an early termination charge may apply unless the termination is for good cause. Good cause includes any act or circumstance, resulting in early termination, which is beyond the control of the Customer.

If within ninety (90) days of electric service termination a new customer takes over the site and elects electric service and assumes

OFFICIAL COPY

Sep 26 2023

RIDER SRR
SOLAR REBATE RIDER

the Customer's obligations under this Rider, including but not limited to continued electric service under an eligible rate schedule and Rider NM or NSC, the termination charges will be waived.

An early termination charge shall equal to one minus the number of months since initial participation divided by one hundred and twenty (120) multiplied by the rebate payment amount.

Early Termination Calculation: (1 - (# of Participating Months / 120)) * Rebate Payment Amount

Company reserves the right to terminate service under this Rider at any time upon written notice to Customer in the event that Customer intentionally violates any of the terms or conditions of this Rider, or operates the generating system in a manner which is detrimental to Company and/or its customers and fails to correct such operation. Company may also terminate service under this Rider and request repayment of Solar Rebate Payment if Customer intentionally misstates or misrepresents the operating capacity or operating characteristics of the solar PV electric generating system during the Contract Period.

METERING REQUIREMENTS

The Customer grants the Company the right, at the Company's cost, to install, operate, and monitor special equipment to measure Customer's load, generating system output, or any part thereof and to obtain any other data necessary to determine the operating characteristics and effects of the installation. Customer must provide access and designate a location on the load side of the Company's billing meter for Company to furnish, install, own and maintain metering with capability to record 100% of Customer's generator output. All metering shall be at a location that is readily accessible by Company.

GENERAL

Customer shall comply with all applicable standards and requirements for interconnecting generation with electric power systems. Company agrees to comply with all state registration and reporting requirements associated with RECs while Customer receives service under this Rider. The terms, conditions and provision of this Rider are subject to change upon approval by the state regulatory commission.

Company decisions may be appealed by the Customer contacting or filing an informal complaint with the Public Staff of the North Carolina Utilities Commission (Public Staff) or by filing a formal complaint with the North Carolina Utilities Commission. The Public Staff may be contacted by e-mail at Consumer.Services@psncuc nc.gov or by telephone at 866-380-9816.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 175

OFFICIAL COPY

Sep 26 2023

CUSTOMER ASSISTANCE PROGRAM (CAP) CREDIT

APPLICABILITY

The monthly bill credit shown below will be available to all residential service schedules for customers who are approved for either Low Income Energy Assistance Program (LIEAP) or Crisis Intervention Program (CIP) administered by the North Carolina Department of Health and Human Services (DHHS). The Company will receive a list of recipients from DHHS and automatically apply the credit to the customer's bill. The customer will receive the credit for 12 billing months.

MONTHLY RATE

The applicable monthly bill credit is $42. The monthly bill credit cannot reduce a customer's bill below the Basic Customer Charge.

OFFICIAL COPY

Sep 26 2023

REMOTE METER READING AND USAGE DATA SERVICE

AVAILABILITY

Remote meter reading and usage data service are available for establishments receiving service on a Duke Energy Carolinas retail non-residential rate schedule. This service is available for purposes including, but not limited to summary billing, inaccessible meters, and customer requested usage data.

RATE

A. Remote Meter Reading — $25.00 per meter per month*
$20.00 per communication line per month*

The Company will provide a metering device that will allow remote meter reading. For customers served under this program prior to March 17, 2009 who provide a dedicated telephone line, the communication line charge above will not apply until such time as a meter change is required. When the meter is changed, the Company will provide the communication line at the rate set forth above and the customer may discontinue the dedicated telephone line.

B. Remote Meter Reading and Usage Data Services

The Company will provide a communication line and metering device that will allow remote meter reading, and will provide usage data to the Customer, using internet based technology, or other methods as available and utilized at the Company's discretion, under one of the following options based on frequency of the data provided.

1. Next Business Day Data — $45.00 per meter per month for the meter and communication line*, plus
$10.00 per month per meter for data

Next Business Day Data is currently provided through the Energy Profiler Online (EPO) program. EPO is an Internet-based program permitting Customer access to historic meter data from any Internet capable location. Meter data is updated each business day and is available through the previous day. Access to meter data is both identification/name and password restricted.

2. Real-Time Data

Monthly Service Payment = Levelized Capital Cost + Expenses

Where:

Levelized Capital Cost is equal to the present value of all estimated capital related cash flows for a period corresponding to the depreciable life of the equipment, adjusted to a pre-tax amount and converted to a uniform monthly payment. The estimated capital cash flows shall include installed cost of equipment, salvage value, contingency allowances, property taxes, adjustment to reflect supporting investment of general plant nature, and income tax impacts.

Expenses shall equal the present value of estimated expenses associated with the support and maintenance of the equipment, adjusted to a pre-tax amount and converted to a uniform monthly payment for a period corresponding to the depreciable life of the equipment. The estimated expenses shall include administrative and general expenses, expenses for labor and materials related to operations and maintenance, third party expenses for operations and maintenance, warranties, insurance, annual costs associated with energy information storage and retrieval, other costs related to the operation and support of the equipment installation and income tax impacts.

The after-tax cost of capital from the Company's most recent general rate case will be used to convert present values to uniform monthly payments.

*Charges for remote metering and a communication line will not apply under this program when the Company, at its own option, has determined that remote metering facilities are necessary for the Company's own use. These charges, as well as charges for data if applicable, will not apply under this program when provided under another rate schedule or rider.

OFFICIAL COPY

Sep 26 2023

REMOTE METER READING AND USAGE DATA SERVICE

PAYMENT

Bills for this service are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT

The original term of this contract shall be one (1) year; however, the Company may offer or require an agreement under Option B.2. with an original term of up to 10 years. All contracts under this program shall continue thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter, by giving at least 30 days previous notice of such termination in writing. In the event of early termination of a contract under this program, the Customer will be required to pay the Company a termination charge which shall be the net present value of monthly charge, less the monthly ongoing costs for the communications, for the remainder of the term of contract. However, if any successor customer has requested service at the premises under this program prior to the effective date of the termination, the termination charge will be waived or reduced based on the contract term of the successor customer.

OFFICIAL COPY

Sep 26 2023

DISTRIBUTION LINE EXTENSION PLAN

I. APPLICABILITY

This Plan is applicable to distribution line extensions to all retail service, including the conversion of overhead distribution facilities to underground distribution facilities.

At the determination of the Company, in those areas where it is physically or economically infeasible, or impractical, to place facilities above-ground due to structural or geographical congestion or load density, the Company may place its facilities underground at its own option and expense.

II. DEFINITIONS

"Company" means Duke Energy Carolinas, LLC or any agent authorized to act on behalf of Duke Energy Carolinas, LLC.

"Customer" means the builder, developer, contractor, property owner or other entity requesting electrical facilities to be installed under this Plan.

"Distribution" refers to electrical facilities typically operating at 24 kV or below. In limited areas, the Company's Distribution system operates at 34 kV.

"Overhead facilities" means an electrical distribution system having all components installed above ground level.

"Underground facilities" means an electrical distribution system having some or all components installed below ground level.

"Standard design" means the most cost effective and reliable design using the Company's current engineering design and construction practices which will meet the electrical service requirements of the Customer. The standard design which is most cost effective may be facilities installed either overhead or underground.

"Permanent service" refers to on-going year-round electric service. For purposes of this Plan, the following types of customers or structures shall not be considered permanent service customers: temporary service customers, construction service customers, nonpermanent manufactured homes, and structures designed or used to provide mobility and/or nonpermanent living accommodations (including, but not limited to, boats, campers, motor homes, and recreational vehicles).

"Nonpermanent manufactured home" is a manufactured home that does not meet the following requirements:

1. It must be attached to a permanent foundation;
2. It must be connected to permanent water and sewer facilities;
3. It must be labeled as a structure which can be used as a permanent dwelling; and
4. The owner/occupant must either own the land on which the structure is installed or must have a recorded lease of at least 5 years' duration.

"Temporary service" refers to electric service to any residential or nonresidential customer that will not result in permanent electric service and the Company's facilities installed to serve the Customer shall not be needed to serve other customers in the near future. Customers requesting electric service to vehicles or structures designed or used to provide mobility and/or nonpermanent living accommodations (including, but not limited to, boats, campers, motor homes, and recreational vehicles), rock crushers, asphalt plants, carnivals, fairs and other nonpermanent installations shall also be classified as temporary service customers.

"Secondary/service facilities" refers to equipment necessary to provide distribution secondary voltage from the low side of the Company's transformer to the point of delivery. Secondary facilities refers to equipment installed off-site or up to the last structure on-site, and service facilities refers to equipment installed on-site or from the last structure to the point of delivery.

"Construction cost" is the Company's estimated installed cost of constructing all necessary facilities to the point(s) of delivery, including but not limited to the cost of materials, labor, transportation, stores, tax, engineering, overheads and general expenses, exclusive of any abnormal installation costs.

When applied to temporary service and electric service to nonpermanent manufactured homes, the construction cost shall also include the removal costs minus the salvage value of the facilities. When it is necessary to remove, relocate, or rearrange existing Company facilities, the construction cost shall also include the removal cost of existing Company facilities, plus the rearrangement cost of existing Company facilities, minus the salvage value of any existing Company facilities being removed.

OFFICIAL COPY

Sep 26 2023

DISTRIBUTION LINE EXTENSION PLAN

"Contribution in aid of construction" ("CIAC") is a charge for the installed cost of facilities in excess of those provided without charge, based on standard design and paid to the Company by the Customer. Contributions in aid of construction may include the income tax effects to the Company of such contributions and be subject to applicable state sales tax.

"Normal point of delivery" for overhead residential service is on the outside wall of the end of the building nearest to the source of the Company's facilities entering the property where the Company's conductors meet the Customer's conductors at the drip loop before the weatherhead. The normal point of delivery for all other customers shall be at a location designated by the Company.

"Real estate development" means a planned residential development consisting of four or more contiguous lots or service to a commercial or industrial development, manufactured home park, apartment complex, planned area development, or other similar type development, properly recorded with the appropriate county registry, where permanent electric service will be provided to four or more customers.

"Idle facilities" are those facilities for which installation is requested, but in the Company's judgment are associated with a real estate development that is not likely to be occupied within a reasonable period of time.

III. COST ESTIMATES

For the purpose of determining the amount of any charges required from the Customer under the provisions of this Plan, estimates of the cost of the Company's facilities shall be made in accordance with the Company's current engineering and construction practices and shall be based on the appropriate conductor and transformer capacity required for the electrical load specified by the Customer.

If a detailed engineering study is necessary to determine the estimated cost of the requested installation, the Customer requesting the study shall pay the estimated cost to perform the detailed engineering study prior to the commencement of the study.

- If the Customer accepts and implements the results of the study, the cost of the study will be credited against any charge required from the Customer under this plan or refunded to the extent that a contribution in aid of construction is not required.
- If the Customer does not agree to proceed with the installation of facilities and pay any applicable contribution in aid of construction within one year of the date of the study, the cost paid for the study shall not be refunded to the Customer.

IV. EXTENSIONS FOR NEW INSTALLATIONS RECEIVING PERMANENT SERVICE

Facilities of a standard design will be provided pursuant to the Company's Service Regulations. When the investment required to provide the requested facilities does not produce sufficient revenue to support the investment, the Company will require a contribution in aid of construction if applicable as follows:

1. RESIDENTIAL SECONDARY/SERVICE FACILITIES EXTENSIONS

Residential secondary/service facilities of a standard design provided for service under a residential rate schedule:

Overhead secondary/service facilities to the normal point of delivery.	No Charge
Underground secondary/service facilities to the normal point of delivery service from an overhead and/or underground source.	No Charge

2. NONRESIDENTIAL SERVICE SECONDARY/SERVICE FACILITIES EXTENSIONS

Nonresidential secondary/service facilities of a standard design provided for service under a nonresidential rate schedule:

For the first 500 feet of overhead and/or underground secondary/service facilities to the normal point of delivery served from an overhead or underground source.	No Charge

OFFICIAL COPY

Sep 26 2023

DISTRIBUTION LINE EXTENSION PLAN

For all over 500 feet of overhead and/or underground secondary/service facilities to the normal point of delivery served from an underground source.	Installed cost of the requested facilities in excess of 500 feet less applicable revenue credits* (See Section VIII. Revenue Credits)

3. PRIMARY FACILITIES EXTENSIONS

Primary facilities extensions of a standard design:

Primary facilities	Installed cost of the requested facilities less applicable revenue credits* (See Section VIII. Revenue Credits)

*A contribution in aid of construction will not be charged when, in the Company's sole determination, the resulting charge is less than the administrative cost of billing and collection.

4. ADDITIONAL CHARGES

In addition to applicable costs under Section IV. 1, 2 or 3 above, if the Customer requests a design other than the Company's standard design, or if the Owner requests a delivery point other than the normal point of delivery, any resulting additional expenses shall be paid to the Company by the Customer. Customers requesting either a standard or a nonstandard design may also be subject to additional charges based on circumstances set forth under Section IX. General Provisions.

5. NONRESIDENTIAL DEVELOPMENTS AND PLANNED AREA DEVELOPMENTS

At the developer's request, the Company will construct, own, operate, and maintain overhead and/or underground distribution facilities to provide a basic distribution system within the Real Estate Development in which it is contemplated that individual lots will be sold or leased. The developer requesting the basic distribution system shall pay any amount by which the Construction Cost exceeds the estimated Revenue Credit (see Section VIII.) from the development, plus any estimated abnormal installation costs as determined by the Company.

V. EXTENSIONS FOR NEW INSTALLATIONS RECEIVING TEMPORARY SERVICE

For the purpose of this Plan, the following types of customers or structures shall not be considered permanent service customers: temporary service customers, nonpermanent manufactured homes, and structures designed or used to provide mobility and/or nonpermanent living accommodations (including, but not limited to, boats, campers, motor homes, and recreational vehicles).

A Customer, whose electric service needs will not result in permanent electric service and the Company's facilities installed to serve the Customer shall not be needed to serve other customers in the near future, shall pay for the actual cost of connection and disconnection. The cost shall include the total installed cost, plus removal cost, less salvage value of the facilities removed.

VI. CHANGES TO THE SERVICE INVOLVING UPGRADES, RELOCATIONS OR REMOVAL OF SERVICE

With respect to any service, after a service installation has been made, it may be changed by the Company upon request of the Customer. The Customer must pay the cost of the change unless anticipated additional revenue resulting from new or increased load made possible by the change in the service is sufficient to support the investment to change the facilities. When the requested change results in incremental revenue to the Company, the cost of the change will be reduced by the expected additional revenue over the initial three (3) years following the change for distribution facilities. The change will not be made where it will interfere with or jeopardize the Company's service either to the Customer desiring the change or to any other customer or customers. A service change includes, but is not limited to, an upgrade in the facilities required to serve the customer, a change in the voltage or the delivery point, any relocation of facilities, or removal of facilities. Changes involving the conversion of overhead facilities to underground facilities are described in Section VII. Conversion to Underground. The Customer will not be charged (a) for temporary disconnection and later reconnection of a service line during normal business hours to allow a tree to be cut or to allow electrical work; (b) for removal of a service line during normal business hours; or (c) to move a service line from one meter base to another essentially in the same location. Additionally, the customer will not be charged for removal of facilities on the customer's premises that are not currently used and useful, where there is no expectation that the facilities will be used and useful in the foreseeable future, so long as (a) the original term of the contract has been

OFFICIAL COPY
Sep 26 2023

DISTRIBUTION LINE EXTENSION PLAN

fulfilled, and (b) removal of the facilities would not result in loss of service rights to another utility.

VII. CONVERSION TO UNDERGROUND

The Company may, at its option, replace an existing overhead distribution system with an underground system in an existing residential development or other area under the following terms and conditions:

1. The Company shall place facilities underground by an agreement with the requesting persons which provides for payment of a nonrefundable, contribution-in-aid-of-construction as follows:
   a. When the existing overhead distribution system is not adequate to supply the customer's load due to added electrical load, the contribution in aid of construction shall be equal to the cost difference between comparable overhead and underground facilities.
   b. When the existing overhead distribution system is adequate to supply the customer's load, the contribution in aid of construction shall be equal to the cost of comparable underground facilities, less any salvage value of the overhead system.
2. Preliminary engineering studies are necessary to determine the approximate costs of replacing overhead with underground facilities under the provisions set forth in Section III. Cost Estimates.
3. The Company need not replace existing overhead systems with underground facilities, except individual services from pole to residence, unless at least one block or 1,000 feet of front lot line is involved, whichever is less.
4. All customers served directly from the specific section of line or in the area to be replaced with underground facilities shall agree to the conditions outlined for replacement of overhead facilities.
5. Customers shall arrange the wiring of their structures to receive underground service at meter locations which allow unimpeded installation of the underground service facilities.
6. Outdoor lighting service and conversion to underground facilities shall be in accordance with the Company's Outdoor Lighting Service Regulations and outdoor lighting rate schedules.

VIII. REVENUE CREDITS

A credit based on expected revenue as outlined below will be applied to any required contribution in aid of construction under Sections IV. and VII. Revenue credits shall not apply to nonstandard design or any other charges set forth under Section IX. General Provisions.

For initial service to an individually metered single family residence or permanently installed manufactured home, under Section IV.	The Contribution in Aid of Construction, if any, shall be the installed cost less the expected revenue over the initial five (5) years following installation, but not less than zero.
For initial service to permanent multi-family or other residential developments under Section IV.	The Contribution in Aid of Construction, if any, cost shall be the installed cost less the expected revenue over the initial three (3) years following installation, but not less than zero
For initial service to all nonresidential customers under Section IV.	The Contribution in Aid of Construction, if any, shall be the installed cost less the expected revenue over the initial three (3) years following installation, but not less than zero.

IX. GENERAL PROVISIONS

1. Prior to the installation of overhead or underground facilities, the customer must provide satisfactory right of way for the installation of service pursuant to the Company's Service Regulations.
2. In areas established as underground served by the Company due to the presence of existing or proposed underground facilities, or where there are other requirements placed on the Company's installation (e.g. municipal ordinances or recorded

OFFICIAL COPY
Sep 26 2023

DISTRIBUTION LINE EXTENSION PLAN

development restrictions), the Customer must agree to receive underground service and, payment for such costs under this Plan shall be made to the Company by the Customer.

3. Facilities associated with an underground distribution system, other than the conductors, may be installed above or below ground level as determined solely by the Company in accord with the current construction design practices of the Company.

4. Prior to the installation of the underground distribution system by the Company, the property boundaries and the final grade levels of the electrical facilities routes shall be established by the Customer. If (a) the property boundaries or the final grade levels of the electrical facilities routes change after the installation of facilities has begun, or (b) the installation of electrical facilities is required by the Customer before property boundaries or final grade levels are established, or (c) conduit, where required is improperly installed, and therefore any of these conditions results in additional expenses to the Company, payment for such costs shall be paid to the Company by the Customer.

5. The Customer shall coordinate the site development process with the installation of underground electrical facilities to permit unimpeded installation of underground facilities at proper depths and before streets, curbs, or other obstructions are installed, and to eliminate dig-ins to the underground electrical facilities after installation. The Customer shall install conduit as specified by the Company to meet design standards and specifications. If streets, curbs or other obstacles are present prior to installation of underground facilities, or conduit is improperly installed and therefore any of these conditions result in additional expenses to the Company, payment for such costs shall be paid to the Company by the Customer.

6. The Customer shall remove all obstructions from the route along which the Company's facilities are to be installed and provide notification to the Company when the site is ready for the installation of primary and/or secondary/service facilities. If Company personnel arrive at the site prepared to begin or continue installation and the site is not ready, payment of any additional costs shall be paid to the Company by the Customer.

7. If existing sidewalks, or other man-made obstructions, result in additional costs, payment for such costs shall be made the Company by the Customer by the owner.

8. Actual costs brought about in connection with the compliance of special requirements, if any, of municipalities, State and Federal agencies or departments or other agencies shall be paid to the Company by the Customer.

9. The Company will make, or adjust, charges to the Customer to collect the actual additional costs to the Company due to adverse conditions, including but not limited to the following: (a) the composition of the land where the facilities are to be installed, (b) the property is encumbered in any way such that standard construction equipment cannot be used (c) special equipment and materials are needed for stream crossing structures or concrete structures; (d) dynamite or other rock breaking measures are required, or (e) if abrupt changes in final grade levels exceed a slope ratio of one (1) when measured within three (3) feet of the trench.

10. Prior to the installation of facilities, payments required from the Customer under the provisions of this Plan shall be paid in full or under payment terms acceptable to the Company.

11. The Company shall exercise care in the utilization of its underground equipment during construction, but the Customer shall be responsible for the protection of shrubs, trees, and grass sod, or any other foliage or property located within the right of way. The Customer shall be responsible for all such items and for reseeding or resodding the trench cover. The Customer shall provide continuing and unimpeded access to the Company for the operation, maintenance and replacement of the Company facilities. Shrubs, trees, or any other obstacle which would hinder the access of the Company at any time shall not be placed within ten feet of transformer or cabinet openings which would hinder the access of the Company at any time.

12. The Company shall not be responsible for repair or replacement of underground facilities owned by others that are damaged during installation of the Company facilities if such facilities were not properly identified and marked by the Customer prior to construction.

13. Underground conductors to provide standard service to Company-owned outdoor lighting will be furnished under the applicable rate schedule on file with and approved by the Commission; however, the Customer shall pay the Company for any additional costs as set forth in the General Provisions of this Plan.

14. The Company will provide and coordinate underground service facilities with other requested facilities which are supplied

OFFICIAL COPY
Sep 26 2023

DISTRIBUTION LINE EXTENSION PLAN

under the Extra Facilities provision of the Company's Service Regulations.

15. The Company may, in its discretion, limit installation of the Company's electrical facilities which serve a real estate development to that area which, in the Company's opinion, is likely to be occupied within a reasonable period of time, in order to avoid excess investment in idle facilities. The Customer may request installation of facilities in the additional area(s) by paying the applicable cost under this Plan for the development as a whole plus an Idle Facilities Deposit. In lieu of such deposit and solely at the Company's option, an approved alternative financial instrument may be used as security. The Idle Facilities Deposit will be based on the cost to install facilities for the area(s) deemed not likely to be occupied in a reasonable time less applicable costs under this Plan. Idle Facilities Deposits will be reviewed annually by the Company and will be refunded, based on the pro-rata portion of the Company's idle facilities needed to serve Customer during the preceding 12 months. Any deposit held by the Company for five (5) years or more shall not be refunded.

16. In areas where the Company's standard design requires that underground conductors be placed in concrete-encased duct systems, typically designated downtown areas, the Company will bear the expense of the concrete-encased duct system on public easements. Where the design to meet the owner's request requires the concrete-encased duct system to be extended onto private property, the owner will provide, or will make payment to the Company for, the appropriate concrete-encased duct system to the Company's specification.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

Foreword

The Service Regulations of the Company are filed with the Commission having jurisdiction over public utilities. The regulations are presented here and are incorporated by reference in each contract or agreement for electric service.

Definitions

Duke Energy Carolinas is referred to herein as the "Company", and the user or prospective user is referred to as the "Customer". The North Carolina Utilities Commission is referred to as the "Commission".

I. Service Agreement

Electric service will be supplied under (a) the Company's standard form of application, service agreement, or contract, (b) the applicable rate schedule or schedules, and (c) these service regulations, unless otherwise specified in any particular rate schedule or contract on file with and approved by the Commission. The Company shall not be required to supply service unless and until such agreement is executed by the Customer and the Company. It is understood and agreed that no promise, statement or representation by an agent, employee or other person shall be binding upon the Company unless it is in writing and attached to and made a part of the agreement. However, when the requested supply of electricity is for residential use, or for nonresidential use under contracts of two thousand kilowatts (2000 kW) or less, and no additional charges are involved, the Customer's application or agreement may be verbal. When the application or agreement is verbal, the Company's applicable rate schedules, riders, and these Service Regulations will be effective in the same manner as if the Company's standard form of application or agreement had been signed by the Customer and accepted by the Company. A verbal service agreement shall be presumed when there is no written application by a Customer, if electricity supplied by the Company is used by the Customer or on the Customer's premises.

Cancellation of Agreement for Nonresidential Service at Customer's Request

Unless otherwise provided in the rate schedule and/or rider(s) under which the Customer is served, if the Customer requests an amendment to or termination of the agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company as an early termination charge the lower of:

a. The net present value of the monthly minimum bills, including, but not limited to, basic facilities, demand, and extra facilities charges, for the remaining term under the agreement less the expected net present value of the monthly minimum bills for the initial term of contract of any successor customer who has applied for service at the premises prior to the effective date of the contract amendment or termination, provided, however, this amount shall not be less than zero.

or

b. The loss due to early retirement ("LDER") of all transmission and distribution facilities specifically installed by the Company in order to provide the Customer with electric service under the agreement that will not be utilized by any successor customer who has applied for service at the premises prior to the effective date of the contract amendment or termination. The LDER amount shall be calculated as the installed cost of such facilities less accumulated depreciation, less any salvage value, plus removal cost, provided, however, this amount shall not be less than zero.

Agreement Personal

The rights of the Customer under the agreement are personal and shall not be transferred or assigned by the Customer without the written consent of the Company.

Service Used in Advance

If service is used by the Customer before the application or agreement is completed, the service shall be governed by these regulations and the appropriate rate schedule. The Company may discontinue service at any time upon failure or refusal of the Customer to complete the application or agreement and pay in full the amount due for the service to that date.

Vacated Premises

The Customer will notify the Company before quitting or vacating the premises served under the agreement, and will pay upon presentation, all bills due, including any early termination charges, under all agreements.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

II. New Service

Deposit

Since an accumulation of unpaid bills would tend toward higher rates for all customers, the Company may require a deposit before beginning service or before reestablishing service or in the event of a material change of circumstances as allowed by the Rules and Regulations of the Commission. The amount of the deposit and the interest paid on deposits will be in accordance with the Rules and Regulations of the Commission. The Company may require an increase or allow a decrease in the deposit if changes occur in the amount of bills rendered to the Customer. The Company may refund a deposit at any time. When service is discontinued, the Company will refund the deposit plus any accumulated interest, less any unpaid bills.

Connection Charge

When the Company first supplies electricity under a metered rate schedule, the Customer shall pay the Company a connection charge of $8.00. This charge shall become a part of the first bill rendered to Customer for electricity supplied at such premises. The connection charge applies to any new service set up which requires reading the meter, installing a meter, connecting a meter or installing new facilities. The charge does not apply to outdoor lighting rates schedules and does not apply to meter changes due to a change in rate schedule.

III. Customer's Wiring and Equipment

Equipment which will operate in one location may not operate in another location due to difference in voltage, phase, or frequency of electric service. The Customer shall give the Company notice and shall determine type of service available at the premises before wiring or purchasing equipment. The Company may specify the voltage and type of electric service to be furnished, and may also specify the location of the meter and the point where the service connection shall be made.

All the Customer's wiring and equipment must be installed and maintained in accordance with the requirements of the local municipal and state authorities; otherwise, the Company may refuse to connect service or may discontinue service to the Customer. The Customer shall keep in repair all such wiring and equipment to the point of connection with the facilities of the Company.

Changes in Customer's Wiring and Equipment

The Customer shall not use any equipment, appliance or device, or permit the continuation of any condition which tends to create any hazard or otherwise adversely affect the Company's service to the Customer or other customers, without written consent of the Company. When polyphase service is used by any customer, the Customer shall control the use of service so that the load will be maintained in reasonable electrical balance between the phases at the point of delivery.

The Customer shall give the Company reasonable notice in writing of any anticipated increase in demand exceeding 20 kW or 10% of the former demand, whichever is greater. The notice shall state the approximate increase and the date required. If the Company determines the unexpired term of the agreement is sufficient to justify the additional investment required, the Company will endeavor to provide additional capacity for any increase requested by the Customer within 90 days of said notice. If Customer increases his load without adequate notice to Company, and without receiving Company's consent, and such unauthorized increase causes loss of or damage to Company's facilities, the cost of making good such loss or repairing such damage shall be paid by Customer.

The Company will extend its facilities and change the point of delivery only when the investment required is warranted by the anticipated revenue and when the extension is permissible and feasible.

IV. Access to Customer's Premises

The Company shall at all reasonable times have the right of ingress to and egress from the premises of the Customer for any and all purposes connected with the delivery of service, or the exercise of any and all rights under the agreement.

V. Right of Way

The Customer shall at all times furnish the Company a satisfactory and lawful right of way easement over his premises for the construction, maintenance and operation of the Company's lines and apparatus necessary or incidental to the furnishing of service.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

The Customer shall also furnish satisfactory shelter for meters and other apparatus of the Company installed on the premises, except where the Company elects to install such equipment outdoors.

The Company may change the location of the right of way upon request of the Customer, and may require the Customer to pay the cost of the change. The change will not be made where it will interfere with or jeopardize the Company's service, either to the Customer requesting the change, or to any other customer or customers. All privileges of the Company related to the original location shall apply to the new location.

The obligation of the Company to supply service is dependent upon the Company securing and retaining all necessary rights-of-way, privileges, franchises or permits, for the delivery of such service and the Company shall not be liable to the Customer for any failure to deliver service because of the Company's inability to secure or retain such rights-of-way, privileges, franchises, or permits.

With respect right of way maintenance procedures, the Company shall, upon request, provide the customer written information concerning its methods for maintaining right-of-way clearances.

VI. Transmission, Distribution, and Service Facilities

The Company's transmission, distribution, and service facilities will be installed above ground on poles, towers, or other fixtures or underground. The Company will require a contribution in aid of construction when the investment required to provide the requested facilities does not produce sufficient revenue to support the investment. Distribution facilities will be installed in accordance with the Company's Distribution Line Extension Plan and the Company's Service Regulations, as approved by the Commission.

Service connections will be made as follows:

1. Where both the Company's lines and the Customer's entrance conductors are above ground, and where the service requires a transformer of 500 kVA or less:

   The Company will extend its service conductors to the Customer's building, terminating them on the outside of the building at a location to be provided by the Customer and satisfactory to the Company for this purpose. The location must be of sufficient height to satisfy the requirements of the National Electric Safety Code and of applicable local codes, and the strength of the structure at the point of termination must be satisfactory to the Company.

   The Customer will provide, install and own all self-contained meter sockets and current transformer enclosures, or the Customer may choose to provide and own a meter/switch enclosure (more commonly known as a house power panel). The Company will utilize and provide service through the Customer's meter/switch enclosure. The Company shall have exclusive control of and access to the metering installation under the following conditions:

   a. The meter/switch enclosure shall be in accordance with the Company's specifications.

   b. The wiring and connections are approved by the Company.

   c. The Customer agrees to allow the Company to open and inspect the meter/switch enclosure at any time.

   d. The Customer agrees to notify the Company and obtain permission before altering or performing maintenance inside the metering section of the meter/switch enclosure.

2. Where both the Company's lines and the Customer's entrance conductors are below ground, or when one is above ground and the other is below ground, or where the size of the Customer's demand or any unusual character of the Customer's location requires the service agreement between the Company and the Customer to be made on one of the Company's long-form Electric Power Contracts, the Company will make the necessary connections from its service conductors to the Customer's entrance conductors as in Section VI.1. above if applicable, or as in Section VI.3. below if applicable. If neither Section VI.1. nor Section VI.3. is applicable, the connection shall be at a point to be agreed upon by the Company and the Customer.

3. When, in the Company's opinion, an individual transformer installation is necessary to serve the Customer's demand and such demand exceeds the capacity of a pole-type transformer installation, the Company may require the Customer

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

to provide suitable outdoor space on his premises to accommodate a ground-type transformer installation. If the Customer is unable to provide outdoor space for a ground-type transformer installation, then the Company may require the Customer to provide a transformer vault on his premises.

a. When the Customer provides space for a ground-type, substation installation using overhead conductors, the point of delivery will be at a location determined by the Company. The Company may require the Customer to provide at the point of delivery, main disconnecting switches which shall control all of the Customer's load other than the fire pump circuit, if any.

b. When the customer provides space for a ground-type, pad mounted transformer installation using underground conductors, the Company will provide and install the transformer. The Customer will provide and install, to the Company's specifications, the concrete pad for the transformer installation. The point of connection with the Customer's entrance conductors will be at the secondary voltage terminals of the Company's transformer.

c. When the Customer provides a transformer vault, the vault shall be constructed in accordance with the Company's specifications, and shall meet the requirements of the National Electrical Safety Code and other applicable safety codes and ordinances. The location of the vault shall meet the Company's requirements for accessibility and ventilation. The Company will provide and install the transformers and necessary associated equipment including circuit breakers, switches, supporting structures for equipment, primary cable and secondary cable to the point of connection with the Customer's entrance conductors. The point of connection shall be 12 inches inside one of the walls of a submersible vault or will be at the secondary terminals of the transformer or the secondary bus in a dry vault. The Company will coordinate the transformer vault installation with its Distribution Line Extension Plan for the installation of the primary cable from the Customer's vault to the Company's existing distribution facilities.

4. With respect to any service, after a service installation has been made, it may be changed by the Company upon request of the Customer. The Customer must pay the cost of the change unless anticipated additional revenue resulting from new or increased load made possible by the change in the service is sufficient to support the investment to change the facilities. When the requested change results in incremental revenue to the Company, the cost of the change will be reduced by the expected additional revenue over the initial three (3) years as described in the Distribution Line Extension Plan and one (1) year following the change for transmission facilities. The change will not be made where it will interfere with or jeopardize the Company's service either to the Customer desiring the change or to any other customer or customers. A service change includes, but is not limited to, an upgrade in the facilities required to serve the customer, a change in the voltage or the delivery point, any relocation of facilities, or removal of facilities. Changes involving the conversion of overhead facilities to underground facilities are described in the Company's Distribution Line Extension Plan. The customer will not be charged (1) for temporary disconnection and later reconnection of a service line during normal business hours to allow a tree to be cut or to allow electrical work; (2) for removal of a service line during normal business hours; or (3) to move a service line from one meter base to another essentially in the same location. Additionally, the Customer will not be charged for removal of facilities on the Customer's premises that are not currently used and useful, where there is no expectation that the facilities will be used and useful in the foreseeable future, so long as (a) the original term of the contract has been fulfilled, and (b) removal of the facilities would not result in loss of service rights to another utility.

Ownership of Equipment

All conductors and conduits, inside work and equipment, switches, fuses, and circuit breakers, from the point of connection with the Company's service shall be installed and maintained by and at the expense of the Customer. All equipment furnished by the Company shall be and remain the property of the Company.

VII. Meters

The Company will furnish all necessary meters. When a delivery point is changed from one location to another, all expenses in connection with relocation of the meter shall be paid by the Customer. The Company shall have the right, at its option, and at its

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

own expense, to place demand meters, volt meters or other instruments on the premises of the Customer for the purpose of making tests with respect to the Customer's service.

Location of Meter

Meters for all residential service, and for all other service to the extent practicable, shall be located out-of-doors on the Customer's structure at a place which is suitable to the Customer, but which meets all of the Company's requirements for reading, testing, and servicing accessibility, and for safety.

Where it is not practicable, in the Company's opinion, to locate the meter and any associated apparatus out-of-doors, the Customer shall provide a suitable indoor location which meets all of the Company's requirements for reading, testing, and servicing accessibility, and for safety.

Failure or Inaccuracy of Meter

In case of the failure or inaccuracy of a meter, the Customer's bill, for the appropriate portion of the period of such failure or inaccuracy, shall be calculated to correct for billing error as provided in the Rules and Regulations of the Commission.

Meter Tests

The Company will test the meter serving the Customer's premises under the provisions provided for in the Rules and Regulations of the North Carolina Utilities Commission. When the Customer requests a meter test on a more frequent basis than that provided for in the Commission's rules, a charge of $50.00 will be made to the Customer for self-contained meters, and $65.00 for all other meters.

VIII. Meter Reading

Meters will be read and bills rendered monthly. Meter readings may be obtained manually on the customer's premises, or remotely using radio frequency or other automated meter reading technology. Billing statements will show the readings of the meter at the beginning and end of the billing period, except; however, when interval load data is used to determine the bill under certain rate schedules or riders, only the billing units may be shown.

Meters with a constant of one may be read to the nearest 10 kilowatt-hours except in the case of initial or final bills. For purposes of establishing billing demand and minimum bills, the nearest whole kW may be used.

Bills Due Where No Notice Received

The Company will endeavor to deliver to the Customer, by US mail, electronic mail, or messenger, a monthly statement of the amount due the Company by the Customer.

All bills are due and payable on the date of the bill, during regular business hours, at the office of the Company. Bills for residential and nonresidential service are past due and delinquent on the 25th day after the date of the bill.

Failure to receive a statement which has been properly mailed or hand-delivered will not entitle the Customer to any delay in paying the amount due beyond the date when the bill is due and payable.

The word "month" as used herein, and as used in the rate schedules of the Company means the period of time between the regular meter readings by the Company. Readings are taken each month at intervals of approximately 30 days.

Bills rendered for periods of less than 26 or more than 34 days and all initial and final bills rendered on a Customer's account will be prorated on the basis of a normal 30-day billing period; however, if an initial and final bill occur within the same billing month, no such proration will be made.

Where Meter Is Not Read

If, for any reason, a meter is not read at the regular reading time, the Company may estimate the amount of service used and make any adjustment which may be necessary in the bill rendered when the meter is next read. Or the Company may render the Customer a bill for a minimum charge and credit the Customer for this charge when the meter is read and bills computed for 30-day intervals.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

Offsets Against Bills

No claim or demand which the Customer may have against the Company shall be set off or counterclaimed against the payment of any sum of money due the Company by the Customer for services rendered. All such sums shall be paid in accordance with the agreement regardless of any claim or demand.

Adjustment of Billing Errors

In case of a billing error, the Customer's bill, for the appropriate portion of the period of such billing error, shall be calculated to correct for billing error as provided in the Rules and Regulations of the Commission.

IX. Responsibility Beyond Delivery Point

It is understood and agreed that the Company is merely a furnisher of electricity, deliverable at the point where it passes from the Company's wires to the service wires of the Customer, or through a divisional switch separating the Customer's wires and equipment from the Company's wires and equipment. The Company shall not be responsible for any damage or injury to the buildings, motors, apparatus, or other property of the Customer due to lightning, defects in wiring or other electrical installations, defective equipment or other cause not due to the negligence of the Company. The Company shall not be in any way responsible for the transmission, use or control of the electricity beyond the delivery point, and shall not be liable for any damage or injury to any person or property whatsoever, or death of any person or persons arising, accruing or resulting in any manner, from the receiving or use of said electricity.

Interference With Company Property

The Customer shall not interfere with, or alter the Company's meters, seals, or other property, or permit the same to be done by others than the Company's authorized agent or employee. Damage caused or permitted by the Customer to said property shall be paid for by the Customer. When unauthorized use of electric service is discovered, the Company may discontinue service and the Customer shall be required to pay for the estimated unauthorized usage, the costs of inspection, investigation, and reconnection before service is restored.

X. Resale Service

This contract is made and electricity is sold and delivered upon the express condition that electricity supplied by the Company shall be for the Customer's use only and the Customer shall not directly or indirectly sell or resell, assign, or otherwise dispose of the electricity or any part thereof, on a metered or unmetered basis to any person, firm or corporation except, (1) as provided for in North Carolina General Statutes ("G.S.") 62-110(h) regarding resale of electricity by landlords to residential tenants where the landlord has a separate lease for each bedroom in the unit, and where such landlord has complied with the requirements in Chapter 22 of the Rules and Regulations of the Commission, or (2) as may be exempt from regulation under G.S. 62-3(23)(d) and (h).

Under no circumstances will the Company supply electricity for resale in competition with the Company.

Customer Generation and Foreign Electricity

The Customer shall not use the Company's electric service in parallel with other electric service, nor shall other electric service be introduced on the premises of the Customer for use in conjunction with or as a supplement to the Company's electric service, without the written consent of the Company. Non-utility owned generation systems may be allowed to interconnect pursuant to the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission, and upon entering into a contract for such service under an applicable rate schedule and/or rider.

XI. Service Interruptions

The Company does not guarantee continuous service. It shall use reasonable diligence at all times to provide uninterrupted service, and to remove the cause or causes in the event of failure, interruption, reduction or suspension of service, but the Company shall not be liable for any loss or damage to a customer or customers resulting from such failure, interruption, single-phase condition,

OFFICIAL COPY
Sep 26 2023

SERVICE REGULATIONS

reduction or suspension of service which is due to any accident or other cause beyond its control, or to any of the following:

1. An emergency action due to an adverse condition or disturbance on the system of the Company, or on any other system directly or indirectly interconnected with it, which requires automatic or manual interruption of the supply of electricity to some customers or areas in order to limit the extent or damage of the adverse condition or disturbance, or to prevent damage to generating or transmission facilities, or to expedite restoration of service, or to effect a reduction in service to compensate for an emergency condition on an interconnected system.

2. An Act of God, or the public enemy, or insurrection, riot, civil disorder, fire, or earthquake, or an order from Federal, State, Municipal, County or other public authority.

3. Making necessary adjustments to, changes in, or repairs on its lines, substations, and facilities, and in cases where, in its opinion, the continuance of service to Customers' premises would endanger persons or property.

4. It is expressly understood and agreed that the Company does not contract to furnish power for pumping water for extinguishing fires. In the event that the Customer shall use said electric power, or any part thereof, for pumping water to be used for extinguishing fires, the Customer shall, at all times, keep on hand, or otherwise provide for, an adequate reserve supply of water so that it shall not be necessary to pump water by means of said electric power during a fire. It is expressly understood and agreed that the Company shall not, in any event, be liable to the Customer, nor to any of the inhabitants of any municipal consumer nor to any person, firm or corporation for any loss or injury of or to property or person by fire or fires occasioned by, or resulting directly or indirectly from the failure of any pump, pumping apparatus or appliances to operate, whether said failure shall be due to the act or omission of the Company or otherwise. It is the intention of the parties hereto that the Company shall not, in any event, be liable for any loss or damage occasioned by fire or fires which may be caused by, or result from the failure of the Company to supply electric power to operate such or any pump or pumping apparatus or appliances.

XII. Suspension, Denial or Discontinuance of Service

The Company, subject to the rules of the Commission, shall have the right to suspend its service for repairs or other necessary work on its lines, or system. In addition, the Company shall have the right to deny, suspend, or discontinue its service for any of the following reasons, provided the applicable statute of limitations is not exceeded and provided that the Company shall not suspend, deny or discontinue residential service for failure to pay outstanding bills for nonresidential service:

1. If a customer misrepresents his or her identity in a written or verbal agreement for service or receives service using another person's identity, except when a landlord as Customer provides electricity to a tenant as the user of the service in accordance with the "Provision of Electric Service by Landlord as Customer" section of these Service Regulations.

2. For violation by the Customer of any terms or conditions of the agreement between the Company and the Customer, or violation of any of these service regulations which are a part of the agreement.

3. For the reason that the Customer's use of the Company's service is detrimental to the service of other Customers.

4. For the reason that the Customer's use of the Company's service conflicts with, or violates orders, applicable ordinances or laws of the state or any subdivision thereof, or of the Commission having regulatory powers.

5. For the reason that wiring, equipment, appliance or device is installed or in use on the Customer's premises which permits the electricity to be used without passing through the Company's meter, or which prevents or interferes with the measuring of electricity by the Company's meter.

6. For the nonpayment of any bill, when due, for service rendered by the Company in the Customer's name at any location.

7. Upon failure or refusal of the Customer to make, restore or increase a deposit as required by the Company.

8. For the reason that the Company learns that at the time of application for service, a member of the household or business at the service location is indebted to the Company for service previously rendered in any area served by the Company.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

9. For the reason of a past due and unpaid balance for service rendered by the Company in the name of another person who resides with the Customer after service has been provided to the Customer's household, but only if one or more of the following apply:

    a. The Customer and the person were members of the same household at a different location when the unpaid balance for service was incurred.

    b. The person was a member of the Customer's current household when the service was established, and the person had an unpaid balance for service at that time.

    c. The person is or becomes responsible for the bill for the service to the Customer.

10. For the reason of a delinquent account for service rendered by the Company in the name of any other person who will reside in the Customer's household after the Customer receives the service, but only if one or more of the following apply:

    a. The Customer and the person were members of the same household at a different location when the unpaid balance for service was incurred.

    b. The person was a member of the Customer's current household when the service was established, and the person had an unpaid balance for service at that time.

11. For the reason that a Customer as landlord provides electricity to a tenant as user of the service in violation of the "Provision of Electric Service by Landlord as Customer" section of these Service Regulations.

Provision of Electric Service by Landlord as Customer

1. For rental properties served on a nonresidential rate schedule and for rental properties which are condominiums, manufactured home, or are houses served under a residential rate schedule with just one dwelling unit and having one lease per residential dwelling unit, a customer who is either a landlord or property manager may provide electricity to a tenant as an amenity included in the rent so long as the landlord or property manager does not impose any variable rental charges based upon the electric usage by the tenant or any other additional fees or charges related to the provision of electric service and otherwise complies with applicable law related to the provision of electric service under these circumstances. In this circumstance, the bill for electric service in the name of the landlord or property manager shall be issued to the landlord's mailing address and not the service address.

    a. Upon the Company's request, the landlord or property manager shall provide a copy of the lease agreement with the tenant or other documentation to confirm the rental arrangement complies with this service regulation.

    b. The landlord or property manager shall provide the tenant with notice that the tenant may request that the landlord or property manager authorize the tenant to receive a copy of any disconnection notice as provided for in NCUC Rule R12-11(n).

2. For residential rental properties with multiple dwelling units within a building and individual leases per dwelling unit, the landlord or property manager must either:

    a. Provide individual meters for each dwelling unit, with the utility accounts in the name of the tenants (customers) in compliance with the prohibition on master meters as provide in G.S. 143-151.42; or

    b. Qualify for an exception to G.S. 143-151.42. Exceptions may include a Commission ordered exemption, such as energy efficient central HVAC units, or buildings with construction permits issued prior to September 1, 1977, or landlord resale of electric service in compliance with G.S. 62-110(h).

Removal of Equipment

In the event of discontinuance of service or expiration of contract, then it shall be lawful for the Company to remove its meters, apparatus, appliances, fixtures, or other property.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

Waiver of Default

Any delay or omission on the part of the Company to exercise its right to discontinue or suspend service, or the acceptance of any part of any amount due, shall not be deemed a waiver by the Company of such right so long as any default in whole or in part or breach of contract on the part of the Customer shall continue, and whenever and as often as any default or breach of contract shall occur.

Reconnect Fee

In case of discontinuance of service for any reason except repairs or other necessary work by the Company, the Customer shall pay the Company a reconnect charge of $8.00 before service will be restored.

Returned Payment Charge

When a check, electronic check, bank draft, debit card or credit card tendered for payment of a Customer's account, is subsequently returned by a financial institution due to a failure of the issuer's financial institution to honor the payment for good and sufficient reason, a $5.00 fee will be charged to the Customer for each such returned payment. The Company, at its option for good cause, may refuse to accept a check, electronic check, debit card, or credit card tendered as payment on a Customer's account.

XIII. Unavoidable Cessation of Consumption

In the event the Customer's premises is destroyed by fire, natural disaster; or other casualty, or the operation of its plant is shut down because of strike, fire, natural disaster, or other cause beyond the Customer's control, making a complete cessation of service, then upon written notice by the Customer to the Company within 30 days thereafter, advising that the Customer intends to resume service as soon as possible, any minimum charge, or guarantee for which the Customer may be liable will be waived during the period of such cessation, and the contract shall be extended for a corresponding period. Otherwise, the agreement for service shall immediately terminate. When service has ceased under the described conditions, the Company shall have the right to (1) waive the collection of a deposit to reestablish service, (2) waive temporary service charges for temporary facilities or for reestablishment of service when such charges do not exceed a reasonable amount, (3) waive the collection of area lighting charges due to early termination of contract, and (4) waive the collection of a reconnection fee.

XIV. Copies

Schedules of rates, riders, copies of service regulations and information on right of way maintenance practices are available from the Company and from the Company's website. Forms of agreements and contracts are also available upon request.

XV. Changes

All agreements and contracts for service between the Company and its customers, including the rate schedules, riders, other programs and these Service Regulations, are subject to such changes and modifications from time to time as approved by the Commission or otherwise imposed by lawful authority.

XVI. Types of Service

The types of service supplied and the schedules applicable thereto are as follows:

1. Residential Service

The residential rate schedules are applicable to an individual residence, condominium, townhome, individually metered apartment, or, in accordance with the terms of Section XVI.2.a, a manufactured home, mobile home, or tiny home. The residential rate schedules shall be applicable to only one meter serving an individual residence.

The residential rate schedules are available for a single dwelling unit providing independent living facilities complete for living, sleeping, eating, cooking and sanitation. To qualify for a residential rate schedule, the dwelling unit must be connected to water and sewer facilities and labeled as a structure which can be used as a residential dwelling. If the structure does not meet the requirements of a residential dwelling unit, service will be provided on one of the general service rate schedules.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

Outbuildings, garages, swimming pools, water pumps, and other uses which form a part of the general living establishment on the same property with a residence may be connected to the residential service meter, or they may be separately metered; such separately metered services may be served on one of the residential service rate schedules as of January 1, 2024.

Individual meters shall be installed by the Company for each individual residence, condominium, manufactured home, housekeeping apartment, or housekeeping unit for which a permit was issued or construction started after September 1, 1977, in accordance with G.S. 143-151.42 which prohibits master metering. Exceptions must be approved by the Commission.

Residential service to two or more residences on the same property or to a residence or residences sub-divided into two or more individual housekeeping units may not be supplied through one meter on a residential rate schedule except as provided below:

Block Billing Under Residential Rate Schedules

a. If, for any reason, the wiring is so arranged by the Customer that rewiring for individual meters is not feasible, but a single meter must be used for two or more residences or units, then for billing purposes through this single meter, the Basic Facilities Charge and each kWh block of the rate schedule shall be multiplied by the number of residence units served.

b. Condominium units which were served as apartments through a single meter on a general service rate schedule before December 1, 1979, may continue to be served through one meter on a residential schedule; however, the Basic Facilities Charge and each kWh block of the rate schedule shall be multiplied by the number of residence units served.

2. Service to Manufactured, Mobile, and Tiny Home Parks, Recreational Parks, Portable Structures

a. Manufactured, Mobile, and Tiny Home Parks

Each space designated for the parking of manufactured homes, mobile homes, or tiny homes will be served through a separate meter for billing. Homes in manufactured, mobile, and/or tiny home parks that meet the requirements for a residential dwelling in Section XVI.1. above will be billed in accordance with the applicable residential rate schedule. Nonpermanent homes in manufactured, mobile, and tiny home parks will be provided service under Section XVI.15. Service connections will be the same as set forth in Section VI.1.

Energy used by the manufactured, mobile, or tiny home park in its office, service buildings, area lighting, water pumps, and other purposes connected with the operation of the park, including spaces designated for the overnight parking of homes in transit or awaiting assignment to separately metered spaces available within the park, may be served through a single meter, and will be billed in accordance with the applicable general service rate schedule.

b. Recreational Parks, Campgrounds and Marinas

Service to recreational parks, campgrounds and marinas may be supplied to each establishment at one delivery point, and energy used in its offices, service buildings, area lights, water pumps, individual service outlets at campsites and boat slips, and other purposes connected with its operation, will be billed through one meter in accordance with the applicable general service rate schedule.

Where a portable structure (travel trailer, camper, motor home, water craft etc.) occupies and remains at an individual site in a recreation park, marina or campground under a lease arrangement for twelve (12) months or longer and meets the requirements for a residential dwelling in Section XVI.1., the Company may, at its option, provide an individual delivery and meter the service at the structure. When a portable structure is set up permanently at a site and meets the requirements of a residence in Section XVI 1. above, energy used will be billed in accordance with the applicable residential rate schedule. Service connections will be the same as set forth in Section VI.1.

c. Locations other than Manufactured Home Parks, Recreational Parks, Campgrounds or Marinas

Service will be provided as set forth in Section XVI.15., except that if the Customer presents satisfactory evidence of meeting the requirements for a residential dwelling in Section XVI.1. and owns the property or, if rented, under a lease arrangement for 12 months or longer, service will be provided under a residential rate schedule. Service connections will be the same as set forth in Section VI.1.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

3. Residential Service to Group Facilities

Facilities designed to provide residential care or a group home in a residential structure for up to and including nine adults or children (excluding houseparent or caregiver) may be served on a residential rate schedule provided the facility is a single housekeeping unit and energy is used only by equipment which would normally be found in a residence. If the facility has a separate housekeeping unit for the caregiver, commercial cooking or laundry equipment, vending machines, or other equipment not normally found in a residence the facility will be served on a general service rate schedule.

4. Professional Offices or Business Activities in Residences

For residences involving some business, professional, or other gainful activity, a residential rate schedule will be permitted only where:

a. the electric energy used in connection with such activity is less than 15% of the total energy use; and

b. the electric energy is used only by equipment which would normally be used in a residence.

Conspicuous business soliciting devices about the premises may be *prima facie* evidence that 15% or more of total electric energy use is for the business activity.

If all of the foregoing conditions cannot be met, the entire premises shall be classified as nonresidential and an appropriate nonresidential rate schedule shall be applied.

The Customer may, at his option, provide separate circuits so that the residential uses can be metered separately and billed under a residential schedule and the other uses under a general service schedule.

For residences in which a Day Nursery is operated, a residential rate schedule will be permitted provided:

a. The operator and the operator's family, if any, live there.

b. The nursery requires no extra electrical equipment or space in addition to that normally required for the operator's family.

c. There are no conspicuous business soliciting devices about the premises.

If all of the foregoing conditions cannot be met, then the facility will be served on a general service rate schedule.

5. Farm and Rural Service

The residential rate schedules are available for service through one meter to the Customer's personal farm residence, and for the usual farm uses outside the dwelling unit, but not for commercial operations selling at retail, or for non-farming operations, or for the processing, preparing, or distributing of products not indigenous to that farm.

The residential farm service customer may, at his option, elect to take the entire service under one of the general service rate schedules, or he may provide separate circuits so that the residential dwelling unit, together with the usual farm uses outside the dwelling unit, can be metered and served under a residential rate schedule, and the other uses under a general service rate schedule.

6. General Service

General Service rate schedules are available to the individual customer for any purpose other than those excluded by the availability paragraph of the schedules, and they shall apply to the following:

a. Customers engaging in retail trade or personal service directly with the public such as hotels, motels, boarding houses; ("Boarding house" is defined as an establishment making a business of providing rooms and/or meals to the public in much the same manner as hotels and restaurants; or which has a license for operating such an establishment. This does not include homes taking in a small number of roomers and/or boarders, where the homeowner does not depend on the revenue there from as a principal source of income.)

b. Hospitals, nursing homes, institutional care facilities;

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

c. Office buildings, stores, shops, restaurants, service stations, and other commercial establishments;

d. Schools, dormitories, churches, and other nonresidential customers, and other non-industrial customers;

e. Energy used in a multi-family residential structure (other than the individual housekeeping units), such as hall lighting, laundry facilities, recreational facilities, etc.

f. Miscellaneous services with individual meters serving well pumps, signs, customer-owned lighting, garages, etc.

General Service rate schedules continue to be available for master-metered apartments constructed prior to September 1, 1977, (or after September 1, 1977 with Commission approval) where the establishment consists of:

a. one or more buildings, each three (3) or less stories in height, of three (3) or more individual apartment living units per building, located on contiguous premises and under single ownership, or

b. a single building, under single ownership, four (4) or more stories in height, containing three (3) or more individual housekeeping units,

provided there is no submetering, resale, conjunctional, or sub-billing, or separate charge to tenants for electricity by the landlord, nor any form of variable rental charge based upon the electric usage by any tenant.

Notwithstanding a. above, 10% or less of the total number of living units being served through the single meter may be of two units per building, but no single-family units which may be among the buildings in the establishment can be served through the single meter. The number of buildings and apartment units to be served through a single meter may not be greater than the number for which the developer has secured a construction loan or permanent mortgage as of the date of the contract, and proof of such commitment may be required. Additional units to be built on the original premises or on an adjoining premises, must be contracted for separately and served through a separate meter and served on the applicable general service rate schedule.

Upon mutual agreement by the Customer and the Company, service will be rendered through a single meter to multiple delivery points, with the Company owning the distribution facilities between the meter and the several delivery points as set forth under the Extra Facilities section of these Service Regulations.

Service through a single meter billed on a general service schedule is available only for general building use and residential use. Any tenant who could otherwise qualify for any of the Company's rate schedules other than residential must be served separately by the Company.

The landlord must enter into a contract with the Company for each establishment qualifying for the single meter general service rate schedule in a. or b. above, and the contract shall specify the number of buildings and the number of stories and apartment units within each building in the establishment, the total contract demand of the establishment, and the names of streets, roads, or other boundaries of the contiguous premises within which each establishment is located.

Service will normally be supplied separately to each establishment as determined by the Company.

7. Industrial Service

The industrial service rate schedule is available to customers classified as "Manufacturing" by the North American Industry Classification System ("NAICS"), and where more than 50% of the electric usage of such establishment is for its manufacturing processes.

8. Outdoor Lighting Service

Customer-owned outdoor lighting service may be connected to the residential, general service, or industrial service meter or it may be separately metered. Such separately metered services shall be served on the general service schedule. Where the Company owns and operates the lighting equipment, service will be provided under Schedule OL or NL.

9. Seasonal Service

Where the Customer's use of energy is seasonal, generally it will be to his advantage to keep his premises connected to the Company's lines throughout the year. Under certain rate schedules, the Customer may elect to contract for an annual minimum charge, rather than a monthly minimum charge, as outlined in the applicable schedules. The Company will disconnect the service

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

for a period of inactivity upon request but will make a disconnect charge of $15.00 if the service has been connected less than six (6) months.

10. Government and Municipal Service

The regular general service rate schedules are available for government and municipal service to facilities such as offices and schools. Schedule PL is available to governmental entities for street and public area lighting. Schedule TS is available to governmental entities for traffic and safety signals.

11. Time of Use Service

Time of use rates are optional and are available to residential and nonresidential customers.

12. Power Manager and PowerShare

These optional riders offer credits for contracting customers who provide a source of capacity to the Company when the Company requests interruption of service.

13. Breakdown and Standby Service

The Company does not supply breakdown or standby service, and service under its rate schedules may not be used for resale or exchange or in parallel with other electric power, or as a substitute for power contracted for or which may be contracted for, except at the option of the Company, under special terms and conditions expressed in writing in the contract with the Customer.

14. Net Metering

Net metering is available under Riders NM and SCG for installed customer generation systems and equipment that comply with the provisions outlined in the Interconnection Procedures.

15. Temporary Service

Temporary service for construction of buildings or other establishments which will receive permanent electric service from the Company's lines when completed will be provided under Schedule BC if single-phase service is supplied. Three phase service will be supplied under the applicable general service schedule.

As to temporary service for construction projects which will not result in permanent electric service, such as rock crushers, asphalt plants, mobile classrooms, carnivals, fairs, and other nonpermanent installations, installations will be provided on the general service schedule where the Customer agrees to pay the actual cost of connection and disconnection. The cost shall include payroll, transportation, and miscellaneous expense for both erection and dismantling of the temporary facilities, plus the cost of material used, less the salvage value of the material removed. A deposit may be required equal to the estimated cost of connection and disconnection plus the estimated billing on the applicable rate schedule for the period involved, with said deposit to be returned if the contract period is fulfilled.

As to vehicles or structures designed or used to provide mobility and/or nonpermanent living accommodations (including, but not limited to, boats, campers, motor homes, chassis mounted tiny homes or recreational vehicles), installations will be provided where the Customer agrees to pay the actual cost of connection and disconnection to include payroll, transportation and miscellaneous expense for both erection and dismantling of the temporary facilities, plus the cost of material used, less the salvage value of the material removed.

Extensions for new installations receiving temporary service are covered under Section V. of the Distribution Line Extension Plan.

16. Special Provisions

a. Equipment Protection

(1) Customer shall not utilize any equipment, appliance, or device which tends to affect adversely Company's supply of service to, or the use of service by, Customer or others. Customer shall not install gaseous discharge lighting with a power factor of less than 90% lagging. When polyphase service is supplied by Company, Customer shall control his use so that his load will be maintained in reasonable electrical balance between the phases at the point of delivery.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

Customer shall install and maintain devices adequate to protect his equipment against irregularities on Company's system, including devices to protect against single phasing. If the Customer does not prevent voltage fluctuations detrimental to the service, the Company may require the Customer to either discontinue the operation of the equipment or install the necessary motor-generator set or other apparatus to eliminate the disturbance to other customers.

Previously, the Company reserved the option to provide a separate transformer for the exclusive use of one customer where service to certain types of equipment may have created voltage disturbances on the Company's system. This service was metered and billed on the applicable rate schedule. In addition, the Customer was billed 30 cents per kVA per month for the separate transformer. This option is not available for new applications on and after January 1, 2024, but existing customers may continue to receive service under this rate.

(2) If the Company in its discretion determines that the installation of extra facilities or any associated equipment on the Company's side of the delivery point is impossible, infeasible or operationally unsatisfactory, and the Customer demonstrates that only available protective apparatus that it could install on its side of the delivery point to eliminate the disturbance constitutes an emerging technology, the Company and the Customer may agree to jointly implement the emerging technology. The Company may contribute up to 50% of the total cost to implement the emerging technology. The Customer shall enter into a new electric service agreement with the Company which shall have a minimum original term of 10 years. Any early termination fee shall include reimbursement of the Company's contribution on a pro-rata basis. The agreement may include provisions regarding the operating characteristics of the Customer's equipment and performance of the protective apparatus. If the emerging technology protective apparatus does not eliminate the disturbance to any other customer(s) or the Company's system, Section XVI.16.a.(1) above shall apply.

For the purposes of this section, "emerging technology" shall include uniquely designed equipment that has not yet been successfully implemented at three or more comparable facilities in the United States. The Company shall make the final determination as to what constitutes "emerging technology".

b. Selection of Rate Schedule

For certain classes of service, optional schedules are available which result in lower average prices to customers because of their usage characteristics. Since this use is under the control of the Customer, the amount of saving, if any, is also under his control and the choice of schedules, therefore, lies with him.

Upon request, investigation will be made, and assistance will be given to the Customer in selecting the rate which is most favorable to his condition and to determine whether the rate under which he is being billed is the most advantageous. The Company does not guarantee that each customer will be served under the most favorable rate at all times, and will not be responsible for notifying the Customer of the most advantageous rate. Not more than one change from one optional rate to another will be made within any 12-month period for any customer. In addition, when a Customer selects an optional rate with seasonal or time of use pricing, the Company reserve the right to restrict rate changes to once annually, on the anniversary date of the agreement for the optional rate. When a change is made from an optional rate to another, no refund will be made of the difference in charges under different rates applicable to the same class of service.

c. Extra Facilities

At the request of the Customer, the Company will furnish, install, own and maintain facilities which are in addition to those necessary for delivery of service at one point, through one meter, at one voltage, in accordance with the applicable rate schedule, such additional facilities to be furnished under an "Extra Facilities Clause" added to and made a part of the Company's standard form of contract and containing the following provisions:

(1) Service shall be used solely by the contracting Customer in a single enterprise located entirely on a single, contiguous premises, and there shall be no exemption from any of the other provisions of these Service Regulations.

(2) "Extra Facilities" shall consist of such of the following as may be required: voltage regulators, circuit breakers, duplicate service, transformers, substations, connecting lines, off-site facilities or other equipment installed for the use of the contracting Customer, other than facilities which the Company would furnish to the Customer without cost under its standard form of contract.

OFFICIAL COPY
Sep 26 2023

SERVICE REGULATIONS

(3) The facility to be supplied shall be Company standard overhead transmission or distribution, or transmission and distribution, equipment to be installed only on the Company side of the point of delivery.

(4) A monthly "Extra Facilities Charge" equal to 1.0% of the installed cost of the facilities, but not less than $25, shall be billed to the Customer in addition to the billing for energy, or for demand plus energy, in accordance with the applicable rate schedule. In lieu of the monthly charge above, at the Company's option, the Customer may elect to be billed under an alternative payment option to the 1.0% per month. The alternative payment option will be calculated such that the net present value of the payments made by the Customer under the alternative payment option will be equal to the net present value of the 1.0% per month payment option. Under such payment option the payment must be renewed after each 34-year period.

(5) The "installed cost of extra facilities" shall be the original cost of material used, including spare equipment, if any, plus applicable labor, transportation, stores, tax, engineering and general expenses, all estimated if not known. The original cost of materials used is the current market price of the equipment at the time the equipment is installed, whether said equipment is new or out of inventory.

(6) "Extra Facilities" shall include the installed cost of extra meters and associated equipment necessary to record demand and energy at the voltage delivered to the Customer. Upon mutual agreement between the Customer and the Company, demand and energy may be metered at primary voltage, without compensation for transformer loss, and without inclusion of any part of the metering cost as an extra facility. When extra facilities furnished include a voltage regulator, metering equipment shall be installed on the Company side of the regulator, or if this is not feasible, the meter shall be compensated so as to include registration of the regulator losses.

(7) When the extra facilities requested by the Customer consist of those required to furnish service at either more than one delivery point on the premises or at more than one voltage, or both, the installed cost of the extra facilities to be used in the computation of the Extra Facilities Charge shall be the difference between the installed cost of the facilities made necessary by the Customer's request, and the installed cost of the facilities which the Company would furnish without cost to the Customer under its standard form of contract.

(8) The Company shall have the option of refusing requests for extra facilities if, on its own determination, the requested facilities are not feasible, or may adversely affect the Company's service to other customers.

(9) Effective January 1, 2024, Contracts containing the Extra Facilities clause shall have a minimum original term of 10 years to continue from year to year thereafter, and may require advance payment of the Extra Facilities Charge for a period equal to one-half the original term of the contract. The Company will grandfather a minimum original term of five (5) years for any applicable projects underway prior to January 1, 2024.

(10) Customers from whom the Company may be furnishing extra facilities under contracts made prior to September 1, 1962 shall be exempted from all provisions of this Extra Facilities Clause except until such time as their contracts may expire, or are terminated by the Customer, or are terminated by the Company for reasons not related to the furnishing of extra facilities.

(11) In the event that an existing extra facility must be modified or replaced, whether or not such modification or replacement is requested by the affected extra facility Customer, then the installed cost of extra facilities on which the monthly Extra Facilities Charge is based shall be the installed cost of existing equipment, plus the installed cost of new additions, less the installed cost of equipment removed. The installed cost of existing equipment shall be the same installed cost used for said equipment immediately prior to the modification or replacement. The installed cost of new additions shall be the current market price of said new additions at the time the new additions are installed. The installed cost of equipment removed shall be the same installed cost used for said equipment immediately prior to removal.

OFFICIAL COPY

Sep 26 2023

OUTDOOR LIGHTING SERVICE REGULATIONS

1. APPLICATION

The Outdoor Lighting Service Regulations are applicable to service under Outdoor Lighting Service Schedule OL and Street & Public Lighting Schedule PL (collectively "Schedules" or individually "applicable Schedule").

2. SERVICE AGREEMENT

In order to assure certainty and uniformity of conditions, the Company will only supply outdoor lighting service under its uniform Service Agreement, consisting of (1) the Application for Lighting Service, (2) the applicable Schedule, and (3) the Outdoor Lighting Service Regulations.

3. DEFINITIONS

(a) "Dusk" is a period before nightfall and in the illumination of fixtures it will be considered as being approximately 30 minutes after sunset.

(b) "Dawn" is a period after daybreak and in the illumination of fixtures it will be considered as being approximately 30 minutes before sunrise.

(c) A "lighting-only pole or post" is any standard Company-owned pole or post installed as a part of its overhead lighting system and on which no other Company overhead distribution facilities are installed, or a pole or post installed as a part of its underground lighting system. If another utility or company has overhead conductors or equipment installed on a Company-owned pole or post used by the Company only for lighting, such pole or post will be classified as a lighting-only pole; however, if the Company installs its overhead lighting equipment on a pole or post owned by another utility, such pole or post will not be classified as a lighting-only pole or post.

(d) A "distribution pole" is a pole on which the Company has attached both lighting and overhead distribution facilities or a pole installed in conjunction with the lighting system to which only overhead distribution facilities are attached.

(e) "Standard luminaires" are luminaires billed under the standard monthly rate defined in the applicable Schedule.

(f) "Decorative luminaires" are luminaires with decorative lighting equipment billed under Section 9. Decorative Adder.

4. SYSTEM ACCESSIBILITY

The installation of new lighting fixtures or poles shall be in a location that is readily accessible by a Company truck to support installation and maintenance of Company facilities.

5. EXTENSIONS AND ADDITIONS

Company will extend its lighting system to supply additional lighting units at Customer's request and install the additional lighting units insofar as practical, in accordance with good engineering practice, at the locations Customer designates. Additional lighting units will be installed at the current monthly rates. If any overhead lighting unit is more than the maximum span distance for the overhead conductor required from the next adjacent lighting unit, the Customer will be responsible for the monthly cost of a lift pole to accommodate the additional span length. If the Company has to extend its overhead distribution system, the Customer will be responsible for the applicable fees associated with the installation of the new circuit.

6. FIXTURE FAILURE

Customer will be responsible for notifying the Company of any and all fixtures which are not operational. The Company shall have until dusk of five (5) business days following notice to repair or replace the fixtures. The time within which the Company will be able to commence or to complete the services to be performed is dependent on the Company's ability to secure the materials required and the Company shall not be responsible for failure to install these fixtures for such reason. For a fixture type and/or pole type restricted to existing installations and requiring major renovation or replacement, the fixture and/or pole shall be replaced by an available similar non-restricted fixture and/or pole and the Customer shall

OFFICIAL COPY

Sep 26 2023

OUTDOOR LIGHTING SERVICE REGULATIONS

commence being billed at a rate determined in accordance with all applicable fees of the renovated or replaced fixture and/or pole.

7. FIXTURE REPLACEMENT UPON CUSTOMER REQUEST AND TRANSITION FEES

At the Customer's request, the Company will attempt to replace any luminaire with a comparable luminaire, upon payment of any applicable transition fees, as described in this section. Once replaced, the Customer shall be responsible for the monthly rate of the new luminaire per the applicable Schedule and/or Section 9. Decorative Adder.

(a) Mercury Vapor

Mercury Vapor ("MV") luminaires are no longer available and will not be repaired if they fail. Company will replace any MV luminaire with a comparable Light Emitting Diode ("LED") luminaire, provided the pole or bracket will accommodate a LED luminaire as a replacement.

The Company will replace standard MV luminaires with LED luminaires by December 31, 2019 for Schedule OL customers and beginning January 1, 2020 through December 31, 2023 for Schedule PL customers, provided the pole or bracket will accommodate a LED luminaire as a replacement.

The Company will replace post top and decorative MV luminaires with LED luminaires by December 31, 2024.

(b) High Pressure Sodium Vapor and Metal Halide

Company will replace any High Pressure Sodium Vapor ("HPS") or Metal Halide ("MH") luminaire with a comparable LED luminaire upon payment to the Company of any applicable transition fees.

(1) For standard, non-floodlight luminaires, the transition fee shall be $50 for Schedule OL customers and $36 for Schedule PL customers, for each such luminaire to be replaced.

(2) For all floodlight luminaires, the transition fee shall be $101 for each such luminaire to be replaced.

(3) For decorative luminaires, the transition fee shall be calculated on a per-luminaire basis as the loss due to early retirement of the luminaire to be replaced when the Decorative Adder Fee is paid monthly.

(4) Customers shall not be charged a transition fee for HPS luminaires that are replaced due to fixture failure unless fixture failure is due to willful damage. Customers shall not be charged a transition fee for MH luminaires that are replaced due to failure of the ballast or luminaire.

(5) Schedule PL customers may choose to pay transition fees spread up to a four (4) year period, billed annually. The transition fees under this provision will be billed approximately in August each year for an applicable term.

(c) Light Emitting Diodes

Upon Customer's request, the Company will replace LED luminaires with another LED luminaire at the same location. If the LED luminaire being replaced has been in service less than 20 years and the original contract term has been fulfilled, there will be a fee of $40 paid in advance for each luminaire replaced. For LED luminaires that have been in service for 20 years or longer and initial contract terms have been fulfilled, the Company will, at no cost to the Customer, change the fixture at the same location under a new contract. For LED luminaires where the original contract term has not been fulfilled, the Customer shall pay the applicable termination fee under the original contract, and a transition fee will not be charged.

8. DECORATIVE ADDER

For decorative lighting equipment, in addition to the standard monthly rate in the applicable Schedule, the Customer shall pay a Decorative Adder Fee, either on a monthly basis or as an alternative payment option.

(a) Decorative lighting shall include all lighting equipment not listed in the Rate section of the applicable Schedule.

(b) The monthly charge for decorative lighting shall be the standard monthly rate in the applicable Schedule plus the Decorative Adder Fee. The Decorative Adder Fee shall be 1.0% of the difference between the estimated installed cost

OFFICIAL COPY

Sep 26 2023

OUTDOOR LIGHTING SERVICE REGULATIONS

of the decorative lighting and the estimated installed cost of the standard equivalent lighting equipment in the Rate section of the applicable Schedule.

(c) The alternative payment option shall be the net present value of the monthly fee calculated over a fixed term for the life of the equipment.

9. NONREFUNDABLE CONTRIBUTIONS

(a) In the event that rock, unstable soil, or other conditions require the use of materials and methods of installation other than Company's normal materials and methods, the Customer will contribute the additional cost except when the Service Extension Provision as stated below is applicable.

(b) Customer will contribute the estimated cost of installing cables under paved or landscaped surface areas; however, the Customer may cut and replace the pavement or surface in lieu of making the contribution.

(c) Service supplied under the Schedules does not include the conversion of existing overhead secondary conductors to underground. Should Customer desire such a conversion under the Schedules, the Customer will contribute to the Company, in addition to the applicable contributions above, the estimated net loss in salvage value of the overhead facilities being removed. Customer will thereafter pay the applicable rate for underground service.

10. RELOCATION OF FACILITIES

If Company's lighting facilities are installed within its rights-of-way or easements, upon Customer's request the Company will relocate such facilities to a new location within the same general area provided the Customer will pay to the Company any applicable charges.

11. RIGHTS-OF-WAY

Customer shall furnish, without cost to the Company, satisfactory rights-of-way or franchise for Company to install its lighting circuits and necessary equipment. Customer will be responsible for trimming trees and other vegetation that obstruct the light output from the fixture(s) or maintenance access to the facilities.

12. CONTINUITY OF SERVICE

Company will exercise due diligence and reasonable care and foresight to maintain continuity of service as provided in the Service Agreement, but shall not be considered to be in default in respect of any obligation under the Service Agreement if prevented from fulfilling such obligation by reason of uncontrollable forces or by reason of outages of facilities for repair, replacement or inspection, provided due diligence was used to limit such outages, and provided such outages, except in emergencies, were conducted upon a reasonable prearranged schedule; the term "uncontrollable forces" shall be deemed for the purposes of this Agreement to mean earthquake, storm, lightning, flood, backwater caused by flood, fire, epidemic, accident, failure of facilities, war, riot, civil disturbance, strike, labor disturbance, restraint by an order of court or public authority, or other causes beyond the control of the Company, which by exercise of due diligence and foresight the Company could not reasonably have been expected to avoid. When the Company is rendered unable to fulfill any obligation by reason of uncontrollable forces, the Company will exercise due diligence to remove such disability with reasonable dispatch.

13. DAMAGE TO COMPANY FACILITIES

Customer shall protect Company's wiring, apparatus, lighting fixtures, and poles covered by the Service Agreement from damage or harm. In the event of any loss or damage to such property of the Company caused by or arising out of carelessness, neglect, or misuse by the Customer, his employees or agents, or vandalism, the cost incurred by the Company to repair such facilities shall be paid by the Customer.

OFFICIAL COPY

Sep 26 2023

OUTDOOR LIGHTING SERVICE REGULATIONS

14. CONFLICTS

In case of conflict between any provision of the Schedules and these Outdoor Lighting Service Regulations, the provisions of the applicable Schedule shall prevail.

15. NONSTANDARD FACILITIES

At the request of the Customer, the Company may consent to install lighting facilities, using the Company approved equipment, which has not been established as a system standard subject to the Customer paying to the Company a monthly Extra Facilities Charge as determined under Company's Service Regulations.

Company may, at its own discretion and without additional cost to the Customer, install facilities on an experimental basis without adopting such facilities as standards.

16. GENERAL PROVISIONS

(a) All facilities necessary for Outdoor Lighting service, including fixtures, lamps, controls, poles, hardware, transformers, conductors, and other appurtenances shall be owned and maintained by the Company. Luminaires will be installed only on Company-owned poles.

(b) Equipment (such as disconnecting switches) not supplied by the Company as standard is not available under the Schedules and shall not be installed by the Customer.

(c) Outdoor Lighting is not available for seasonal or other part-time operation of outdoor luminaires, except as otherwise noted.

(d) Service using overhead conductors is not available in any area designated by the Company as underground distribution area, nor in any area, location, or premises being served from an underground source.

(e) For areas outside of municipal limits, location of the luminaire(s) shall be designated by the Customer, but the location must be within the distance which can be reached by a secondary extension from the Company's nearest distribution facilities.

(f) "Suburban" luminaires are defined as standard NEMA-style fixtures with refractors and vertical-burning lamps. "Urban" luminaires are defined as "cobra-style" fixtures with enclosed refractive or flat lenses and horizontal-burning lamps.

17. TERMINATION OF A CONTRACT TERMS

Customer may request to terminate the Contract before the expiration of the initial Contract Period by paying to the Company a sum of money equal to 40% of the monthly bills which otherwise would have been rendered for the remaining term of the initial Contract Period, less the monthly bills for the initial term of contract of any successor customer who has applied for lighting service at the premises prior to the effective date of the contract termination, provided, however, this amount shall not be less than zero.

Additionally, if the Customer requests to terminate the Contract for HPS and/or MH luminaires prior to the end of the original contract term in order to transition to a LED luminaire, the Customer will pay the applicable transition fee, and a termination fee will not be charged.

18. AMENDMENT OF A SERVICE AGREEMENT

(a) If and when mutually agreed upon, a lighting unit or pole may be added or removed from the lighting system or the size of the lamp may be changed. Any change made under this paragraph shall be evidenced by a written memorandum.

(b) If Company extends its general distribution system so as to use special lighting poles for distribution poles or removes its distribution facilities from a pole used for lighting purposes, Company shall so notify Customer of the poles affected and appropriate adjustments will be made in the rendering of monthly bills.

OFFICIAL COPY

Sep 26 2023

OUTDOOR LIGHTING SERVICE REGULATIONS

19. SALES TAX

Any applicable North Carolina Sales Tax shall be added to the applicable charges contained in the Schedules and Outdoor Lighting Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
Rate Year 1 North Carolina Tariffs Proposed for Change

LEAF NO.	DESCRIPTION	REVISION NO.

I. **RETAIL CLASSIFICATION**

A. **RESIDENTIAL RATE SCHEDULES**

11	RS Residential Service	55
13	RE Residential Service Electric Water Heating and Space Conditioning	56
14	ES Residential Service Energy Star	39
15	RT Residential Service Time Of Use	55
136	RSTC Residential Service: Time of Use with Critical Peak Pricing	4
137	RETC Residential Service for All-Electric Customers: Time of Use with Critical Peak Pricing	4

B. **GENERAL SERVICE AND INDUSTRIAL RATE SCHEDULES**

21	SGS Small General Service	33
26	BC Building Construction	53
29	LGS Large General Service	32
31	HLF High Load Factor	Orig.
38	TS Traffic Signal Service	52
41	I Industrial Service	60
45	OPT-E Optional Power Service Time-of-Use Energy Only (Pilot)[3]	27
49	OPT-V Optional Power Service Time-of-Use with Voltage Differential	18
54	HP Hourly Pricing	37
55	PG Parallel Generation	65
138	SGSTC Small General Service: Time of Use with Critical Peak Pricing	4
204	S Unmetered Signs[1]	32

C. **LIGHTING RATE SCHEDULES**

32	OL Outdoor Lighting	61
34	PL Street and Public Lighting Service	59
35	NL Nonstandard Lighting (Pilot)[1]	28

D. **RETAIL RIDERS**

		IN CONJUNCTION WITH:	
99	Summary of Rider Adjustments	All	56
60	FCAR Fuel Cost Adjustment Rider	All Retail Schedules	41
62	EE Energy Efficiency Rider	All Retail Schedules	18
64	EDPR Existing DSM Program Costs Adjustment Rider.	All Retail Schedules	19
72	NM Net Metering Rider[2]	All Retail Schedules	14
75	SCG Small Customer Generator Rider	All Retail Schedules	14
78	PS Powershare Nonresidential Load Curtailment	LGS, I, OPT-V, HP	6
80	IS Interruptible Power Service[1]	LGS, I, HP, OPT-V	10
82	SG Standby Generator Control[3]	General Services and Industrial Schedules	5
84	EC Economic Development[2]	LGS, I, OPT-V	7
87	ER Economic Redevelopment[2]	LGS, I, OPT-V	7
104	GS Green Source (Experimental)[1]	OPT-V	1
131	EDIT-4 Excess Deferred Income Tax Rider-4	All Retail Schedules	2
133	STS Storm Securitization Rider	All Retail Schedules	6
135	SCR Storm Cost Recovery Rider[3]	All Retail Schedules	1
139	NSC Non-Residential Solar Choice Rider	General Service and Industrial Schedules	Orig.
144	CAR Customer Assistance Recovery Rider	Residential, General Service and Industrial	Orig.
145	GSA Green Source Advantage Rider	General Service and Industrial Schedules	3
147	RDM Residential Decoupling Mechanism Rider	Residential Schedules	Orig.
148	ESM Earnings Sharing Mechanism Rider	All Retail Schedules	Orig.
149	PIM Performance Incentive Mechanism Rider	All Retail Schedules	Orig.
240	ED Economic Development	LGS, I, OPT-V	Orig.
331	SRR Solar Rebate Rider	All Retail Schedules	7

E. **RETAIL PROGRAMS**

		APPLICABLE TO:	
175	CAP Customer Assistance Program Credit	Residential Schedules	Orig.
320	Remote Meter Reading and Usage Data Service	All Retail Customers	5

F. **OTHER TARIFFS, CONTRACT FORMS AND ADMINISTRATIVE PROCEDURES**

400	Distribution Line Extension Plan	2
401	Service Regulations	8
402	Outdoor Lighting Service Regulations	Orig.

[1]Not available for new applications
[2]Not available for new applications on and after January 1, 2024
[3]Closed on and after January 1, 2024

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Fifth Revised Leaf No. 11
Superseding NC Fifty-Fourth Revised Leaf No. 11

SCHEDULE RS
RESIDENTIAL SERVICE

AVAILABILITY

Available to residential customers in residences, condominiums, manufactured homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge per month	$ 14.00
II.	Energy Charge per month, per kWh*	10.9342¢

*For customers receiving Supplemental Security Income (SSI) under the program administered by the Social Security Administration and who are blind, disabled, or 65 years of age or over, the rate for the first 350 kWh used per month shall be 9.8408 cents per kWh. This is an experimental rate authorized by the North Carolina Utilities Commission on August 31, 1978. The present maximum discount to customers being served under this experiment is $3.83 per month.

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

OFFICIAL COPY

Sep 26 2023

SCHEDULE RS
RESIDENTIAL SERVICE

Leaf No. 144	CAR Rider
Leaf No. 147	RDM Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Sixth Revised Leaf No. 13
Superseding NC Fifty-Fifth Revised Leaf No. 13

SCHEDULE RE
RESIDENTIAL SERVICE
ELECTRIC WATER HEATING AND SPACE CONDITIONING

AVAILABILITY

Available to residential customers in residences, condominiums, manufactured homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation. In addition, all energy required for all water heating and environmental space conditioning must be supplied electrically, and all electric energy used in such dwelling must be recorded through a single meter. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

To qualify for service under this Schedule, the environmental space conditioning system and a separate electric water heater must permanently be installed in accordance with sound engineering practices and the manufacturer's recommendations, and both shall meet the requirements below.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge per month	$14.00
II.	Energy Charge	
	For the billing months of May – September	
	For all kWh per month, per kWh*	10.4596¢
	For the billing months of October – April	
	For the first 800 kWh per month, per kWh*	10.4596¢
	For all over 800 kWh per month, per kWh	9.4136¢

*For customers receiving Supplemental Security Income (SSI) under the program administered by the Social Security Administration and who are blind, disabled, or 65 years of age or over, the rate for the first 350 kWh used per month shall be 9.4136 cents per kWh. This is an experimental rate authorized by the North Carolina Utilities Commission on August 31, 1978. The present maximum discount to customers being served under this experiment is $3.66 per month.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RE
RESIDENTIAL SERVICE
ELECTRIC WATER HEATING AND SPACE CONDITIONING

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 144	CAR Rider
Leaf No. 147	RDM Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

REQUIREMENTS

An electric water heater meeting the specifications set forth below must be installed and used to supply the entire water heating requirements, except that which may be supplied by non-fossil sources such as solar.

1. Water heaters shall be of the automatic insulated storage type, of not less than 30-gallon capacity and may be equipped with only a lower element or with a lower element and an upper element.
2. Water heaters having only a lower element may have wattages up to but not exceeding the wattages shown below for various tank capacities.

Tank Capacity in Gallons	Maximum Single Element Wattage
30 – 49	4,500
50 – 119	5,500
120 and larger	Special approval

3. The total wattage of the elements in a water heater with a lower element and an upper element may not exceed the specific wattages above unless the water heater has interlocking thermostats to prevent simultaneous operation of the two elements such that the maximum wattage is not exceeded during operation.

Electric space conditioning meeting the specifications set forth below must be installed and used to supply the entire space conditioning requirements, except that which may be supplied by supplemental non-fossil sources such as solar.

1. Room-type systems shall be controlled by individual room thermostats.
2. Heat pumps shall be controlled by two-stage heating thermostats, the first stage controlling compressor operation and the second stage controlling all auxiliary resistance heaters. Auxiliary heaters shall be limited to 48 amps (11.5 KW at 240 volts) each and shall be switched so that the energizing of each successive heater is controlled by a separate adjustable outdoor thermostat. A manual switch for by-pass of the first stage and the interlock of the second stage of the heating thermostat will be permitted.
3. Excess heating capacity (15% more than total calculated heat losses) may be disconnected at the option of the Company.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RE
RESIDENTIAL SERVICE
ELECTRIC WATER HEATING AND SPACE CONDITIONING

4. Total heat loss shall not exceed 30 BTUH (at 60 degrees F. temperature differential) per square foot of net heated area. Duke Power's procedure for calculating heat loss or the current edition of ASHRAE (American Society of Heating, Refrigerating, and Air Conditioning Engineers) Guide shall be the source for heat loss calculations. Duct or pipe losses shall be included in the computation of total heat losses.

Billing of service under this schedule will begin after the Customer has notified the Company that qualifications have been met. The Company at all reasonable times shall have the right to periodically inspect the premises of the Customer for compliance with the requirements, subsequent to the initial inspection.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Thirty-Ninth Revised Leaf No. 14
Superseding NC Thirty-Eighth Revised Leaf No. 14

SCHEDULE ES
RESIDENTIAL SERVICE, ENERGY STAR

AVAILABILITY

Available to residential customers in residences, condominiums, manufactured homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation, and which are certified to meet the standards of the Energy Star program of the United States Department of Energy and Environmental Protection Agency. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

To qualify for service under this Schedule compliance with the Energy Star standards must be verified by a third party independent Home Energy Rating System (HERS) rater working for an approved HERS provider.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

Electric space heating and/or electric domestic water heating are not required, but if present, must meet the standards outlined below to qualify for the All-Electric rate, and must be permanently installed in accordance with sound engineering practices and the manufacturer's recommendations. In addition, to qualify for service under this schedule all electric energy used in the dwelling must be recorded through a single meter.

Energy Star Home Certification criteria may vary based on the geographical location of the residence. The criteria for each county served by Company and a list of independent HERS raters are available from the Company or on the Energy Star web site at www.energystar.gov.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

		Standard	All-Electric
I.	Basic Customer Charge per month	$14.00	$14.00
II.	Energy Charge		
	For the billing months of May – September		
	For all kWh per month, per kWh	10.3875¢	9.9366¢
	For the billing months of October – April		
	For the first 800 kWh per month, per kWh	10.3875¢	9.9366¢
	For all over 800 kWh per month, per kWh	10.3875¢	8.9429¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE ES
RESIDENTIAL SERVICE, ENERGY STAR

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 144	CAR Rider
Leaf No. 147	RDM Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

REQUIREMENTS

The Standard rate above is applicable to residences where the Energy Star standards are met, irrespective of the source of energy used for water heating or environmental space conditioning.

The All-Electric rate above is applicable to residences where the Energy Star standards are met and all energy required for all water heating cooking, clothes drying and environmental space conditioning is supplied electrically, except that which may be supplied by non-fossil sources such as solar.

1. Water heaters shall be of the automatic insulated storage type, of not less than 30-gallon capacity and may be equipped with only a lower element or with a lower element and an upper element.

2. Water heaters having only a lower element may have wattages up to but not exceeding the wattages shown below for various tank capacities.

Tank Capacity in Gallons	Maximum Single Element Wattage
30 – 49	4500
50 – 119	5500
120 and larger	Special approval

3. The total wattage of the elements in a water heater with a lower element and an upper element may not exceed the specific wattages above unless the water heater has interlocking thermostats to prevent simultaneous operation of the two elements such that the maximum wattage is not exceeded during operation.

Billing of service under this schedule will begin after the Customer has provided the Company with certification that the residence meets the Energy Star standards. In addition, if the residence meets the All-Electric Rate requirements, billing of service under the All-Electric rate will begin after the Customer has provided satisfactory documentation that the residence meets the All-Electric rate requirements. The Company at all reasonable times shall have the right to periodically inspect the premises of the Customer for compliance with the requirements, subsequent to the initial inspection.

OFFICIAL COPY

Sep 26 2023

SCHEDULE ES
RESIDENTIAL SERVICE, ENERGY STAR

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Fifth Revised Leaf No. 15
Superseding NC Fifty-Fourth Revised Leaf No. 15

SCHEDULE RT
RESIDENTIAL SERVICE, TIME OF USE

AVAILABILITY

Available on a voluntary basis to individually-metered residential customers in residences, condominiums, manufactured homes, or apartments which provide independent facilities for living, sleeping, eating, cooking, and sanitation. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge per month	$14.00
II.	Demand Charges	
	On-Peak Demand per month, per kW	$2.25
	Max Demand per month, per kW	$4.30
III.	Energy Charges	
	On-Peak Energy per month, per kWh	14.9848¢
	Off-Peak Energy per month, per kWh	6.8630¢
	Discount Energy per month, per kWh	4.7202¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Fifth Revised Leaf No. 15
Superseding NC Fifty-Fourth Revised Leaf No. 15

SCHEDULE RT
RESIDENTIAL SERVICE, TIME OF USE

Leaf No. 129 EDIT-3 Rider
Leaf No. 131 EDIT-4 Rider
Leaf No. 144 CAR Rider
Leaf No. 147 RDM Rider
Leaf No. 148 ESM Rider
Leaf No. 149 PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF BILLING DEMAND

I. On-Peak Demand shall be the maximum 30-minute demand in the On-Peak Period during the current billing month.

II. Max Demand shall be the maximum 30-minute demand during the current billing month.

MINIMUM BILL

The minimum bill shall be the Basic Customer Charge.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourth Revised Leaf No. 136
Superseding NC Third Revised Leaf No. 136

SCHEDULE RSTC
RESIDENTIAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

AVAILABILITY

Available to residential customers in residences, condominiums, mobile homes, or individually-metered apartments which provide independent facilities for living, sleeping, eating, cooking, and sanitation. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the Customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge, per month	$14.00
II.	Energy Charges	
	Critical Peak Energy per month, per kWh	38.6899¢
	On-Peak Energy per month, per kWh	21.2570¢
	Off-Peak Energy per month, per kWh	9.3062¢
	Discount Energy per month, per kWh	6.7281¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to each of the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourth Revised Leaf No. 136
Superseding NC Third Revised Leaf No. 136

SCHEDULE RSTC
RESIDENTIAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

Leaf No. 131 EDIT-4 Rider
Leaf No. 144 CAR Rider
Leaf No. 147 RDM Rider
Leaf No. 148 ESM Rider
Leaf No. 149 PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF CRITICAL PEAK PRICING

The Company will call up to 20 Critical Peak Days per calendar year. The number of Critical Peak Days permitted annually may be exceeded in the event of a system emergency that is expected to place the Company's ability to provide reliable service to customers at risk.

During Company-designated Critical Peak Days, On-Peak Hours will become Critical Peak Hours. The Company may shift the Critical Peak Hours one hour earlier or later than the regular On-Peak Hours to provide flexibility for system operations; however, the number of Critical Peak Hours per day will remain the same as the number of On-Peak Hours that would have otherwise occurred. Any shift in Critical Peak Hours will be reflected in the customer notification.

NOTIFICATION OF CRITICAL PEAK PRICING

The Company will notify customers of Critical Peak Days and applicable Critical Peak Hours by 4:00 pm on the prior day. Customers may elect to receive notifications by phone, email and/or text message. The Company will use its best efforts to notify customers by 4:00 pm on the prior day; however, notification of Critical Peak Days may occur at any time, but no later than one hour prior to the Critical Peak period. Receipt of Critical Peak Pricing notification is the Customer's responsibility.

MINIMUM BILL

The minimum bill shall be the Basic Customer Charge.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RSTC
RESIDENTIAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on 30 days written notice.

GENERAL PROVISIONS

Participating customers must provide and maintain internet accessibility, an email address, and/or means to receive phone calls or text messages, as appropriate, at the Customer's expense in order for the Company to provide notification for Critical Peak Pricing.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RETC
RESIDENTIAL SERVICE FOR ALL-ELECTRIC CUSTOMERS: TIME OF USE WITH CRITICAL PEAK PRICING

AVAILABILITY

Available to residential customers in residences, condominiums, mobile homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation. In addition, all energy required for all water heating and environmental space conditioning must be supplied electrically, and all electric energy used in such dwelling must be recorded through a single meter. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

To qualify for service under this Schedule, the environmental space conditioning system and a separate electric water heater must permanently be installed in accordance with sound engineering practices and the manufacturer's recommendations, and both shall meet the requirements below.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge, per month	$14.00
II.	Energy Charges	
	Critical Peak Energy per month, per kWh	39.9816¢
	On-Peak Energy per month, per kWh	19.2782¢
	Off-Peak Energy per month, per kWh	8.8010¢
	Discount Energy per month, per kWh	6.3667¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to each of the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourth Revised Leaf No. 137
Superseding NC Third Revised Leaf No. 137

SCHEDULE RETC
RESIDENTIAL SERVICE FOR ALL-ELECTRIC CUSTOMERS:
TIME OF USE WITH CRITICAL PEAK PRICING

Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 144	CAR Rider
Leaf No. 147	RDM Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF CRITICAL PEAK PRICING

The Company will call up to 20 Critical Peak Days per calendar year. The number of Critical Peak Days permitted annually may be exceeded in the event of a system emergency that is expected to place the Company's ability to provide reliable service to customers at risk.

During Company-designated Critical Peak Days, On-Peak Hours will become Critical Peak Hours. The Company may shift the Critical Peak Hours one hour earlier or later than the regular On-Peak Hours to provide flexibility for system operations; however, the number of Critical Peak Hours per day will remain the same as the number of On-Peak Hours that would have otherwise occurred. Any shift in Critical Peak Hours will be reflected in the customer notification.

NOTIFICATION OF CRITICAL PEAK PRICING

The Company will notify customers of Critical Peak Days and applicable Critical Peak Hours by 4:00 pm on the prior day. Customers may elect to receive notifications by phone, email and/or text message. The Company will use its best efforts to notify customers by 4:00 pm on the prior day; however, notification of Critical Peak Days may occur at any time, but no later than one hour prior to the Critical Peak period. Receipt of Critical Peak Pricing notification is the Customer's responsibility.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RETC
RESIDENTIAL SERVICE FOR ALL-ELECTRIC CUSTOMERS:
TIME OF USE WITH CRITICAL PEAK PRICING

MINIMUM BILL

The minimum bill shall be the Basic Customer Charge.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on 30 days written notice.

GENERAL PROVISIONS

Participating customers must provide and maintain internet accessibility, an email address, and/or means to receive phone calls or text messages, as appropriate, at the Customer's expense in order for the Company to provide notification for Critical Peak Pricing.

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGS
SMALL GENERAL SERVICE

AVAILABILITY

Available to the individual customer with a kilowatt demand of 75 kW or less. If the customer's measured demand exceeds 75 kW during any month, the customer will be served under Schedule LGS.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$21.00
II.	Demand Charge	
	For the first 30 kW of Billing Demand per month, per kW	No Charge
	For all over 30 kW of Billing Demand per month, per kW	$6.13
III.	Energy Charge	
	For the first 3,000 kWh per month, per kWh	12.5837¢
	For the next 6,000 kWh per month, per kWh	6.9210¢
	For all over 9,000 kWh per month, per kWh	5.9147¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGS
SMALL GENERAL SERVICE

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule, unless the service qualifies for a waiver of the REPS Billing Factor for an auxiliary service.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 70% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 50% of the Contract Demand
4. 30 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

SPECIAL TERMS AND CONDITIONS

Electric service for the operation of community access television (CATV) distribution line power supply equipment is available under this rate schedule for constant load as determined by the Company. Such service is provided only on a metered basis, and each individual delivery point shall be billed the Basic Customer Charge shown above, and all kWh will be billed at a rate of 5.9341 cents per kWh.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGS
SMALL GENERAL SERVICE

payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Third Revised Leaf No. 26
Superseding NC Fifty-Second Revised Leaf No. 26

SCHEDULE BC
BUILDING CONSTRUCTION SERVICE

AVAILABILITY

Available only as temporary service to builders for use in the construction of buildings or other establishments which will receive, upon completion, permanent electric service from the Company's lines.

This Schedule is not available for permanent service to any building or other establishment, or for service to construction projects of types other than those described above. This Schedule is not available to rock crushers, asphalt plants, carnivals, fairs, or other non-permanent connections. Such service will be provided under the applicable general service schedule.

This Schedule is not available for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power, or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter at one delivery point, at 120/240 volts, single phase.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$ 21.00
II.	Energy Charge	
	For the first 50 kWh used per month, per kWh	9.6357¢
	For all over 50 kWh used per month, per kWh	7.4649¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

OTHER CHARGES

There will be no charge for connection and disconnection of the temporary service if the builder accepts delivery at a point where the Company deems such delivery feasible: otherwise, there will be a charge as follows: Overhead service conductors,

OFFICIAL COPY

Sep 26 2023

SCHEDULE BC
BUILDING CONSTRUCTION SERVICE

transformers and line extensions necessary to serve such requirements will be erected and dismantled at actual cost subject to credit for facilities which may remain in permanent service. The actual cost shall include payroll, transportation, and miscellaneous expense for both erection and dismantling of the temporary facilities, plus the cost of material used, less the salvage value of the material removed.

If the builder or his subcontractors require additional temporary services at the same construction site, a charge, computed as in the foregoing, shall be made for each such service. The Company may require a deposit equal to the estimated cost of connection and disconnection plus the estimated billing on the foregoing rate for the period involved, said deposit to be returned if the contract period is fulfilled.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The term of this contract shall be the estimated length of time, declared by the builder on making application for service, required for completion of construction at the location where service is requested. The builder shall notify the Company when construction is completed. If at any time during the term of this contract, inspection discloses construction completed, or energy being used for purposes other than that set forth in this Schedule, the contract shall be deemed terminated, and billing for service thereafter, until disconnection is requested, shall be on the applicable general service schedule. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Thirty-Second Revised Leaf No. 29
Superseding NC Thirty-First Revised Leaf No. 29

SCHEDULE LGS
LARGE GENERAL SERVICE

AVAILABILITY

Available to the individual customer with a kilowatt demand of more than 75 kW. If the customer's measured demand is 75 kW or less for twelve consecutive months, the customer will be served under Schedule SGS.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$26.00
II.	Demand Charge	
	For the first 30 kW of Billing Demand per month, per kW	No Charge
	For all over 30 kW of Billing Demand per month, per kW	$4.52
II.	Energy Charge	
	For the first 125 kWh per kW Billing Demand per month:	
	For the first 3,000 kWh per month, per kWh	12.6770¢
	For all over 3,000 kWh per month, per kWh	7.4876¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE LGS
LARGE GENERAL SERVICE

For the next 275 kWh per kW Billing Demand per month:	
For the first 6,000 kWh per month, per kWh	6.9849¢
For all over 6,000 kWh per month, per kWh	6.0583¢
For all over 400 kWh per kW Billing Demand per month:	
For all kWh per month, per kWh	5.6663¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider as shown in Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 70% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 50% of the Contract Demand
4. 30 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

OFFICIAL COPY

Sep 26 2023

SCHEDULE LGS
LARGE GENERAL SERVICE

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HLF
HIGH LOAD FACTOR

AVAILABILITY

Available to the individual customer with a kilowatt demand of 1,000 kW or more.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$34.00		
II.	Energy Charge per kWh, per month	2.7161¢		
		Secondary	Primary	Transmission
III.	Demand Charge per kW of Billing Demand, per month	$19.91	$18.32	$17.92

Demand Charge is based on delivery voltage. Secondary service includes delivery voltage less than or equal to 600 volts. Primary service includes delivery voltage greater than 600 volts but less than 44 kV. Transmission service includes delivery voltage greater than or equal to 44 kV.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 31

SCHEDULE HLF
HIGH LOAD FACTOR

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 90% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 75% of the Contract Demand
4. 1,000 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kW for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the 25th day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the 25th day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least 60 days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an

OFFICIAL COPY

Sep 26 2023

SCHEDULE HLF
HIGH LOAD FACTOR

amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Second Revised Leaf No. 38
Superseding NC Fifty-First Revised Leaf No. 38

SCHEDULE TS
TRAFFIC SIGNAL SERVICE

AVAILABILITY

Available to municipalities in which the Company owns and operates the electric distribution system, and to County, State, and Federal Authorities, in areas served by the Company, for the energy requirements of traffic and safety signal systems, wireless communications equipment, and cameras used to monitor traffic.

Power delivered under this Schedule shall not be used for resale or exchange or in parallel with other electric power, or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at 120/240 volts, single-phase.

RATE

I.	Basic Customer Charge per month	$8.00
II.	Energy Charge	
	For the first 50 kWh per month, per kWh	35.8599¢
	For all over 50 kWh per month, per kWh	13.4358¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year and thereafter until terminated by either party on thirty days' written notice.

OFFICIAL COPY

Sep 26 2023

SCHEDULE TS
TRAFFIC SIGNAL SERVICE

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE I
INDUSTRIAL SERVICE

AVAILABILITY

Available only to establishments classified as "Manufacturing" by the North American Industry Classification System (NAICS), and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$21.00
II.	Demand Charge	
	For the first 30 kW of Billing Demand per month, per kW	No Charge
	For all over 30 kW of Billing Demand per month, per kW	$5.17
III.	Energy Charge	
	For the first 125 kWh per kW Billing Demand per month:	
	For the first 3,000 kWh per month, per kWh	12.7601¢
	For all over 3,000 kWh per month, per kWh	6.9277¢
	For the next 275 kWh per kW Billing Demand per month:	
	For the first 6,000 kWh per month, per kWh	5.7240¢
	For all over 6,000 kWh per month, per kWh	5.4950¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE I
INDUSTRIAL SERVICE

For all over 400 kWh per kW Billing Demand per month:
For all kWh per month, per kWh 5.1018¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 70% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 50% of the Contract Demand
4. 30 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or

OFFICIAL COPY

Sep 26 2023

SCHEDULE I
INDUSTRIAL SERVICE

at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE OPT-E
OPTIONAL POWER SERVICE TIME-OF-USE, ENERGY-ONLY (PILOT)

AVAILABILITY

This Schedule is closed and not available for new service on and after January 1, 2024. Any customers served under this Schedule on January 1, 2024 will be transitioned to another rate schedule at the start of their next billing cycle.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Eighteenth Revised Leaf No. 49
Superseding NC Seventeenth Revised Leaf No. 49

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

AVAILABILITY

Available to the individual customer with a Contract Demand that equals or exceeds 75 kW. Customers with a Contract Demand under 75 kW, served under this Schedule prior to January 1, 2024 under continually effective agreements, may continue to receive service under this Schedule. Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I. Transmission Service
Delivery voltage greater than or equal to 44 kV

A. Basic Customer Charge	$34.00
B. Demand Charges	
On-Peak Demand per month, per kW	$2.52
Mid-Peak Demand	
For the first 1,000 kW per month, per kW	$6.25
For the next 2,000 kW per month, per kW	$6.25
For all over 3,000 kW per month, per kW	$6.25

OFFICIAL COPY
Sep 26 2023

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

Base Demand per month, per kW	$0.50
C. Energy Charges	
On-Peak Energy per month, per kWh	9.0106¢
Off-Peak Energy per month, per kWh	3.8205¢
Discount Energy per month, per kWh	2.4418¢

II. Primary Service

Delivery voltage greater than 600 volts but less than 44 kV where the maximum on-peak actual demand during the months of May – September is as follows: Small - less than or equal to 1,000 kW; Medium - greater than 1,000 kW but less than or equal to 3,000 kW; Large - greater than 3,000 kW

	Small	Medium	Large
A. Basic Customer Charge	$34.00	$34.00	$34.00
B. Demand Charges			
On-Peak Demand per month, per kW	$3.22	$3.22	$3.22
Mid-Peak Demand			
For the first 1,000 kW per month, per kW	$8.07	$8.07	$8.07
For the next 2,000 kW per month, per kW	$7.51	$7.51	$7.51
For all over 3,000 kW per month, per kW	$7.51	$7.51	$7.51
Base Demand per month, per kW	$1.06	$1.06	$1.06
C. Energy Charges			
On-Peak Energy per month, per kWh	8.8331¢	8.8331¢	8.8331¢
Off-Peak Energy per month, per kWh	3.8248¢	3.8248¢	3.8248¢
Discount Energy per month, per kWh	2.4731¢	2.4731¢	2.4731¢

III. Secondary Service

Delivery voltage less than or equal to 600 volts where the maximum on-peak actual demand during the months of May – September is as follows: Small - less than or equal to 1,000 kW; Medium - greater than 1,000 kW but less than or equal to 3,000 kW; Large - greater than 3,000 kW

	Small	Medium	Large
A. Basic Customer Charge	$34.00	$34.00	$34.00
B. Demand Charges			
On-Peak Demand per month, per kW	$3.14	$3.14	$3.14
Mid-Peak Demand			
For the first 1,000 kW per month, per kW	$7.43	$7.43	$7.43
For the next 2,000 kW per month, per kW	$6.91	$6.91	$6.91
For all over 3,000 kW per month, per kW	$5.72	$5.72	$5.72
Base Demand per month, per kW	$1.49	$1.49	$1.49
C. Energy Charges			
On-Peak Energy per month, per kWh	9.1449¢	9.1449¢	9.1449¢
Off-Peak Energy per month, per kWh	4.0512¢	4.0512¢	4.0512¢
Discount Energy per month, per kWh	2.6612¢	2.6612¢	2.6612¢

DETERMINATION OF CUSTOMER SIZE CLASSIFICATION

The demand used to determine the rate classification of the customer as Small, Medium or Large, used in the calculation of the monthly bill, shall be the maximum 30-minute on-peak actual demand registered during the months of May-September within the

OFFICIAL COPY
Sep 26 2023

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

previous 12 months; however, if the customer was not served on a time of use rate prior to taking service under Schedule OPT-V, the customer's maximum integrated 30-minute actual demand for the billing months of May through September shall be used. For new customers, the Company shall determine the size classification based on an appropriate estimate of the maximum on peak actual demand for the months of May through September.

Each year, at the end of the summer season, accounts will be reviewed to determine if a change in classification is necessary based on the most recent months of May through September. If a change in classification is warranted, such change and reclassification shall be effective with the November billing period which follows the summer season. The Company may, at its option, change the rate classification at other times if, upon its own assessment, the Company determines that a change in the load would warrant a change in classification prior to the annual review.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

OFFICIAL COPY

Sep 26 2023

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

CONTRACT DEMAND

The Company will require contracts to specify the maximum demand to be delivered to the Customer which shall be the Contract Demand.

DETERMINATION OF BILLING DEMANDS

I. On-Peak Demand shall be the maximum 30-minute demand in the On-Peak Period during the current billing month.

II. Mid-Peak Demand shall be the maximum 30-minute demand in either the On-Peak or Off-Peak Period during the current billing month.

III. Base Demand shall be the higher of (1) the maximum 30-minute demand during the previous 12 billing months including the current billing month, or (2) 50% of the Contract Demand.

Provision III.(2) related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Thirty-Seventh Revised Leaf No. 54
Superseding NC Thirty-Sixth Revised Leaf No. 54

SCHEDULE HP
HOURLY PRICING

AVAILABILITY

Available to non-residential establishments with a minimum Contract Demand of 1,000 kW who qualify for service under the Company's rate schedules LGS, I, OPT-V or HLF.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available for a customer who qualifies for a residential schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, under special terms and conditions expressed in writing in the contract with the Customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in, or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

The Company may cancel this schedule at any time it deems necessary.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

BILL DETERMINATION

The monthly bill shall consist of the following charges:

I. Baseline Charge = sum of charges under the Customer's baseline rate schedule for their Customer Baseline Load
II. Administrative Charge = $200 per month
III. Energy Charge = sum of [(New Load kWh – Reduced Load kWh) x Hourly Energy Price]
IV. Capacity Charge = sum of [(New Load kWh – Reduced Load kWh) x Hourly Capacity Price]
V. Incentive Margin = 0.6 cents per kWh of Net New Load
VI. Incremental Demand Charge = $0.95 per kW of Incremental Demand for Distribution Service
= $0.95 per kW of Incremental Demand for Transmission Service

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Thirty-Seventh Revised Leaf No. 54
Superseding NC Thirty-Sixth Revised Leaf No. 54

SCHEDULE HP
HOURLY PRICING

DEFINITIONS

Customer Baseline Load (CBL): The CBL is one full year of hourly loads representing the Customer's energy use and load pattern on their baseline rate schedule. The CBL, as agreed to by the Customer and the Company, is defined in terms of average kWh per hour and max kW, by calendar month and by time-of-use (TOU) period, if applicable. The CBL is based on the Customer's historical usage, where available, and may be adjusted for load responsiveness as described in the Customer Baseline Load provisions below. The Customer is billed or credited at Hourly Prices for actual usage above or below their CBL.

New Load: New Load (kWh) is the amount by which actual kWh exceeds CBL kWh for any hour.

Reduced Load: Reduced Load (kWh) is the amount by which actual kWh is less than CBL kWh for any hour.

Net New Load: Net New Load (kWh) is equal to New Load kWh minus Reduced Load.

Incremental Demand: Incremental Demand (kW) is the amount by which actual kW (maximum 30-minute demand during the current billing month) exceeds CBL kW for the same billing month.

Contract Demand: The maximum demand to be delivered under this Schedule.

CUSTOMER BASELINE LOAD

Initial CBL Establishment:

An initial CBL will be established based on the Customer's load history in the previous 12 months, as determined by the Company and agreed to by the Customer. Adjustments or use of prior load history may be allowed in such cases as permanent removal or addition of equipment; installation of permanent energy efficiency measures; installation of parallel generation; nonrepresentative load patterns from extraordinary events; and plant shutdowns.

CBL Modifications:

CBL's are required to be re-established after four (4) years. Subsequent CBL's will be established using the same process and considerations as the initial CBL for existing customers, in addition to the Load Response Adjustment described below. Customers may request an update to their CBL no earlier than 12 months from their previous CBL. Customers served under Schedule HP before January 1, 2024 under continually effective agreements are not required to re-establish their CBL after four years unless and until the Customer requests an update of their CBL for any reason.

Load Response Adjustment:

For customers on a TOU baseline schedule, CBL modifications may include a Load Response Adjustment, at the Customer's option and requiring at least 48 months of representative load history on Schedule HP. The Adjustment reduces the Customer's CBL for demonstrated load reductions on days when Hourly Capacity Prices are in effect. The Company will calculate the Customer's weighted average Load Response Factor, as a percentage of load, over the previous 48 months. The Customer's On-Peak CBL (kW and kWh) will be reduced by the full Load Response Factor, and the Customer's Off-Peak CBL will be reduced by half of the Load Response Factor. CBL's for Discount hours will not be adjusted.

HOURLY PRICING

Each business day by 4:00 p.m., the Hourly Energy Prices and Hourly Capacity Prices (if applicable) for the 24 hours of the following day will be communicated to the Customer. Prices for weekends and Company holidays will be communicated to the Customer by 4:00 p m. on the last business day before the weekend or holiday. The Customer is responsible for notifying the company if he or she fails to receive the price information.

Hourly Energy Prices are based on the Company's forecasted marginal energy cost in each hour, which includes marginal fuel, variable operating and maintenance expenses, and an adjustment for delivery line losses.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Thirty-Seventh Revised Leaf No. 54
Superseding NC Thirty-Sixth Revised Leaf No. 54

SCHEDULE HP
HOURLY PRICING

Hourly Capacity Prices are applicable when the daily forecast indicates a reserve ratio of 1.15 or less, calculated as available generation divided by system demand. The Hourly Capacity Price is zero for all other hours of the year. When applicable, the Hourly Capacity Price is a tiered rate based on the forecasted reserve ratio, reflecting the marginal cost of production capacity.

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider (applicable to Baseline Charge only)
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PROVISION FOR CUSTOMERS OPERATING IN PARALLEL WITH THE COMPANY

Customers served under this Schedule are permitted to operate power generating facilities in parallel with the Company, with a maximum operating capacity of 50 megawatts or less. If a customer has power generating facilities that are not governed by another parallel generation rate schedule or rider, the Standby Charge, Determination of Standby Charges, and Interconnection Facilities Charge provisions of Schedule PG shall be applicable to service under this Schedule. The Incremental Demand Charge does not apply to any incremental demand that is less than Standby Demand. In addition, customers operating a generator in parallel with the Company's system must comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

PROVISION FOR CUSTOMERS SERVED UNDER RIDER IS

For customers served under Rider IS, the Interruptible Contract Demand shall be the same as that contracted for during the baseline period. Further, the calculation of the Effective Interruptible Demand (EID) each month will exclude all energy consumed above the CBL. Hourly Capacity Prices will not apply to Reduced Load above Firm Contract Demand during the hours of interruption periods.

PROVISION FOR CUSTOMERS SERVED UNDER RIDER PS

For customers served under PowerShare Rider PS, the Maximum Curtailable Demand shall be the same as that contracted for during the baseline period, and the PowerShare Firm Demand must be at least 100 kW less than the CBL. Further, the calculation of the Effective Curtailable Demand (ECD) each month will exclude all energy consumed above the CBL. The PowerShare Curtailed Energy Credit will apply to only the load curtailed between the Firm Demand and the smaller of the Forecasted Demand and the CBL, provided the Forecasted Demand is greater than the Firm Demand. Hourly Energy Prices and Hourly Capacity Prices will not apply to Reduced Load above the PowerShare Firm Demand during a Curtailment Period.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

POWER FACTOR ADJUSTMENT

The Company will adjust, for power factor, the kWh for any customer operating in parallel, and may adjust the kWh for any other customer served under this schedule. The power factor adjustment may result in a Power Factor Charge, if applicable, as follows:

Power Factor Charge = Sum of Hourly Load Correction Amounts for all hours in the billing period, but not less than zero,

Where:

Hourly Load Correction Amount = Hourly Load Correction kWh x Hourly Price
Hourly Load Correction kWh = [total hourly kWh x (0.85 ÷ hourly power factor)] – total hourly kWh

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each Customer shall enter into a contract to purchase electricity under this schedule for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter, by giving at least sixty (60) days previous notice of such termination in writing.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-Fifth Revised Leaf No. 55
Superseding NC Sixty-Fourth Revised Leaf No. 55

SCHEDULE PG
PARALLEL GENERATION

AVAILABILITY

This Schedule is closed to new customers beginning January 1, 2024.

Available only to non-residential establishments which have generating facilities not in excess of eighty (80) megawatts which are interconnected with the Company's system.

Service under this Schedule shall be used solely by the individual contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

The Customer's interconnected power generating facilities may be operated in parallel with the Company's system. Power delivered under this schedule shall not be used for resale or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Power Company, except at the option of the Company, under special terms and conditions expressed in writing in the contract with the Customer.

The Company will provide service to the Customer's net load (total load less Customer generation) and will purchase excess energy from the Customer when the Customer's generation output exceeds the Customer's load, at the rates shown below. Meters for the measurement of excess energy purchased by the Company under this Schedule shall be equipped with compensation to reflect delivery of such energy to the high voltage side of the transformer installation. This Schedule is not available for purchase by the Company of the entire output of the Customer's generator in excess of auxiliary load.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one metering point, at one delivery point, at one of the following approximate voltages where available, upon mutual agreement:

3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

CHARGES		Interconnected To	
		Transmission System	Distribution System
I.	Basic Customer Charge per month	$ 75.00	$ 75.00
II.	On-Peak Demand Charge per On-Peak month, per kW	$16.96	$20.14

OFFICIAL COPY

SCHEDULE PG
PARALLEL GENERATION

III.	Energy Charges		
	a. All On-Peak Energy per month, per kWh	4.8434¢	4.9588¢
	b. All Off-Peak Energy per month, per kWh	4.5985¢	4.6928¢
IV.	Standby Charge per month, per kW	$1.90	$1.90

CREDITS

Credits for excess energy delivered to the Company are set forth in the most recently approved Schedule PP (NC) Variable Rate Energy Credit applicable to the Customer's generation type.

Sep 26 2023

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh charges shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DEFINITION OF ON-PEAK AND OFF-PEAK PERIODS

On-Peak Period Hours	7:00 a.m. – 11:00 p m. Monday – Friday
Off-Peak Period Hours	All other weekday hours and all Saturday and Sunday hours
On-Peak Months	Billing Months of December, January, February, March, June, July, August, September
Off-Peak Months	Billing Months of April, May, October, November

CONTRACT DEMAND

The Company will require contracts to specify a Contract Demand. The Contract Demand shall be the maximum demand to be delivered under normal conditions to the Customer during the on-peak periods of the On-peak Billing months of December through March and June through September.

DETERMINATION OF DEMAND CHARGES

The On-Peak Demand for billing purposes shall be the largest of the following:

1. The maximum 30-minute demand in the On-Peak Period during the current billing month
2. 75% of the Contract Demand
3. 30 kW

OFFICIAL COPY

Sep 26 2023

SCHEDULE PG
PARALLEL GENERATION

Demand charges are applicable for the billing months of December through March and June through September. Demand charges do not apply in the billing months of October, November, April, or May.

Provision 2. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

DETERMINATION OF STANDBY CHARGES

The Company will require each customer who supplies any portion of their electrical requirements by generating facilities to contract for standby, auxiliary, or breakdown service subject to the following provisions. Customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor, as determined by the Company, are exempted from the Standby Charge.

If applicable, the Standby kW will be based on the nameplate capacity in kilowatts of the Customer's generating facility. However, at the option of the Customer, additional metering facilities will be installed, and for billing purposes, the Standby kW will be based on the Customer's maximum 30-minute demand which has been supplied by the Customer's generating facilities during the previous 12 billing months including the current billing month. If additional metering facilities are installed, they will be subject to a monthly Extra Facilities Charge as set forth in the Company's Service Regulations..

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Schedule is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit an Interconnection Request which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures, and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

INTERCONNECTION FACILITIES CHARGE

The Customer shall be responsible for providing suitable control and protective devices on his equipment to assure no disturbance to other customers of the Company or to the Company itself, and to protect the Customer's facilities from all loss or damage which could result from operation with the Company's system.

The Company will furnish, install, own, and maintain interconnection facilities as necessary for service under this Schedule including:

- Suitable control and protective devices installed on the Company's equipment to allow operation of the Customer's generating facilities (see exception below);
- Metering facilities equipped to prevent reverse registration for the measurement of service under this Schedule; and
- Any other modification to its system required to serve the Customer under this Schedule as required by the Company.

All such interconnection facilities in excess of those required in the absence of the Customer's generating facilities to provide capacity at the level of the Contract Demand shall be subject to a monthly charge under the Extra Facilities provision of the Company's Service Regulations. The Company reserves the right to install, at any time, facilities necessary for the appropriate measurement of service under this Schedule and to adjust the Interconnection Facilities Charge accordingly, solely at the option of the Company.

OFFICIAL COPY

Sep 26 2023

SCHEDULE PG
PARALLEL GENERATION

POWER FACTOR CORRECTION

When the average monthly power factor of the power required by the Customer from the Company is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the maximum integrated on-peak demand in kilowatts or the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor and to adjust the Interconnection Facilities Charge accordingly, solely at the option of the Company.

MINIMUM BILL

Beginning in the 13th full month for new service installations, the minimum monthly bill shall be calculated on the Rate above including the Basic Customer Charge, On-Peak Demand Charge, Energy Charge, Standby Charge, etc., but the Demand Charge component billed during the On-Peak months shall be based on not less than 75% of the Contract Demand. If the Customer's demand measured during normal operating conditions exceeds the Contract Demand, the Company may, at any time, establish the minimum based on the maximum 30-minute demand in the previous 12 billing months including the current billing month.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

Credit billings to the Customer will be credited to the Customer's account, or, at the option of the Customer and upon ten (10) days' prior written notice, shall be payable to the Customer within fifteen (15) days of the date of the bill.

CONTRACT PERIOD

Each customer shall enter into a contract for a minimum original term of five (5) years and thereafter until terminated by giving at least thirty (30) months' previous notice of such termination in writing, but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances.

The Company reserves the right to terminate the Customer's contract under this Schedule at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Schedule or operates his generating facilities in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Schedule, the Customer will be required to pay the Company for the costs due to such early cancellation.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourth Revised Leaf No. 138
Superseding NC Third Revised Leaf No. 138

SCHEDULE SGSTC
SMALL GENERAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

AVAILABILITY

Available to the individual customer with a demand of 75 kilowatts (kW) or less. If the customer's measured demand exceeds 75 kW during any month, the customer will be served under Schedule LGS.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the Company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$21.00
II.	Demand Charges	
	On-Peak Demand* per month, per kW	$3.91
	Max Demand* per month, per kW	$1.56

* For all over 30 kW of Billing Demand. No charge for first 30 kW of Billing Demand.

III.	Energy Charges	
	Critical Peak Energy per month, per kWh	39.1717¢
	On-Peak Energy per month, per kWh	24.8551¢
	Off-Peak Energy per month, per kWh	10.9066¢

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourth Revised Leaf No. 138
Superseding NC Third Revised Leaf No. 138

SCHEDULE SGSTC
SMALL GENERAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

Discount Energy per month, per kWh 7.5329¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to each of the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF CRITICAL PEAK PRICING

The Company will call up to 20 Critical Peak Days per calendar year. The number of Critical Peak Days permitted annually may be exceeded in the event of a system emergency that is expected to place the Company's ability to provide reliable service to customers at risk.

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGSTC
SMALL GENERAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

During Company-designated Critical Peak Days, On-Peak Hours will become Critical Peak Hours. The Company may shift the Critical Peak Hours one hour earlier or later than the regular On-Peak Hours to provide flexibility for system operations; however, the number of Critical Peak Hours per day will remain the same as the number of On-Peak Hours that would have otherwise occurred. Any shift in Critical Peak Hours will be reflected in the customer notification.

NOTIFICATION OF CRITICAL PEAK PRICING

The Company will notify customers of Critical Peak Days and applicable Critical Peak Hours by 4:00 pm on the prior day. Customers may elect to receive notifications by phone, email and/or text message. The Company will use its best efforts to notify customers by 4:00 pm on the prior day; however, notification of Critical Peak Days may occur at any time, but no later than one hour prior to the Critical Peak period. Receipt of Critical Peak Pricing notification is the Customer's responsibility.

DETERMINATION OF BILLING DEMANDS

I. On-Peak Demand shall be the maximum 30-minute demand in the On-Peak Period during the current billing month.

II. Max Demand shall be the maximum 30-minute demand during the current billing month.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85%, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85% and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least 60 days previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

GENERAL PROVISIONS

Participating customers must provide and maintain internet accessibility, an email address, and/or means to receive phone calls or text messages, as appropriate, at the Customer's expense in order for the Company to provide notification for Critical Peak Pricing.

OFFICIAL COPY

Sep 26 2023

SCHEDULE S
UNMETERED SIGNS

AVAILABILITY

This schedule is closed and not available to new customers or locations not served on this schedule prior to January 1, 2008, in the former Duke Energy Carolinas Nantahala Area and shall remain in effect for customers under continually effective agreements made prior to January 1, 2008.

This Schedule is available for unmetered service to a sign where the customer provides the lights. This Schedule is for "entrance type" signage on the property owned or controlled by the commercial and/or industrial customer in whose name the bill is rendered. Duke Energy Carolinas must be providing general area lighting and secondary wire must be available at the sign location such that no additional transformation is required. The Company and customer must agree in writing to the estimated monthly kWh usage.

MONTHLY RATE

Basic Customer Charge per month	$7.00 per sign
Energy Charge	7.6950 cents per contracted kWh used

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. The Company has the right to suspend service for non-payment of bills in accordance with Rule R12-8 of the Rules and Regulations of the North Carolina Utilities Commission. In addition, any bill not paid on or before the expiration of 25 days from the date of the bill is subject to an additional charge of one percent (1%) per month as provided in Rule R12-9 of the Rules and Regulations of the North Carolina Utilities Commission.

CONTRACT TERM

Service hereunder shall be for a period of not less than one year, except when, in the opinion of the Company, contracts of shorter duration are justified by particular circumstances.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

AVAILABILITY

Available to the individual customer for lighting of outdoor areas at locations on the Company's distribution system. Service under this Schedule may be withheld or discontinued at the option of the Company.

RATE

All-night outdoor lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
		High Pressure Sodium Vapor*			
4,000	21	Post Top (2)	NA	NA	$24.45
9,500	47	Suburban (3)	$15.05	$21.98	$26.60
9,500	47	Urban	$16.97	$23.90	$28.52
13,000	56	Suburban (4) (in suitable mercury fixture)	$16.49	NA	NA
16,000	70	Urban	$18.37	$25.30	$29.92
27,500	104	Urban	$21.74	$28.67	$33.29
50,000	156	Urban	$26.48	$33.41	$38.03
16,000	70	Floodlight	$22.71	$29.64	$34.26
27,500	104	Floodlight	$26.77	$33.70	$38.32
50,000	156	Floodlight	$30.11	$37.04	$41.66
		Metal Halide*			
9,000	43	Urban	$19.48	$26.41	$31.03
40,000	155	Urban	$31.50	$38.43	$43.05
78,000	295	Area	$72.77	$79.70	$84.32
110,000	395	Area	$99.48	$106.41	$111.03
40,000	155	Floodlight	$33.42	$40.35	$44.97
34,000	180	Floodlight (10)	$31.35	$38.28	NA
34,000	180	Floodlight (10)	NA	$42.10	$42.90
110,000	217	Floodlight (half night) (10)	$45.61	$52.54	$57.16
110,000	435	Floodlight (10)	NA	$83.70	NA
110,000	435	Floodlight (10)	$77.70	$84.63	$89.25
		Mercury Vapor*			
4,000	41	Suburban (7)	$13.55	NA	NA
4,000	41	Post Top (2)	$12.45 (5)	NA	$24.00 (6)
4,000	41	Post Top (7)	$16.43	NA	NA
7,500	75	Suburban (3)	$13.62	$20.55	$25.17
7,500	75	Urban (6)	$15.33	$22.26	$26.88
7,500	75	Post Top (7)	$23.42	NA	NA
20,000	152	Urban (6)	$21.09	$28.02	$32.64
		Light Emitting Diode (8) (9)			
3,700	11	Area 30 watts	$12.38	$19.31	$23.93
4,500	14	Area 40 watts	$12.90	$19.83	$24.45
5,500	18	Area 50 watts	$13.28	$20.21	$24.83
8,000	25	Area 70 watts	$13.60	$20.53	$25.15
15,500	40	Area 110 watts	$16.54	$23.47	$28.09
20,000	54	Area 150 watts	$18.44	$25.37	$29.99

OFFICIAL COPY
Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
30,500	79	Area 220 watts	$21.69	$28.62	$33.24
36,000	101	Area 280 watts	$24.75	$31.68	$36.30
44,500	151	Area 420 watts	$52.23	$59.16	$63.78
57,000	179	Area 530 watts	$58.60	$65.53	$70.15
16,500	47	Floodlight 130 watts	$28.29	$35.22	$39.84
33,500	48	Floodlight 260 watts (half night) (10)	$59.50	$66.43	$71.05
33,500	95	Floodlight 260 watts	$61.23	$68.16	$72.78

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture failure and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(2) Luminaire is not available for the lighting of streets, roadways, and other vehicle thoroughfares.

(3) Closed to new installations on or after July 1, 2005.

(4) Closed to new installations on or after September 15, 1985.

(5) Closed to new installations on or after November 12, 1991.

(6) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(7) Closed to new installations.

(8) Light Emitting Diode (LED) luminaires are available for new installations after January 28, 2014, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires and for customer requested replacements of existing high pressure sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(9) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2019. The Company will replace post top mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2024.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) Additional monthly charge for the underground conductor system: $0.07 for each increment of 10 feet, or less, over 150 feet per pole.

(2) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(3) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

OFFICIAL COPY
Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

(4) An underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, the charges under provision (1) of this section will apply in addition to the $4.62 charge.

(5) Additional monthly charge for the underground conductor system for existing pole installations in-service prior to November 12, 1991:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) For non-floodlight luminaires, color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $1.01 per lamp per month. For non-floodlight luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new non-flood luminaires on or after October 1, 2007.

(2) All non-floodlight luminaires will be installed on standard 30-foot wood poles. At Customer request, and for an additional charge, all non-floodlight luminaires can be installed on wood poles larger than the standard 30-foot, if the location permits the use of bucket-type equipment for mounting and servicing: 35-foot pole for 30 cents per month, or 40-foot pole for 41 cents per month.

(3) All luminaires installed on wood poles longer than 40-feet, or structures other than standard wood poles, can be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(4) All non-floodlight luminaires, with brackets longer than 30 inches but not longer than 20 feet, can be installed where use of bucket-type equipment is permitted for an extra charge of 71 cents per month per bracket.

(5) Where two or more luminaires were installed for service before November 12, 1991 on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(6) Luminaire locations shall be designated by the Customer and where only an extension of secondary facilities is required from the nearest distribution source, the rate per luminaire as stated above shall apply. When the number of required poles exceeds the number of luminaires requested, a monthly charge not less than $1.72 per standard wood pole shall

OFFICIAL COPY

Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

apply for luminaires installed for service before November 12, 1991. A monthly charge of $6.93 per standard wood pole shall apply for luminaires installed for service after November 12, 1991. When any installation requires an extension of primary facilities solely to serve the luminaires, an additional monthly charge equal to 1.0% of the estimated cost of the primary extension shall apply. Should any installation require guying of secondary facilities, a charge of 61 cents per month per guy shall apply.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires installed by the Company as standard, post top and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated by the Company as decorative or nonstandard, and for all standard luminaires mounted on supports other than standard wood poles or other non-standard supports, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

AVAILABILITY

Available for the purpose of lighting streets, highways, parks, and other public places for Municipal, County, State, and Federal Governments, at locations inside or outside municipal limits on the Company's distribution system. This Schedule is not available for service to non-governmental entities.

RATE

All-night street lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		High Pressure Sodium Vapor*			
9,500	47	Suburban (1)	$9.89	NA	NA
9,500	47	Urban	$11.32	NA	NA
13,000	56	Suburban (2) (in suitable mercury fixture)	$11.08	NA	NA
16,000	70	Urban	$12.35	NA	NA
27,500	104	Urban	$14.83	NA	NA
38,000	136	Urban (3) (in suitable mercury fixture)	$16.12	NA	NA
50,000	156	Urban	$18.39	NA	NA
140,000	391	Urban (installed on 55-foot wood pole)	$37.64	NA	NA
		Metal Halide*			
9,000	43	Urban	$18.01	NA	NA
40,000	155	Urban	$22.19	NA	NA
78,000	295	Area	$67.34	NA	NA
		Mercury Vapor*			
4,000	41	Suburban (1)	$6.52	NA	NA
7,500	75	Suburban (1)	$8.84	NA	NA
7,500	75	Urban (4)	$10.15	NA	NA
20,000	152	Urban (4)	$14.41	NA	NA
55,000	393	Urban (4)	$29.86	NA	NA
		Incandescent (5)			
	63	Suburban	$6.39	NA	NA
	63	Post Top	$2.40	NA	NA
		Light Emitting Diode (6) (7)			
3,700	11	Area 30 watts	$9.86	$16.79	$21.41
4,500	14	Area 40 watts	$10.30	$17.23	$21.85
5,500	18	Area 50 watts	$10.64	$17.57	$22.19
8,000	25	Area 70 watts	$10.88	$17.81	$22.43
15,500	40	Area 110 watts	$13.23	$20.16	$24.78
20,000	54	Area 150 watts	$14.76	$21.69	$26.31
30,500	79	Area 220 watts	$17.34	$24.27	$28.89
36,000	101	Area 280 watts	$19.81	$26.74	$31.36
44,500	151	Area 420 watts	$41.77	$48.70	$53.32
57,000	179	Area 530 watts	$59.79	$66.72	$71.34

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		Floodlight Service*			
16,000	70	High Pressure Sodium Vapor	$21.91	$28.84	$33.46
27,500	104	High Pressure Sodium Vapor	$25.82	$32.75	$37.37
50,000	156	High Pressure Sodium Vapor	$29.05	$35.98	$40.60
40,000	155	Metal Halide	$32.24	$39.17	$43.79
34,000	180	Metal Halide (10)	$30.25	$37.18	NA
34,000	180	Metal Halide (10)	NA	$41.00	$41.80
110,000	217	Metal Halide (half night) (10)	$44.00	$50.93	$55.55
110,000	435	Metal Halide (10)	NA	$80.96	NA
110.000	435	Metal Halide (10)	$74.96	$81.89	$86.51
15,000	47	LED 130 watts	$28.86	$35.79	$40.41
30,000	48	LED 260 watts (half night) (10)	$60.71	$67.64	$72.26
30,000	95	LED 260 watts	$62.47	$69.40	$74.02

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture repair and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) Closed to new installations on or after July 1, 2005.

(2) Closed to new installations on or after February 3, 1987.

(3) Closed to new installations on or after November 12, 1991.

(4) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(5) Closed to new installations.

(6) Light Emitting Diode (LED) luminaires are available for new installations, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires, and for customer requested replacements of existing sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(7) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 6 above beginning January 1, 2020 through December 31, 2023.

(8) "Existing Pole", "New Pole" and/or "New Pole Served Underground" rates are applicable for existing pole, new pole and/or new pole served underground installations on or after September 1, 2018. After this date, the "Existing Pole" rates are available only for luminaries attached to poles which are not installed solely to support the luminaire.

(9) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) For non-floodlight underground facilities installed prior to September 1, 2018 or for floodlight underground facilities installed prior to November 12, 1991, the additional monthly charge for the underground conductor system:

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

(2) For non-floodlight underground facilities installed on or after September 1, 2018 or for floodlight underground facilities installed on or after November 12, 1991, an underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, a charge of $0.07 for each increment of 10 feet, or less, over 150 feet will apply in addition to the $4.62 charge. This charge is also applicable to "New Pole Served Underground" rates over 150 feet per pole.

(3) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(4) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) The installation of luminaires at the standard monthly rates above includes Company-designated standard wood poles.

(a) Wood poles or structures other than Company-designated standard wood poles, may be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(b) The Company's standard metal street lighting pole is closed as of January 1, 2010. An extra monthly charge of $5.41 per month, per pole applies to installations prior to January 1, 2010.

(c) The Company's standard metal mast-arm pole may be installed for an extra monthly charge of $5.41 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole, per month, per pole applies to installations prior to January 1, 2010. The standard metal mast-arm pole without a luminaire is closed as of January 1, 2010. A monthly charge of $7.12 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole applies to installations prior to January 1, 2010.

(d) For non-floodlight luminaires, brackets longer than 12 feet, but not longer than 20 feet can be installed for an additional monthly charge of $4.36.

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

(2) For non-floodlight luminaires installed outside municipal limits prior to January 1, 2010, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. For floodlight luminaires installed prior to November 12, 1991, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. A monthly charge of $6.93 per pole shall be made for such excess number of poles installed for service on or after January 1, 2010 for non-floodlight luminaries or on or after November 12, 1991 for floodlight luminaires in or outside municipal limits.

(3) When the installation requested requires a primary extension solely to serve the luminaires, an additional monthly charge of 1.0% of the estimated cost of the primary extension will be made. For poles to support non-floodlight luminaires installed outside municipal limits prior to January 1, 2010 and for poles to support floodlight luminaires, should the installation of secondary facilities include downguys or spanguys, a charge of $0.61 per month per guy shall be made.

(4) Standard wood poles installed prior to January 1, 2010 may be provided for $1.72 per pole per month plus $.61 per month per guy for downguys or spanguys, if needed, when provided to solely support traffic signals. Standard wood poles installed January 1, 2010 and after, may be provided for $6.93 per pole per month when provided solely to support traffic signals.

(5) Color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $0.71 per lamp per month. For luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new luminaires on or after October 1, 2007.

(6) For non-floodlight luminaires installed prior to January 1, 2010, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72. For floodlight luminaires installed prior to November 12, 1991, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(7) For non-floodlight LED and floodlight luminaires, the Customer may, at its option, prepay the initial capital cost of poles and underground wiring, in which case the monthly rate per luminaire shall be the Existing Pole Rate shown above.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires designated as standard by the Company and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated as decorative or non-standard by the Company, and for all standard luminaires mounted on supports other than standard wood poles, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Twenty-Eighth Revised Leaf No. 35
Superseding NC Twenty-Seventh Revised Leaf No. 35

SCHEDULE NL
NONSTANDARD LIGHTING SERVICE
(PILOT)

AVAILABILITY

This Schedule is closed and not available for service to new installations after August 1, 2018 but remains in effect for continually effective agreements under this Schedule. Available, at the Company's option, for outdoor lighting applications not offered under one of the Company's standard lighting tariffs which may include new technologies. The type of luminaire(s) and services provided will be included in the contract with the Customer. This schedule is available as a pilot.

RATE

The monthly rate for this service will be determined as follows:

Monthly Services Payment = Levelized Capital Cost + Expenses + [Energy x 4.9797¢ per kWh]

Where:

Levelized Capital Cost is equal to the present value of all estimated capital related cash flows for a period corresponding to the time of engineering, design and installation of equipment through the term of the contract, including the cost of cutting and replacing of pavement in excess of one per luminaire, adjusted to a pre-tax amount and converted to a uniform monthly payment for the term of the contract. The estimated capital cash flows shall include installed cost of equipment, contingency allowances, property taxes, salvage value, adjustment to reflect additional supporting investment of general plant nature, and income tax impacts.

Expenses shall equal the present value of estimated expenses associated with the support and maintenance of the equipment, adjusted to a pre-tax amount and converted to a uniform monthly payment for the term of the contract. The estimated expenses shall include administrative and general expenses, expenses for labor and materials related to operations and maintenance, third party expenses for operations and maintenance, warranties, insurance, annual costs associated with working capital, other costs related to the operation and support of the installation, and income tax impacts.

The after tax cost of capital from the Company's most recent general rate case will be used to convert present values to uniform monthly payments.

Energy is the equal to the estimated average kilowatt hours used per month under this agreement.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

OFFICIAL COPY

Sep 26 2023

SCHEDULE NL
NONSTANDARD LIGHTING SERVICE
(PILOT)

OPTIONAL PREPAYMENT OF LEVELIZED CAPITAL COST

The Customer may, at its option, prepay the Levelized Capital Cost, in which case the monthly rate per luminaire shall be the Expenses plus Energy charges. The prepayment amount shall be the net present value of the after-tax cash flow of the Levelized Capital Cost using the current after-tax cost of capital.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract for Nonstandard Lighting Service from the Company for an original term of five (5) years, after which agreement terminates unless the customer enters into a new five (5) year contract for Nonstandard Lighting Service. In the event of early termination of an Agreement under this program, the Customer may be required to pay the Company a termination fee equal to the net present value of the Monthly Service Fee, less the Energy Charge, for the remainder of the term of the contract. However, if any successor customer has requested service supplied under this schedule prior to the effective date of the termination, the termination charge will be waived or reduced based on the contract of the successor customer.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC

NC Fifty-Sixth Revised Leaf No. 99
Superseding NC Fifty-Fifth Revised Leaf No. 99

SUMMARY OF RIDER ADJUSTMENTS

The following is a summary of Rider Adjustments that must be added to the bill calculated on the applicable rate schedule in order to compute the bill. The factors shown below include revenue-related taxes and regulatory fees. More specific information concerning these Riders is contained in the applicable Rider listed below.

Residential Schedules RS, RE, ES, RT, RSTC, RETC	**cents/kWh**	**Effective Date**
Fuel Cost Adjustment Rider	0.4870	1/1/24
Energy Efficiency Rider	0.3389	1/1/23
Existing DSM Program Costs Adjustment Rider	-0.0020	7/1/22
BPM Prospective Rider	-0.0120	7/1/22
BPM True-Up Rider	-0.0031	7/1/22
CPRE Rider	0.0369	9/1/22
EDIT-3 Rider	-0.1894	10/1/21
EDIT-4 Rider	-0.5074	1/1/24
Customer Assistance Recovery Rider	0.1246	1/1/24
Residential Decoupling Mechanism Rider	0.0000	1/1/24
Earnings Sharing Mechanism Rider	0.0000	1/1/24
Performance Incentive Mechanism Rider	0.0000	1/1/24
TOTAL cents/kWh	**0.2735**	

General Service Schedules SGS, BC, LGS, HLF, TS, S, OPT-V, PG, SGSTC	**cents/kWh**	**Effective Date**
Fuel Cost Adjustment Rider	0.6263	1/1/24
Energy Efficiency Rider	0.6242	1/1/23
Existing DSM Program Costs Adjustment Rider	-0.0020	7/1/22
BPM Prospective Rider	-0.0120	7/1/22
BPM True-Up Rider	-0.0031	7/1/22
CPRE Rider	0.0348	9/1/22
EDIT-3 Rider	-0.1132	10/1/21
EDIT-4 Rider	-0.3032	1/1/24
Earnings Sharing Mechanism Rider	0.0000	1/1/24
Performance Incentive Mechanism Rider	0.0000	1/1/24
TOTAL cents/kWh	**0.8518**	

Lighting Schedules PL, OL, NL	**cents/kWh**	**Effective Date**
Fuel Cost Adjustment Rider	0.6263	1/1/24
Energy Efficiency Rider	0.0000	1/1/23
Existing DSM Program Costs Adjustment Rider	-0.0020	7/1/22
BPM Prospective Rider	-0.0120	7/1/22
BPM True-Up Rider	-0.0031	7/1/22
CPRE Rider	0.0348	9/1/22
EDIT-3 Rider	-0.4875	10/1/21
EDIT-4 Rider	-1.3488	1/1/24
Earnings Sharing Mechanism Rider	0.0000	1/1/24
Performance Incentive Mechanism Rider	0.0000	1/1/24
TOTAL cents/kWh	**-1.1923**	

* Qualifying customers who have opted out of the Company's Energy Efficiency and/or Demand Side Management Programs are not subject to the applicable Energy Efficiency Rider charges based on the individual customer's opt-out election. Refer to Rider EE to determine the Rider EE amount, if any, applicable to customers who have opted out.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC

NC Fifty-Sixth Revised Leaf No. 99
Superseding NC Fifty-Fifth Revised Leaf No. 99

SUMMARY OF RIDER ADJUSTMENTS

Industrial Schedules I, OPT-V, PG	**cents/kWh**	**Effective Date**
Fuel Cost Adjustment Rider	0.5734	1/1/24
Energy Efficiency Rider	0.6242	1/1/23
Existing DSM Program Costs Adjustment Rider	-0.0020	7/1/22
BPM Prospective Rider	-0.0120	7/1/22
BPM True-Up Rider	-0.0031	7/1/22
CPRE Rider	0.0339	9/1/22
EDIT-3 Rider	-0.0886	10/1/21
EDIT-4 Rider	-0.2369	1/1/24
Earnings Sharing Mechanism Rider	0.0000	1/1/24
Performance Incentive Mechanism Rider	0.0000	1/1/24
TOTAL cents/kWh	**0.8889**	

Schedule HP – General Service	**cents/kWh Baseline**	**cents/kWh Incremental**	**Effective Date**
Fuel Cost Adjustment Rider	0.6263	0.0000	1/1/24
Energy Efficiency Rider	0.6242	0.6242	1/1/23
Existing DSM Program Costs Adjustment Rider	-0.0020	-0.0020	7/1/22
BPM Prospective Rider	-0.0120	-0.0120	7/1/22
BPM True-Up Rider	-0.0031	-0.0031	7/1/22
CPRE Rider	0.0348	0.0348	9/1/22
EDIT-3 Rider	-0.1132	-0.1132	10/1/21
EDIT-4 Rider	-0.3032	-0.3032	1/1/24
Earnings Sharing Mechanism Rider	0.0000	0.0000	1/1/24
Performance Incentive Mechanism Rider	0.0000	0.0000	1/1/24
TOTAL cents/kWh	**0.8518**	**0.2255**	

Schedule HP – Industrial	**cents/kWh Baseline**	**cents/kWh Incremental**	**Effective Date**
Fuel Cost Adjustment Rider	0.5734	0.0000	1/1/24
Energy Efficiency Rider	0.6242	0.6242	1/1/23
Existing DSM Program Costs Adjustment Rider	-0.0020	-0.0020	7/1/22
BPM Prospective Rider	-0.0120	-0.0120	7/1/22
BPM True-Up Rider	-0.0031	-0.0031	7/1/22
CPRE Rider	0.0339	0.0339	9/1/22
EDIT-3 Rider	-0.0886	-0.0886	10/1/21
EDIT-4 Rider	-0.2369	-0.2369	1/1/24
Earnings Sharing Mechanism Rider	0.0000	0.0000	1/1/24
Performance Incentive Mechanism Rider	0.0000	0.0000	1/1/24
TOTAL cents/kWh	**0.8889**	**0.3155**	

* Qualifying customers who have opted out of the Company's Energy Efficiency and/or Demand Side Management Programs are not subject to the applicable Energy Efficiency Rider charges based on the individual customer's opt-out election. Refer to Rider EE to determine the Rider EE amount, if any, applicable to customers who have opted out.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Forty-First Revised Leaf No. 60
Superseding NC Fortieth Revised Leaf No. 60

RIDER FCAR
FUEL COST ADJUSTMENT RIDER

APPLICABILITY

Service supplied under the Company's rate schedules are subject to approved fuel charge adjustments, if any, over or under the Rate set forth in the approved rate schedules. Adjustments are made pursuant to North Carolina General Statute 62-133.2 and North Carolina Utilities Commission Rule R8-55 as ordered by the North Carolina Utilities Commission.

BASE FUEL COSTS

Effective January 1, 2024, the Base Fuel Costs established in Docket No. E-7, Sub 1276 are: Residential: 2.0003¢ per kilowatt-hour, General Service/Lighting: 1.8217¢ per kilowatt-hour and Industrial: 1.8396¢ per kilowatt-hour. These amounts are included in the energy charges of the Company's rate schedules.

FUEL COST ADJUSTMENT AND EXPERIENCE MODIFICATION FACTOR

All service supplied under the Company's rate schedules is subject to an increment or decrement per kilowatt-hour as set forth below. This adjustment is not included in the rate schedules of the Company and therefore must be applied to the bill as calculated under the applicable rate.

RESIDENTIAL SERVICE		Fuel and Fuel Related Costs	
Adjustment to Residential		0.0000	¢/kWh
Experience Modification Factor & Interest	+	0.4863	¢/kWh
Net Fuel Rider Factor		0.4863	¢/kWh
Regulatory Fee Multiplier	×	1.001402	
Fuel Cost Adjustment Factor		0.4870	¢/kWh

GENERAL SERVICE AND LIGHTING		Fuel and Fuel Related Costs	
Adjustment to General Service and Lighting		0.0000	¢/kWh
Experience Modification Factor& Interest	+	0.6254	¢/kWh
Net Fuel Rider Factor		0.6254	¢/kWh
Regulatory Fee Multiplier	×	1.001402	
Fuel Cost Adjustment Factor		0.6263	¢/kWh

INDUSTRIAL SERVICE		Fuel and Fuel Related Costs	
Adjustment to Industrial		0.0000	¢/kWh
Experience Modification Factor & Interest	+	0.5726	¢/kWh
Net Fuel Rider Factor		0.5726	¢/kWh
Regulatory Fee Multiplier	×	1.001402	
Fuel Cost Adjustment Factor		0.5734	¢/kWh

OFFICIAL COPY

Sep 26 2023

RIDER EE
ENERGY EFFICIENCY RIDER

APPLICABILITY

Service supplied under the Company's rate schedules is subject to approved adjustments for new energy efficiency and demand-side management programs approved by the North Carolina Utilities Commission (NCUC). The Rider Adjustments are not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate.

As of January 1, 2023, cost recovery under Rider EE consists of the four-year term program, years 2014-2017, as well as rates under the continuation of that program for years 2018-2023 as outlined below. This Rider applies to service supplied under all rate schedules, except rate schedules OL, PL and NL for program years 2017-2023.

GENERAL PROVISIONS

This Rider will recover the cost of new energy efficiency and demand-side management programs beginning January 1, 2014, using the method approved by the NCUC as set forth in Docket No. E-7, Sub 1032, Order dated October 29, 2013, and as revised by Docket No. E-7, Sub 1130, Order dated August 23, 2017, and Docket No. E-7, Sub 1032, Order dated October 20, 2020.

TRUE-UP PROVISIONS

Rider amounts will initially be determined based on estimated kW and kWh impacts related to expected customer participation in the programs, and will be trued-up as actual customer participation and actual kW and kWh impacts are verified. If a customer participates in any vintage of programs, the customer is subject to the true-ups as discussed in this section for any vintage of programs in which the customer participated.

RIDER EE OPT OUT PROVISION FOR QUALIFYING NON-RESIDENTIAL CUSTOMERS

The Rider EE increment applicable to energy efficiency programs and/or demand-side management programs will not be applied to the energy charge of the applicable rate schedule for customers qualified to opt out of the programs where:

a. The customer has notified the Company that it has implemented, or has plans for implementing, alternative energy efficiency measures in accordance with quantifiable goals.
b. Electric service to the customer must be provided under:
    1. An electric service agreement where the establishment is classified as a "manufacturing industry" by the Standard Industrial Classification Manual published by the United States Government and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes. Additionally, all other agreements billed to the same entity associated with the manufacturing industry located on the same or contiguous properties are also eligible to opt out.
    2. An electric service agreement for general service as provided for under the Company's rate schedules where the customer's annual energy use is 1,000,000 kilowatt hours or more. Additionally, all other agreements billed to the same entity with lesser annual usage located on the same or contiguous properties are also eligible to opt out.

The following additional provisions apply for qualifying customers who elect to opt out:

For customers who elect to opt out of energy efficiency programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's energy efficiency programs each calendar year only during the annual two-month enrollment period between November 1 and December 31 immediately prior to a new Rider EE becoming effective on January 1. (Qualifying new customers have sixty days after beginning service to optout.)
- Customers may not opt out of individual energy efficiency programs offered by the Company. The choice to opt out applies to the Company's entire portfolio of energy efficiency programs.
- If a customer participates in any vintage of energy efficiency programs, the customer, irrespective of future opt out decisions, remains obligated to pay the remaining portion of the lost revenues for each vintage of energy efficiency programs in which the customer participated.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's energy efficiency programs during the first 5 business days of

OFFICIAL COPY

Sep 26 2023

RIDER EE
ENERGY EFFICIENCY RIDER

March each calendar year. Customers making this election will be back-billed retroactively to the effective date of the new Rider EE.

For customers who elect to opt out of demand-side management programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's demand-side management program during the enrollment period between November 1 and December 31 immediately prior to a new Rider EE becoming effective on January 1 of the applicable year. (Qualifying new customers have sixty days after beginning service to opt out.)
- If a customer elects to participate in a demand-side management program, the customer may not subsequently choose to opt out of demand-side management programs for three years.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's demand-side management program during the first 5 business days of March each calendar year. Customers making this election will be back-billed to the effective date of the new Rider EE.

Any qualifying non-residential customer that has not participated in an energy efficiency or demand-side management program may opt out during any enrollment period, and has no further responsibility to pay Rider EE amounts associated with the customer's opt out election for energy efficiency and/or demand-side management programs.

ENERGY EFFICIENCY RIDER ADJUSTMENTS (EEA) FOR ALL PROGRAM YEARS

The Rider EE amounts applicable to the residential and nonresidential rate schedules for the period January 1, 2023 through December 31, 2023 including utility assessments are as follows:

Residential	
Vintage 2018[1], 2019[1], 2020[1], 2021[1]	(0.0903) ¢ per kWh
Vintage 2020[2], 2021[2], 2022[2], 2023[2]	0.4292 ¢ per kWh
Total Residential Rate	0.3389 ¢ per kWh
Nonresidential	
Vintage 2018[3]	
Energy Efficiency	(0.0021) ¢ per kWh
Demand Side Management	(0.0002) ¢ per kWh
Vintage 2019[3]	
Energy Efficiency	0.0064 ¢ per kWh
Demand Side Management	0.0003 ¢ per kWh
Vintage 2020[3]	
Energy Efficiency	0.0247 ¢ per kWh
Demand Side Management	(0.0002) ¢ per kWh
Vintage 2021[3]	
Energy Efficiency	(0.0162) ¢ per kWh
Demand Side Management	(0.0173) ¢ per kWh
Vintage 2022[3]	
Energy Efficiency	0.0995 ¢ per kWh
Demand Side Management	0.0000 ¢ per kWh
Vintage 2023[3]	
Energy Efficiency	0.4323 ¢ per kWh
Demand Side Management	0.0970 ¢ per kWh
Total Nonresidential Rate	0.6242 ¢ per kWh

OFFICIAL COPY

Sep 26 2023

RIDER EE
ENERGY EFFICIENCY RIDER

[1] Includes the true-up of program costs, shared savings and lost revenues from Vintages 2018, 2019, 2020 and 2021

[2] Includes prospective component of Vintages 2020, 2021, 2022 and 2023

[3] Not Applicable to Rate Schedules OL, PL and NL

Each factor listed under Nonresidential is applicable to nonresidential customers who are not eligible to opt out and to eligible customers who have not opted out. If a nonresidential customer has opted out of a Vintage(s), then the applicable energy efficiency and/or demand-side management charge(s) shown above for the Vintage(s) during which the customer has opted out will not apply to the bill.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Nineteenth Revised Leaf No. 64
Superseding NC Eighteenth Revised Leaf No. 64

RIDER EDPR
EXISTING DSM PROGRAM COSTS ADJUSTMENT RIDER

APPLICABILITY

Service supplied under the Company's rate schedules is subject to approved Demand Side Management (DSM) program costs adjustments, if any, over or under the rate incorporated in the approved rate schedules.

EXISTING DSM PROGRAM RATE ADJUSTMENTS

The Commission has ordered effective for service rendered on and after January 1, 2008 that such an adjustment shall be included in the Company's rate schedules and an appropriate existing DSM program costs adjustment rider be filed together with the rate schedules to implement the changes to the existing DSM program costs components.

BASE EXISTING DSM PROGRAM COSTS

The Base Existing DSM Program Costs amount established effective January 1, 2024 in Docket No. E-7, Sub 1276 is 0.0045 cents per kilowatt-hour (¢/kWh).

EXISTING DSM PROGRAM COST ADJUSTMENT FACTOR

A rider adjustment will be applied to the energy charges of all NC Retail rate schedules in an amount to the nearest one ten-thousandth of a cent, as determined by the following formula, to the extent determined reasonable and proper by the Commission. This adjustment is not included in the rate schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate.

$$A = D / S$$

Where:

A = Existing DSM Program Costs Rate Adjustment per kilowatt hour applied to the applicable base rates rounded to the nearest one ten-thousandths of a cent

D = DSM deferral account balance for the period calculated as (((C × NC Allocation Factor) – E) + R)

Where:

C = Program costs from existing DSM programs as defined in Docket Nos. E-7, Sub 487, E-100, Sub 64, and E-100, Sub 75

NC Allocation Factor = NC Retail summer coincident peak / Total system summer coincident peak from current Cost of Service Study

E = Base Existing DSM Program Costs established January 1, 2024 in Docket No. E-7, Sub 1276 of 0.0045 ¢/kWh, multiplied by actual NC Retail kWh sales for the applicable period

R = Return calculated by applying, on a monthly basis, the net-of-tax overall rate of return approved in the last general rate case and compounding annually

S = Projected Sales, defined as projected North Carolina Retail jurisdictional kilowatt hour sales from all classes of customers for the applicable July 1 – June 30 rider period

		Effective July 1, 2022	
Change in Existing DSM Costs		-0.0020	¢/kWh
Regulatory Fee Multiplier	×	1.001302	
Change in Rates		-0.0020	¢/kWh

OFFICIAL COPY

Sep 26 2023

RIDER EDPR
EXISTING DSM PROGRAM COSTS ADJUSTMENT RIDER

The appropriate regulatory fee will be applied to rate adjustments approved under this Rider. The rider calculation will be subject to appropriate modification to reflect changes in income tax laws or regulations, subject to Commission approval.

Beginning in 2009, the Company shall file the Existing DSM Program Costs Adjustment Rider on April 1 of each year following the calendar year under consideration, to be effective July 1 of that year.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

RIDER NM
NET METERING

AVAILABILTY

Available to residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, micro-hydro or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's distribution system.

This Rider is not available to new nonresidential applications on and after January 1, 2024. Nonresidential customers may continue to receive service under this Rider until December 31, 2033 and then must transition to receive service under Rider NSC or another applicable rider.

GENERAL PROVISIONS

1. To qualify for service under this Rider, a residential Customer may be served on any residential rate schedule. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.
2. To qualify for service under this Rider, a nonresidential Customer may be served under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the Customer's Contract Demand or 1000 kW, whichever is less.
3. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kilowatt hours supplied by the Company, plus any demand or other charges under the applicable rate schedule. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity in kilowatt hours supplied by the utility during a monthly billing period, the Customer-Generator shall be credited for the excess kilowatt hours generated during that billing period. Charges or credits will be determined using the appropriate energy rates of the applicable rate schedule as further outlined in the RATE paragraph below.
4. All other provisions of the applicable rate schedule including, but not limited to, Determination of Billing Demand, Determination of On-Peak, Off-Peak, and Discount Hours, Contract Demand, Approved Fuel Charge Adjustments, etc. will apply to service supplied under this Rider.
5. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.
6. Customers served under this Rider are not eligible to participate in NC GreenPower.
7. For any customer receiving service under a non-time of use demand rate schedule, any renewable energy credits (RECs) shall be retained by the Company.

RATE

The rate shall be based on the applicable rate schedule, and the monthly bill shall be determined as follows:

I. The Basic Customer Charge shall be the Basic Customer Charge from the applicable rate schedule.

II. The Demand Charge shall be determined from the applicable schedule as appropriate.

III. Energy Charges (or Credits) shall be based on the net kilowatt hours purchased from or delivered to the Company for the bill month. For any bill month during which the Energy Charges are a net credit, the respective Energy Charges for the month shall be zero. Any Energy Credits shall carry forward on following month's bill. If the customer is on a time of use rate, the Energy Credits shall carry forward by first applying excess On-Peak kWh against On-Peak kWh charges and excess Off-peak kWh against Off-peak kWh charges, then applying any remaining On-Peak kWh against any remaining Off-Peak kWh charges. Effective with the seasonal rate change each year, any accrued credit not used to

OFFICIAL COPY

Sep 26 2023

RIDER NM
NET METERING

reduce billed kWh usage shall be reset to zero each April 30th. Excess energy delivered prior to April 30th will only be used to reduce usage by Company prior to April 30th. Credits shall not offset the Basic Customer Charge or the Demand Charge.

IV. A Standby Charge of $1.90 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Basic Customer Charge plus, if applicable, any of the following charges: Demand Charges, the Standby Charge, and the Extra Facilities Charge.

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt demand delivered by the Company to the Customer, and to measure the net kilowatt-hours purchased by the Customer or delivered to the Company. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

OFFICIAL COPY

Sep 26 2023

RIDER NM
NET METERING

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY
Sep 26 2023

RIDER SCG
SMALL CUSTOMER GENERATOR

AVAILABILITY

Available, at the Company's option, for residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, hydroelectric or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point interconnected with and operated in parallel with the Company's system. The Customer's generation system will be used to offset the Customer's energy and if applicable, demand requirements, supplied by the Company to the Customer. The Customer will be billed for all energy purchased from the Company under the applicable rate schedule and the excess energy will be purchased by the Company at the credit rate listed below. The Company reserves the right to limit the number of Customers allowed to interconnect generation systems and equipment on an individual electric circuit or substation. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.

This Rider is available to Customers who install electric energy systems and contract with the Company for service under this Rider subject to the following conditions:

1. Residential Customers

   To qualify for service under this Rider, a residential Customer must be receiving service under one of the Company's residential service schedules. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.

2. Nonresidential Customers

   To qualify for service under this Rider, a nonresidential Customer must be receiving service under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed Customer's Contract Demand or 1000 kW, whichever is less. The Contract Demand shall be the maximum demand to be delivered under normal conditions to the Customer excluding output from the Customer's installed electric energy system.

RATE

I. The applicable rate schedule for energy delivered to the Customer, and demand if applicable, shall be the rate schedule for which the Customer qualifies and / or selects for the Customer's class of service.

II. The following charges and credits will be added to the Customer's bill calculated under Paragraph I. above:

CHARGES

Supplemental Basic Customer Charge per month:	$3.92
Standby Charge per month, if applicable:	$1.90
(Refer to Determination of Standby Charges section below)	

CREDITS

The Customer will receive credits for all excess energy delivered by the Customer to the Company equal to the most recently approved Schedule PP (NC) Variable Rate Energy Credit applicable to the Customer's generation type (Interconnected to the Distribution System). Unless otherwise specified in the Company's contract with the Customer, payment of credits under this Schedule do not convey to the Company the right to renewable energy credits (RECS) associated with the energy delivered to the Company by the Customer.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Minimum Bill calculated from the Rate Schedule with which this Rider is used, plus the Supplemental Basic Customer Charge, plus, if applicable, the Standby Charge and the monthly Extra Facilities charge.

OFFICIAL COPY
Sep 26 2023

RIDER SCG
SMALL CUSTOMER GENERATOR

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt-hours delivered by the Company to the Customer, and if applicable, the kilowatt demand. The Company will also furnish, install, own and maintain metering equipment to measure the kilowatt-hours delivered from the Customer to the Company. The Customer's service will be metered with a single, bi-directional meter, which records independently the flow of electricity in each direction through the meter. The Company may require a contribution in aid of construction if it is required to provide to the Customer a metering installation that is deemed to be economically infeasible. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

DETERMINATION OF STANDBY CHARGES

The Standby Charge shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

DEFINITION OF "NAMEPLATE RATING"

The term "Nameplate Rating" shall mean the maximum electrical output capability of the Customer's generation system and equipment at any time.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor and to impose an Extra Facilities Charge accordingly, solely at the option of the Company. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

OFFICIAL COPY

Sep 26 2023

RIDER SCG
SMALL CUSTOMER GENERATOR

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing. The Company reserves the right to offer or require a contract for a longer original term of years, as specified in the individual contract with the customer, when justified by the circumstances.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY

Sep 26 2023

RIDER PS
POWERSHARE NONRESIDENTIAL LOAD CURTAILMENT

AVAILABILITY

Available on a limited and voluntary basis, at the Company's option to nonresidential customers receiving concurrent service from the Company on Schedule LGS, HLF, I, OPT-V and HP; however, customers on Schedule HP are eligible only for the Mandatory Curtailment Option. The Company shall limit the acceptance of contracts under the Mandatory Curtailment and Generator Curtailment Option to a collective total of 1,500,000 KW of Maximum Curtailable Demand on the Company's system.

GENERAL PROVISIONS

Under this Rider the Customer receives credits when, at the Company's request, the Customer agrees to reduce and maintain his load to a level specified in the individual contract, or as nominated on a per event basis, or transfers load to a standby generator, under one of the curtailment options below. The provisions of this Rider apply in addition to the stated provisions of the Customer's rate schedule.

Service under the Mandatory or Voluntary options of this Rider will not begin until, or unless the Company has satisfactory interval load data for the purposes of establishing the Forecasted Demand.

Continued service under this Rider is subject to satisfactory performance by the Customer, as determined by the Company, in response to the Company's request for curtailment.

DEFINITIONS

Contract Demand: The Contract Demand is the maximum kilowatt demand which the Company shall be required to supply to the Customer.

Maximum Curtailable Demand: The Maximum Curtailable Demand is either (a) that portion of the Contract Demand which the Company will supply to the Customer at all times except during Curtailment Periods under the Mandatory or Voluntary Curtailment Option or (b) the capacity the Customer agrees to transfer from the Company's source to the standby generator during Curtailment Periods under the Generator Curtailment Option. The customer will be required to curtail at least 100 kW during Curtailment Periods under the Mandatory or Voluntary Curtailment Option. The customer will be required to transfer at least 100 kW during Curtailment Periods and Tests under the Generator Option

Firm Demand: The Firm Demand, which may be specified at different values for the Summer months of June through September and the Winter months of October through May, is that portion of the Contract Demand which the Company will supply to the Customer without limitation on the periods of availability For customers served on Schedule HP, the Firm Demand must be less than the Customer Baseline (CBL).

Forecasted Demand: The Forecasted Demand is the kW per hour which the customer would be expected to register absent a Curtailment Period and is used to determine the Energy Credits applicable under the Mandatory or Voluntary Curtailment Option.

Curtailment Period: A Curtailment Period is that interval of time, initiated and terminated by the Company, (a) during which the participating customer will require service at no more than the applicable Firm Demand under the Mandatory or Voluntary Curtailment Option, or (b) during which the Customer is requested to offset load from the Company's source by transferring load to the Customer's engine/generator unit under the Generator Curtailment Option.

Exposure Period: The Exposure Period is that period of time within the month corresponding to the weekday peak demand periods and during which curtailment under these provisions is most likely to occur. Specifically, the Exposure Period for the purpose of computing monthly credits is defined as follows:

Summer Months of June through September
1:00 p m. to 9:00 p.m., Monday through Friday

Winter Months of October through May
6:00 a m. to 1:00 p m., Monday through Friday

OFFICIAL COPY

Sep 26 2023

RIDER PS
POWERSHARE NONRESIDENTIAL LOAD CURTAILMENT

MANDATORY CURTAILMENT OPTION

GENERAL PROVISIONS

The Company's request to curtail service under this option may be at any time the Company has capacity constraints, including generation, transmission or distribution capacity constraints or reactive power concerns. The Company, at its sole discretion, may limit requests for curtailment to certain groups of customers for valid reasons.

Under this option the customer agrees to reduce and maintain load to the Firm Demand specified in the contract. Customers served under the Mandatory Curtailment Option may also contract for service under the Voluntary Curtailment Option, but may not contract under the Generator Curtailment Option.

The Company reserves the right to test the provisions of this Rider twice per year, and shall give advance notice of any test to customers served under this Rider.

RATE

Facilities Fee $ 40.00 per month

Credits*

1. Capacity Credit

   Each month, a determination of the curtailable capacity available to the Company during the Exposure Period will be made in order to compute a credit under the Mandatory Curtailment Option. The resulting amount will be the Effective Curtailable Demand (ECD) and shall not be less than zero. The monthly Capacity Credit is equal to the ECD X $3.50/kW.

2. Energy Credit

   During any month when curtailment is requested, the Customer will also receive an energy credit of $.10 per kWh for the energy curtailed between the Firm Demand and the Forecasted Demand during a Curtailment Period.

   * HP customers see Schedule HP, Provision For Customers Served Under Rider PS

Penalty and Penalty Computation

If the Customer fails to reduce and maintain load at, or below the Firm Demand during any Curtailment Period, a penalty will be applied to the Customer's account for the month of occurrence at the rate of $2.00 per kWh for all kWh used above the Firm Demand.

CONTROL NOTICES AND LIMITATIONS

The Customer shall be notified of all initiations of Curtailment Periods at least thirty (30) minutes prior to such times. The Company may invoke Curtailment Periods for not more than 100 hours in any year. Further, the Company shall have the right to invoke a Curtailment Period at any time, subject to a maximum duration of 10 hours in any calendar day, which may be extended only by mutual agreement with the Customer.

VOLUNTARY CURTAILMENT OPTION

GENERAL PROVISIONS

The Company's request to curtail service under the Voluntary Curtailment Option may be at any time. Under this option, the customer agrees, on a per event basis, to reduce load to a Firm Demand. Customers served under the Voluntary Curtailment Option may also contract for service under the Mandatory Curtailment Option, but may not contract under the Generator Curtailment Option.

Customers who agree to curtail load during a Curtailment Period must indicate their desire to participate in the event in accordance with an offer, the details of which will be posted on the Duke Energy web site. The Customer will be required to

OFFICIAL COPY

Sep 26 2023

RIDER PS
POWERSHARE NONRESIDENTIAL LOAD CURTAILMENT

nominate an amount of load to be reduced during the Curtailment Period by establishing a Firm Demand. Customer nominations to curtail load will be accepted on a first-come, first-served basis, and are not firm until the Company has accepted the Customer's nomination. Prior to acceptance of any nomination, the Company may rescind the offer based on customer responses to the offer or due to changes in load conditions.

Under the Voluntary Curtailment Option each participating customer will receive notice of an offer to participate in a curtailment event and such notice will normally be made on the business day immediately prior to the event, but in no case will be less than one hour's notice prior to the beginning of the Curtailment Period. The offer will include the hourly energy prices ($/ kWh) for each hour of the Curtailment Period to be used to determine the Energy Credit.

The Company reserves the right to test the provisions of this Rider twice per year, and shall give advance notice of any test to customers served under this Rider.

RATE

Facilities Fee $ 40.00 per month (see Exception)

Exception. The Facilities Fee does not apply to customers concurrently enrolled under the Mandatory Curtailment Option.

Credits

Energy credits will be paid to the customer for the load curtailed between the Forecasted Demand and the Firm Demand during the Curtailment Period. Energy Credits are not paid for load curtailed below the Firm Demand.

Penalty and Penalty Computation

No payment will be made to the customer during a Curtailment Period unless the customer curtails at least 50% of the nominated load reduction in kilowatt hours.

CONTROL NOTICES AND LIMITATIONS

The Customer shall be notified of all initiations of Curtailment Periods at least thirty (30) minutes prior to such times. The Company may invoke Voluntary Curtailment Periods for an unlimited number of hours per year with no limit on the number of hours in any given calendar day.

CONCURRENT PARTICIPATION IN THE MANDATORY CURTAILMENT AND VOLUNTARY CURTAILMENT OPTION

For Customers participating under both the Mandatory Curtailment Option and the Voluntary Curtailment Option, the following provisions apply:

If prior to or during any Voluntary Curtailment Period the Company invokes a Mandatory Curtailment request, any customer participating in the Voluntary Curtailment Period will receive notice under the Mandatory Curtailment provision and be required to also comply with the Mandatory Curtailment provisions.

If prior to or during any Mandatory Curtailment period the Company invokes a Voluntary Curtailment request, any customer participating in the Mandatory Curtailment Period may receive an offer under the Voluntary Curtailment provision and be allowed to participate in the Voluntary Curtailment Period by providing additional curtailable load beyond their Mandatory Curtailment Option obligation.

Credits and penalties under the Mandatory Curtailment Option take precedence and will be determined before calculating credits under the Voluntary Curtailment Option. For concurrent participation in a Mandatory and Voluntary Curtailment event, the requirement under the Voluntary Curtailment Option to curtail at least 50% of the nominated load will be waived for Mandatory and Voluntary Curtailment Periods that run concurrently. In addition, during a concurrent Mandatory and Voluntary Curtailment Period, credits for the Voluntary Curtailment Period will exclude all load curtailed pursuant to the Mandatory Curtailment provisions.

OFFICIAL COPY

Sep 26 2023

RIDER PS
POWERSHARE NONRESIDENTIAL LOAD CURTAILMENT

GENERATOR CURTAILMENT OPTION

GENERAL PROVISIONS

Contracts for Generator Curtailment will be accepted for a minimum of 100 KW of load to be transferred from the Company's source to the standby generator. Under this option, the customer agrees to provide a source of capacity through load reduction at any time the Company has capacity constraints, including generation, transmission or distribution capacity constraints or reactive power concerns. The Company, at its sole discretion, may limit requests for curtailment to certain groups of customers for valid reasons. The Generator Option is not available to customers served under the Mandatory Curtailment Option or the Voluntary Curtailment Option.

When the Company requests the operation of the standby generator, a watt-hour meter(s) installed on or near the generator bus of the Customer's facility will record the kWh output at the generator. The Customer shall supply a 110-volt continuous source of power for the meter.

The Company will test the operation of the Customer's generator(s) each month, during which time the Customer will transfer load from the Company's source to the generator(s).

RATE

Facilities Fee $ 155.00 per generator meter per month (See Exception)

Exception: If, in the Company's sole opinion, cellular communication technology cannot be utilized to retrieve data from the meter, the customer may still be allowed to participate in the Generator Option by providing, at his expense, a dedicated telephone line. In such a case, the Facilities Fee will be reduced by $30.00.

Credits

1. Capacity Credit

   The Customer will receive a Capacity Credit of $3.50 per kW based on the average capacity generated, based on kilowatt-hours associated with the Maximum Curtailable Demand, during all Curtailment Periods of the current month and all tests.

2. Energy Credit

   The Customer will receive an Energy Credit of $.10 per kWh based on the metered output of the Customer's generator, for all kWh below the Maximum Curtailable Demand**,** during Curtailment Periods of the month and all tests.

Penalty and Penalty Computation

If the Customer fails to transfer to the generator at least 50% of the Maximum Curtailable Demand on a continuous basis~~,~~ during a Curtailment Period**,** a penalty will be applied to the Customer's account for the month of occurrence at the rate of $2.00 per kWh for the difference between the generated capacity and 50% of the Maximum Curtailable Demand.

CONTROL NOTICES AND LIMITATIONS

The Customer shall be notified of all initiations of Curtailment Periods at least fifteen (15) minutes prior to such times. The Company may invoke Curtailment Periods for not more than 100 hours in any year. Further, the Company shall have the right to invoke a Curtailment Period at any time, subject to a maximum duration of 10 hours in any calendar day, which may be extended only by mutual agreement with the Customer.

CONTRACT

MANDATORY CURTAILMENT OPTION AND GENERATOR OPTION

The Mandatory Curtailment Option and Generator Curtailment Option shall have an original minimum term of three (3) years, and shall renew annually thereafter for additional one (1) year terms until terminated by the Customer giving at least sixty

OFFICIAL COPY

Sep 26 2023

RIDER PS
POWERSHARE NONRESIDENTIAL LOAD CURTAILMENT

(60) days' notice of such termination in writing. In the event the Customer requests an amendment to or termination of the service agreement for this rider before the end of the applicable term without providing the required notice, and such termination ceases, or an amendment reduces, the Customer's obligation to curtail load, and the Customer continues the agreement for service under the applicable rate schedule at the same location, the Customer shall pay a termination fee equal to repayment of the credits received during the previous 12 months, plus the monthly Facilities Fee for each month in the remaining term of the agreement The termination fee may be adjusted based on the Maximum Curtailable Demand established in an amended contract by the customer.

VOLUNTARY CURTAILMENT OPTION

The Voluntary Curtailment Option shall have a minimum original term of one (1) year and shall renew annually thereafter until terminated by the Customer giving at least sixty (60) days previous notice of such termination in writing. In the event the Customer requests termination of service under this Rider before the end of the original term, and continues the agreement for service under the applicable rate schedule at the same location the Customer shall pay a termination fee equal to the monthly Facilities Fee for each month in the remaining original term of contract and required notice period

The Company reserves the right to terminate the Customer's Contract under this Rider at any time upon written notice to the Customer for the failure to perform satisfactorily during three or more events as determined by the Company, in response to requests for curtailment, or for violation of any of the terms or conditions of the applicable Schedule or this Rider.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Tenth Revised Leaf No. 80
Superseding NC Ninth Revised Leaf No. 80

RIDER IS
INTERRUPTIBLE POWER SERVICE

This Rider is closed and not available to new customers after February 26, 2009. This Rider remains in effect for nonresidential customers receiving concurrent service from the Company on Schedules LGS, I, HP, or OPT-V, served under continually effectively agreements for this Rider made prior February 26, 2009.

Under this Rider the Customer agrees, at the Company's request, to reduce and maintain his load at a level specified in the individual contract. The Company's request to interrupt service may be at any time the Company has capacity problems. For non-residential customers who enter into a specific contract for interruptible power service, the following provisions apply in addition to the stated provisions of the Customer's rate schedule:

1. General Provisions:

   Contracts for interruptible power service will be accepted by the Company on the basis of successive contracts, and each contract shall specify an interruptible, integrated demand of not more than 50,000 KW to be subject to these provisions. The Company shall limit the acceptance of contracts to a total of 1,100,000 KW of Interruptible Contract Demand on all non-residential schedules on the total system.

   At the option of the Company, Customers may specify that the interruptible load provisions of this Rider be applicable only to a designated portion of the Customer's load which shall be submetered for the purposes of this Rider.

   Duke reserves the right to test the provisions of this Rider once per year if there has not been an occasion during the previous 12 months when the Company requested an interruption. Duke shall give advance notice of any test to customers served under this Rider.

   Continued service under this Rider is subject to satisfactory performance by the Customer, as determined by the Company, in response to the Company's request for interruption.

2. Definitions:

   Contract Demand: The Contract Demand is the maximum kilowatt demand which the Company shall be required to supply to the Customer.

   Interruptible Contract Demand: The Interruptible Contract Demand of not more than 50,000 KW is that portion of the Contract Demand which the Company will supply to the Customer at all times except during Interruption Periods.

   Firm Contract Demand: The Firm Contract Demand, which may be specified at different values for the summer months of June through September and the winter months of October through May, is that portion of the Contract Demand which the Company will supply to the Customer without limitation on the periods of availability.

   Interruption Period: An Interruption Period is that interval of time, initiated and terminated by the Company, during which the Customer will require service at no more than the Firm Contract Demand and the Company is obligated to supply no more than the Firm Contract Demand.

   Penalty Demand: The Penalty Demand is the maximum thirty (30) minute integrated demand required by the Customer during an Interruption Period in excess of the Firm Contract Demand.

   Exposure Period: The Exposure Period is that period of time within the month corresponding to the weekday peak demand periods and during which interruption under these provisions is most likely to occur. Specifically, the Exposure Period for the purpose of computing monthly credits is defined as follows:

   Summer Months of June through September
   1:00 p m. to 9:00 p.m., Monday through Friday

   Winter Months of October through May
   6:00 a m. to 1:00 p m., Monday through Friday

OFFICIAL COPY

Sep 26 2023

RIDER IS
INTERRUPTIBLE POWER SERVICE

For customers served on a time of use rate, the Exposure Period will exclude the following holidays: New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving, and Christmas Day.

3. Control Notices and Limitations:

   The Customer shall be notified of all initiations of Interruption Periods at least thirty (30)e minutes prior to such times, and the Customer shall fully comply with the Company's requests to reduce and maintain his load to not more than the Firm Contract Demand for the duration of the Interruption Period. The Customer shall be notified of all terminations of Interruption Periods.

   The Company may invoke interruption periods for not more than 150 hours in any year. Further, the Company shall have the right to invoke an interruption period at any time, subject to a maximum duration of 10 hours in any calendar day, which may be extended only by mutual agreement with the Customer.

4. Credit and Credit Computation:

   Each month, a determination of the interruptible capacity available to the Company will be made in order to compute a credit. All energy consumed at a level above the Firm Contract Demand during the Exposure Period excluding the energy consumed above the Firm Contract Demand during interruption Periods, will be divided by the hours of duration of the Exposure Period excluding the hours of duration of Interruption Periods. The value thus computed will be reduced by the amount of the monthly maximum demand above the Firm Contract Demand which occurs during any Interruption Period. The resulting amount will be the Effective Interruptible Demand (EID) and shall not be less than zero.

   The formula for computation is:

$$EID = \frac{KWHEP - KWHIP}{HOURSEP - HOURSIP} - KW\ MP$$

   Where: EID = Effective Interruptible Demand

   KWHEP = Energy consumed during the Exposure Period above Firm Contract Demand

   KWHIP = Energy consumed during Interruption Periods above Firm Contract Demand

   HOURSEP = Hours of duration of the Exposure Period

   HOURSIP = Hours of duration of the Interruption Periods

   KWMP = Maximum monthly Penalty Demand

   The amount of credit to be applied to the Customer's account each month will be determined by the formula:

   Credit = EID x $3.50 / KWEID

5. Penalty and Penalty Computation:

   Should the Customer fail to reduce and maintain his load at, or below the Firm Contract Demand during any Interruption Period, a penalty will be applied to the Customer's account for the month of occurrence. The penalty shall be computed by the formula:

   Penalty = ΣKWP x $10.00

   Where: ΣKWP = the summation of the Penalty Demands occurring in each and every Interruption Period during the billing period.

OFFICIAL COPY

Sep 26 2023

RIDER IS
INTERRUPTIBLE POWER SERVICE

6. A monthly "Extra Facilities Charge", equal to 1.0% of the installed cost of the extra facilities necessary for interruptible power service, but not less than $25, shall be billed to the Customer in addition to the billing for energy or for demand plus energy, in accordance with the Extra Facilities provisions of the Company's Service Regulations.

7. Contract Period:

   Contracts with interruptible load provisions shall be for a minimum original term of five (5) years and thereafter until terminated, by giving at least twelve (12) months' previous notice of such termination in writing, but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances.

   The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer for failure of the Customer to reduce and maintain his load at or below the Firm Contract Demand during three or more Interruption Periods, or for violation of any of the terms or conditions of the applicable schedule or this Rider. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifth Revised Leaf No. 82
Superseding NC Fourth Revised Leaf No. 82

OFFICIAL COPY

Sep 26 2023

RIDER SG
STANDBY GENERATOR CONTROL

This Rider is closed and not available to customers on and after January 1, 2024.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Seventh Revised Leaf No. 84
Superseding NC Sixth Revised Leaf No. 84

RIDER EC
ECONOMIC DEVELOPMENT

AVAILABILITY

This Rider is closed to new participants on and after January 1, 2024.

Available, only at the Company's option, to nonresidential establishments receiving service from the Company under Schedule LGS, I, or OPT-V provided that the establishment is not classified as Retail Trade or Public Administration by the Standard Industrial Classification (SIC) Manual published by the United States Government.

This Rider is available for load associated with initial permanent service to new establishments, expansion of existing establishments, or new customers in existing establishments who make application to the Company for service under this Rider, and the Company approves such application after November 1, 1994. The New Load applicable under this Rider must be a minimum of 1,000 KW at one delivery point. To qualify for service under this rider, the customer must meet the qualifications under A. or B. below:

A. The Customer employ an additional workforce in the Company's service area of a minimum of seventy-five (75) full time equivalent (FTE) employees per 1,000 KW of New Load. Employment additions must occur following the Company's approval for service under this Rider.

B. The Customer's New Load must result in capital investment of four hundred thousand dollars ($400,000) per 1,000 KW of New Load. The capital investment must occur following the Company's approval for service under this Rider.

This Rider is not available to a new customer which results from a change in ownership of an existing establishment. However, if a change in ownership occurs after the customer contracts for service under this Rider, the successor customer may be allowed to fulfill the balance of the contract under Rider EC and continue the schedule of credits outlined below. This Rider is also not available for renewal of service following interruptions such as equipment failure, temporary plant shutdown, strike, or economic conditions. This Rider is also not available for load shifted from one establishment or delivery on the Duke system to another on the Duke system.

DEFINITIONS

New Load: New Load is that which is added to the Company's system by a new establishment after November 1, 1994. For existing establishments, New Load is the net incremental load above that which existed prior to approval for service under this Rider.

Delivery Date: The Delivery Date is the first date service is supplied under the contract.

Operational Date: The Operational Date shall be the date the facility is fully operational as declared by the Customer, but shall be no more than eighteen (18) months after the Delivery Date.

Month: The term "month" as used in this Rider means the period intervening between readings for the purpose of monthly billings. Readings will be collected each month at intervals of approximately thirty (30) days.

GENERAL PROVISIONS

1. The Customer must make an application to the Company for service under this Rider and the Company must approve such application before the Customer may receive service hereunder. The application must include a description of the amount of and nature of the new load and the basis on which the Customer requests qualification shown in A. or B. under Availability above. In the application, the Customer must affirm that availability of this Rider was a factor in the Customer's decision to locate the new load on the Duke system. For customers making application under paragraph A. above, the application shall also specify the total number of full time equivalent employees (FTE) employed by the Customer in all establishments receiving electric service from the Company's system, at the time of application for this Rider, and on the Operational Date.

2. The Customer must agree to a minimum contract term of ten (10) years, with the credits being available for a maximum period of four years immediately following the Operational Date.

3. For customers contracting under this Rider due to expansion, the Company will determine, based on historical usage, what portion of the Customer's load, qualifies as new Load eligible for this Rider.

4. To continue service under this Rider the customer must maintain a monthly average of 250 hours use of demand.

OFFICIAL COPY

Sep 26 2023

RIDER EC
ECONOMIC DEVELOPMENT

5. All terms and conditions of the rate schedule applicable to the individual customer shall apply to the service supplied to the Customer except as modified by this Rider.

APPLICATION OF CREDIT

Beginning with the Operational Date, a credit based on the percentages below will be applied to the total bill for the New Load contracted for under this Rider, calculated on the applicable rate schedule, including the Basic Facilities, Demand Charge, Energy Charge, or Minimum Bill, applicable Riders listed on Leaf No. 99, but excluding other applicable riders, and excluding Extra Facilities Charges.

Months 1 – 12	20%
Months 13 – 24	15%
Months 25 – 36	10%
Months 37 – 48	5%
After Month 48	0%

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of ten (10) years, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter, by giving at least sixty (60) days previous notice of such termination in writing. If the Customer request a change in rate schedule from that which was approved in conjunction with Rider EC, credit under Rider EC will no longer be available. Such a change will be allowed upon thirty (30) days written notice to the Company. An individual establishment will not be allowed to receive credits for more than four years under this Rider, unless the Company, at its option, agrees to accept a new application and contract for qualifying new load, and such application receives special approval by the Company. If at any time during the term of contract under this Rider the customer violates any of the terms and conditions of the Rider or the agreement, the Company may discontinue service under this Rider, and bill the customer under the applicable schedule without further credits. In the event the Customer requests an amendment to or termination of an agreement under this Rider before the expiration of the initial term of the agreement, the Customer will be required to pay the Company as an early termination charge the lower of:

(a) The net present value of the monthly minimum bills, including, but not limited to, basic facilities, demand, and extra facilities charges, for the remaining term under the agreement less the expected net present value of the monthly minimum bills for the initial term of contract of any successor customer who has applied for service at the premises prior to the effective date of the contract amendment or termination, provided, however, this amount shall not be less than zero.

or

(b) The sum of:

1) The loss due to early retirement ("LDER") of all transmission and distribution facilities specifically installed by the Company in order to provide the Customer with electric service under the agreement to the extent that such facilities will not be utilized by the Company to provide service under the initial term of contract of any successor customer who has applied for service at the premises prior to the effective date of the contract amendment or termination. The LDER amount shall be calculated as the installed cost of such facilities less accumulated depreciation, less any salvage value, plus removal cost, provided, however, this amount shall not be less than zero;

and

2) The repayment of credits received under this Rider to the extent required based upon the marginal cost to serve the Customer. This repayment obligation shall be calculated as the difference between the net charges to the Customer under the applicable rate schedule after the application of any credits received under this Rider and the Company's marginal cost to serve the Customer; provided, however, that this amount shall not be less than zero and shall not be greater than the total credits received by the Customer under this Rider. The Company's marginal cost shall be calculated under the Company's Schedule HP (NC) Hourly Pricing for Incremental Load.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Seventh Revised Leaf No. 87
Superseding NC Sixth Revised Leaf No. 87

RIDER ER
ECONOMIC REDEVELOPMENT

AVAILABILITY

This Rider is closed to new participants on and after January 1, 2024.

Available, only at the Company's option, to nonresidential establishments receiving service from the Company under Schedule LGS, I, or OPT-V, provided that the establishment is not classified as Retail Trade or Public Administration by the Standard Industrial Classification (SIC) Manual published by the United States Government.

This Rider is available for load associated with a new customer in an existing establishment served, or previously served, by the Company, provided the establishment has been unoccupied and/or has remained dormant for a minimum period of six months, as determined by the Company. In order to qualify for service under the Rider, the New Load must be a minimum of 500 KW at one delivery point at one voltage. In addition, the requested service necessary to serve the New Load must not result in additional investment in distribution facilities by the Company, however, minor alterations in the service supplied which can be accomplished feasibly and economically may be allowed. To qualify for service under this Rider, the Customer must meet the qualifications under A. or B. below

A. The Customer employ an additional workforce in the Company's service area of a minimum of thirty-five (35) full time equivalent (FTE) employees per 500 KW of New Load. Employment additions must occur following the Company's approval for service under this Rider.

B. The Customer's New Load must result in capital investment of two hundred thousand dollars ($200,000) per 500 KW of New Load. The capital investment must occur following the Company's approval for service under this Rider.

This Rider is not available for renewal of service following interruptions such as equipment failure, temporary plant shutdown, strike, or economic conditions. This Rider is also not available for load shifted from one establishment or delivery on the Duke system to another on the Duke system. However, if a change of ownership occurs after the customer contracts for service under this Rider, the successor customer may be allowed to fulfill the balance of the contract under Rider ER and continue the credits outlined below.

DEFINITIONS

New Load: New Load is that which is added to the Company's system as a result of the new customer taking service at an existing establishment and shall not be less than the Contract Demand.

Delivery Date: the Delivery Date is the first date service is supplied under the contract.

Operational Date: The Operational Date shall be the date the facility is fully operational as declared by the Customer, but shall be no more than twelve (12) months after the Delivery Date.

Month: The term "month" as used in this Rider means the period intervening between readings for the purpose of monthly billings. Readings will be collected each month at intervals of approximately thirty (30) days.

GENERAL PROVISIONS

1. The Customer must make an application to the Company for service under this Rider and the Company must approve such application before the Customer may receive service hereunder. The application must include a description of the amount of and nature of the new load and the basis on which the Customer requests qualification shown in A. or B. under Availability above. In the application, the Customer must affirm that availability of this Rider was a factor in the Customer's decision to locate the new load on the Duke system. For customers making application under paragraph A. above, the application shall also specify the total number of full time equivalent employees (FTE) employed by the Customer in all establishments receiving electric service from the Company's system, at the time of application for this Rider, and on the Operational Date.

2. The Customer must agree to a minimum contract term of five (5) years, with the credits being available for a maximum period of one (1) year following the Operational Date.

OFFICIAL COPY

Sep 26 2023

RIDER ER
ECONOMIC REDEVELOPMENT

3. For customers contracting under this Rider moving load from another facility, or where the previous customer's dormant load was more than 10% of the load contracted for under this Rider, the Company will determine, based on historical usage, what portion of the Customer's load, qualifies as new Load eligible for this Rider.

4. To continue service under this Rider, the Customer must maintain a monthly average of 300 hours use of demand.

5. All terms and conditions of the rate schedule applicable to the individual customer shall apply to service supplied to the Customer except as modified by this Rider.

APPLICATION OF CREDIT:

Beginning with the Operational Date, a credit of 50% will be applied to the total bill in Months 1 through 12 for the New Load contracted for under this Rider, calculated on the applicable rate schedule, including the Basic Facilities, Demand Charge, Energy Charge, or Minimum Bill, applicable Riders listed on Leaf No. 99, but excluding other applicable riders, and excluding Extra Facilities Charges.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of five (5) years, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter, by giving at least sixty (60) days' previous notice of such termination in writing. If the Customer requests a change in rate schedule from that which was approved in conjunction with Rider ER, credit under Rider ER will no longer be available. Such a change will be allowed upon thirty (30) days' written notice to the Company. If at any time during the term of contract under this Rider, the Customer violates any of the terms and conditions of the Rider or the agreement, the Company may discontinue service under this Rider, and bill the customer under the applicable schedule without further credits. In the event the Customer requests an amendment to or termination of an agreement under this Rider before the expiration of the initial term of the agreement, the Customer will be required to pay the Company as an early termination charge the lower of:

(a) The net present value of the monthly minimum bills, including, but not limited to, basic facilities, demand, and extra facilities charges, for the remaining term under the agreement less the expected net present value of the monthly minimum bills for the initial term of contract of any successor customer who has applied for service at the premises prior to the effective date of the contract amendment or termination, provided, however, this amount shall not be less than zero.

or

(b) The sum of:

1) The loss due to early retirement ("LDER") of all transmission and distribution facilities specifically installed by the Company in order to provide the Customer with electric service under the agreement to the extent that such facilities will not be utilized by the Company to provide service under the initial term of contract of any successor customer who has applied for service at the premises prior to the effective date of the contract amendment or termination. The LDER amount shall be calculated as the installed cost of such facilities less accumulated depreciation, less any salvage value, plus removal cost, provided, however, this amount shall not be less than zero;

and

2) The repayment of credits received under this Rider to the extent required based upon the marginal cost to serve the Customer. This repayment obligation shall be calculated as the difference between the net charges to the Customer under the applicable rate schedule after the application of any credits received under this Rider and the Company's marginal cost to serve the Customer; provided, however, that this amount shall not be less than zero and shall not be greater than the total credits received by the Customer under this Rider. The Company's marginal cost shall be calculated under the Company's Schedule HP (NC) Hourly Pricing for Incremental Load.

OFFICIAL COPY

Sep 26 2023

RIDER GS
GREEN SOURCE
(EXPERIMENTAL)

AVAILABILITY

This Rider is available on a limited and voluntary basis, at the Company's option, to nonresidential customers receiving concurrent service from the Company on Schedule OPT-V, who elect to displace all or a portion of the energy supplied for the customer's new load added to the Company's system after June 30, 2012, with procurement of renewable energy resources. The Customer's new load must be a minimum of 1000 kW. This Rider is not available to customers receiving service under Rider PS, SCG, NM or NSC. This Rider is available for enrollment for a three-year period following its initial approval, or until the aggregate program cap of approximately 1,000,000 annual megawatt hours is reached, whichever occurs first.

GENERAL PROVISIONS

To qualify for this Rider, the Customer must make an application to the Company requesting an annual amount of energy and Renewable Energy Certificates ("RECs") be produced or procured over a specific term. The application shall be accompanied by the payment of a nonrefundable application fee of $2000, which is intended to cover the Company's transaction fees related to the procurement of renewable energy pursuant to the Customer's application. The Company will make its best efforts to match the supply source, in terms of annual output and term of contract, with that requested by the Customer either by entering into a purchased power agreement(s) ("PPA") with a renewable energy supplier(s) or supplying the energy directly from one or more Duke Energy Carolina renewable energy assets that are dedicated to serving Rider GS customers. The Company shall allow the Customer to review the negotiated price terms and the terms and conditions of a PPA or the price offered from a dedicated Company asset prior to the Customer's election to participate in this Rider. Upon review of the price, and terms and conditions in the case of a PPA, the Customer may elect to move to proceed with or cancel its application; provided however, the terms and conditions of a PPA with a renewable energy supplier shall be set in Duke Energy Carolinas' sole discretion. In either case, the Customer shall be responsible for the entire cost incurred under the PPA or use of Company's asset. The renewable energy supplier is a renewable energy resource from which the Company procures energy and "RECs" as a result of the Customer's election under this rider.

In order to participate in this Rider, the Customer shall provide the Company a guarantee, surety bond, letter of credit or other form of security that is acceptable to the Company. Such security for payment of all obligations to the Company under this Rider shall be in an amount sufficient to cover the Company's full costs and other obligations of Company, including a termination or default of Customer's obligations under this Rider during its term.

In procuring the renewable energy, the Company will ensure that renewable energy resources utilized under this rider are or have been placed in service on or after January 1, 2007.

The Company shall not be liable to the Customer in the event that the renewable energy supplier fails to provide renewable energy to the Company and will make reasonable efforts to encourage the renewable energy supplier to resume production as soon as possible. However, in the event that the renewable energy supplier terminates the renewable energy contract with the Company, for any reason during the term of contract with the Customers, the Company, at the election of the Customer, shall make reasonable efforts to enter into a new purchased power agreement with another renewable energy supplier or to provide renewable energy from a Duke Energy Carolinas facility as soon as practicable with the cost of the renewable energy to the Customer revised accordingly.

This Rider is for retail service, in conjunction with the electric service agreement for the customer served at retail by the Company, in consideration of the Customer's retail purchase commitment under this Rider having induced a

OFFICIAL COPY

Sep 26 2023

RIDER GS
GREEN SOURCE
(EXPERIMENTAL)

specified and agreed upon commitment by the Company to purchase or invest in a specified renewable energy resource.

The Company will retire the RECs associated with the energy procured for the participating customer upon receipt of payment from the Customer.

RATE

CHARGES

I. The rate for service supplied to the customer shall be the applicable time of use rate schedule including the Basic Customer Charge, Peak Demand Charge, Mid-Peak Demand Charge, Base Demand Charge, On-Peak Energy Charge, Off-Peak Energy Charge, Discount Energy Charge, and all applicable Riders, plus

II. Charges for the total cost of the renewable energy and RECs produced by the Company or procured under a PPA as a result of the Customer's election, during the previous billing period, determined on an hourly basis, plus

III. Rider GS Administrative Charge of $500.00 per month plus .02¢/kWh of renewable energy produced or procured as a result of the Customer's election during the previous billing period

CREDITS

I. Bill credits for renewable energy shall be based on a ¢/kWh rate equal to the avoided capacity and energy expense during the term in which the renewable energy supplier delivers renewable energy to the Company or the Company supplies renewable energy from a dedicated asset, applied to the actual renewable kWh procured or produced. The amount of the bill credits shall be determined at the sole discretion of the Company consistent with applicable North Carolina and federal law and regulation, including 18 C.F.R. § 292, using the Company's avoided cost model to determine the avoided capacity and energy fixed over the term the term in which the renewable energy supplier delivers to the Company. In the event that the credits for avoided capacity and energy, as calculated above, exceed the cost of the renewable energy and RECs produced or procured by the Company, on a ¢/kWh basis, such credits shall be limited to a ¢/kWh amount equal to the ¢/kWh cost of the renewable energy and RECs produced or procured by the Company. The Company shall allow the Customer to review the proposed bill credit prior to the Customer's election to participate in this Rider. Upon review of the proposed bill credit, the Customer may elect to proceed with or cancel its application to participate.

All terms and conditions of the rate schedule applicable to the individual Customer shall apply to the service supplied to the Customer except as modified by this Rider.

CONTRACT PERIOD

Each Customer shall enter into a contract for service under this Rider for a term and with terms and conditions consistent with the term and terms and conditions of the contract with the renewable energy supplier, or as agreed upon between Company and Customer in the case of renewable energy produced from a Duke Energy Carolinas facility, but, in either case the contract will not be for less than 3 years and not more than 15 years. If the Customer requests an amendment to or termination of the service agreement, or defaults on the service agreement before the expiration of the term of the agreement, the Customer shall pay to the Company an early termination charge equal to the full amount due under the termination and damages provisions set forth in the PPA(s). Such termination charge

OFFICIAL COPY

Sep 26 2023

RIDER GS
GREEN SOURCE
(EXPERIMENTAL)

may be adjusted if and to the extent a successor customer requests service under this Rider and fully assumes the obligation for the purchase of renewable energy prior to the effective date of the contract amendment or termination; provided, however, Company will not utilize or change utilization of its assets and positions to minimize Customer's costs due to such early termination.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Second Revised Leaf No. 131
Superseding NC First Revised Leaf No. 131

RIDER EDIT-4
EXCESS DEFERRED INCOME TAX RIDER #4

APPLICABILITY

All service supplied under the Company's rate schedules is subject to a decrement per kilowatt-hour as set forth below. This decrement is not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate.

This adjustment reduces rates for savings realized with The Federal Tax Cuts and Jobs Act that reduced corporate federal income tax rates from 35% to 21% effective January 2018. These federal savings reflect a credit for unprotected excess deferred income taxes resulting from that change. This rider shall remain in effect for 29 months as of January 1, 2024 and shall terminate and no longer be applicable for service on and after June 1, 2026.

MONTHLY RATE

The decremental rate for the appropriate rate class, including revenue-related taxes and regulatory fees, shall be as shown in the following table:

Rate Class	Applicable Schedules	Billing Rate (¢/kWh)
Residential	RS, RE, ES, RT, RSTC, RETC	(0.5074)
General Service	SGS, BC, LGS, TS, OPT-V, HP, PG, S, SGSTC, HLF	(0.3032)
Industrial Service	I, OPT-V, HP, PG	(0.2369)
Lighting	OL, PL, NL	(1.3488)

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixth Revised Leaf No. 133
Superseding NC Fifth Revised Leaf No. 133

RIDER STS
STORM SECURITIZATION

APPLICABILITY

All service supplied under the Company's rate schedules is subject to approved storm cost recovery adjustments, an increment per kilowatt hour as set forth below. This increment is not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate.

The Storm Recovery Charge shall be paid by all existing or future retail customers receiving transmission or distribution service, or both, from Company or its successor or assignees under Commission-approved rate schedules or under special contracts, even if the customer elects to purchase electricity from alternative electric suppliers following a fundamental change in regulation of public utilities in this State.

STORM RECOVERY CHARGE

The Storm Recovery Charge applicable to the Energy Charge under the Company's various rate schedules was approved in a financing order issued to the Company by the North Carolina Utilities Commission and will be adjusted at least semi-annually to ensure timely payment of principal, interest and financing costs of storm recovery bonds from the effective date of the Storm Recovery Charge until the storm recovery bonds have been paid in full or legally discharged and the financing costs have been fully recovered. As approved by the Commission, a Special Purpose Entity (SPE), wholly owned by Company, has been created and is the owner of the storm recovery property which includes all rights to impose, bill, charge, collect, and receive the relevant Storm Recovery Charge and to obtain periodic adjustment to such charges. Company, as servicer, shall act as SPE's collection agent for the relevant Storm Recovery Charge.

MONTHLY RATE

Effective for service rendered on and after January 1, 2023, the incremental rate for the appropriate class, including revenue-related taxes and regulatory fees, shall be as shown in the following table:

Rate Class	Applicable Schedules	Billing Rate (¢/kWh)
Residential	ES, RE, RETC, RS, RSTC, RT	0.0438
General Service	BC, HP, LGS, HLF, OPT-V, PG, S, SGS, SGSTC, TS	0.0144
Industrial	HP, I, OPT-V, PG	0.0077
Lighting	NL, OL, PL	0.1595

Duke Energy Carolinas, LLC
(North Carolina Only)

NC First Revised Leaf No. 135
Superseding NC Original Leaf No. 135

OFFICIAL COPY

Sep 26 2023

RIDER SCR
STORM COST RECOVERY RIDER

APPLICABILITY

This Rider is terminated on and after January 1, 2024.

OFFICIAL COPY

Sep 26 2023

RIDER NSC
NON-RESIDENTIAL SOLAR CHOICE

AVAILABILITY

Available to non-residential Customer-Generators receiving concurrent service from the Company, on a metered rate schedule, except as indicated under General Provisions. A Customer-Generator is an owner, operator, or lessee of an electric generation unit that generates or discharges electricity from a renewable energy resource, including an energy storage device configured to receive electrical charge solely from an onsite renewable energy resource. The renewable net energy metered (NEM) generation, which may include a solar photovoltaic; solar thermal; wind powered; hydroelectric; geothermal; tidal or wave energy; recycling resource; hydrogen fueled or combined heat and power derived from renewable resources; or biomass fueled generation source of energy, must be installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's system. The generation must be located at a single premise owned, operated, leased or otherwise controlled by the Customer. The system may either be owned by the Customer or by a lessor and leased to the Customer.

Customers applying for service under this Rider must be served under an approved general service or industrial rate schedule that includes time-of-use (TOU) periods.

If Customer receives electric service under a schedule other than a TOU schedule with demand rates, any renewable energy credit or "green tags" shall be provided by Customer at no cost to Company. If service is received under a time-of-use schedule with demand rates, all renewable energy credits or "green tags" shall be retained solely by Customer.

GENERAL PROVISIONS

1. To qualify for service under this Rider, the Customer must comply with all applicable interconnection standards and must provide, in writing, the Nameplate Capacity of the Customer's installed renewable generation system. Any subsequent change to the Nameplate Capacity must be provided by Customer to Company in writing by no later than 60 days following the change.

2. To qualify for service under this Rider, the Customer must not be served on another parallel generation rate schedule or rider. For Customer-owned facilities, the Nameplate Capacity of Customer's installed renewable generation system and equipment must not exceed the lesser of 5,000 kW AC or 100% of the Customer's contract demand which shall approximate the Customer's maximum expected demand. For leased facilities, the Nameplate Capacity of Customer's installed renewable generation system and equipment must not exceed the lesser of 1,000 kW AC or 100% of the Customer's contract demand which shall approximate the Customer's maximum expected demand.

3. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.

4. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kWh supplied by the Company plus any demand or other charges under the applicable rate schedule or riders.

5. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity supplied by the Company during a monthly billing period, the Customer-Generator shall be credited for the net excess energy in kWh generated during that billing period at the Monthly Credit rate below.

6. Net electricity will be calculated for each TOU period, in descending order by price. Any net excess energy from one TOU period will be applied to the next TOU period, as applicable. After net electricity has been calculated for all TOU periods, the Customer-Generator shall be credited for any remaining net excess energy at the Monthly Credit rate below.

7. In the event the Company determines that it is necessary to increase the capacity of facilities beyond those required to serve the Customer's electrical requirement or to install a dedicated transformer or other equipment to protect the safety and adequacy of electric service provided to other customers, the Customer shall pay the estimated cost of the required transformer or other equipment above the estimated cost which the Company would otherwise have normally incurred to serve the Customer's electrical requirement, in advance of receiving service under this Rider.

OFFICIAL COPY

Sep 26 2023

RIDER NSC
NON-RESIDENTIAL SOLAR CHOICE

8. A Standby Charge of $1.90 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a TOU demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

RATE

All provisions of the applicable schedule and other applicable riders will apply to service supplied under this Rider, except as modified herein. In addition to all charges in the applicable rate schedule for Customer's net electrical usage, the following credit will be applied to net electricity delivered to the grid by Customer's renewable generation as specified under General Provisions:

Monthly Credit for Net Excess Energy, per kWh	$0.0335

METERING REQUIREMENTS

The Company will furnish, install, own and maintain a billing meter to measure the kW demand delivered by the Company to the Customer, and to measure the net kWh purchased by the Customer or delivered to the Company. For renewable generation capacity of 20 kW AC or less, the billing meter will be a single, bi-directional meter which records independently the net flow of electricity in each direction through the meter, unless Customer's overall electrical requirement merits a different meter. For larger renewable generation capacities, the Company may elect to require two meters with 30-minute interval capabilities to separately record Customer's electrical consumption and the total generator output, which will be electronically netted for billing. The Customer grants the Company the right to install, operate, and monitor special equipment to measure the Customer's generating system output, or any part thereof, and to obtain any other data necessary to determine the operating characteristics and effects of the installation. All metering shall be at a location that is readily accessible by the Company.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities Charge shall not apply.

POWER FACTOR

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kWh, as appropriate. The Company reserves the right to install facilities

OFFICIAL COPY

Sep 26 2023

RIDER NSC
NON-RESIDENTIAL SOLAR CHOICE

necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generation system is less than 20 kW and uses an inverter.

CONTRACT PERIOD

The Customer shall enter into a contract for service under this Rider for a minimum original term of one (1) year, and the contract shall automatically renew thereafter, except that either party may terminate the contract after one year by giving at least 60 days prior notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the renewable generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early termination, in accordance with the Company's Service Regulations.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 144

OFFICIAL COPY

Sep 26 2023

RIDER CAR
CUSTOMER ASSISTANCE RECOVERY

APPLICABILITY

The incremental rate shown below is not included in the Rate provision in the rate schedules listed below. This adjustment increases billing rates to fund the Customer Assistance Program. This Rider is not applicable to the Lighting rate class.

MONTHLY RATE

The incremental rate for the appropriate rate class, including revenue-related taxes and regulatory fees, shall be as shown in the following table:

Rate Class	Applicable Schedules	Billing Rate ($/kWh for Residential; $/bill for General Service and Industrial)
Residential	RS, RE, ES, RT, RSTC, RETC	$0.001246
General Service	SGS, BC, LGS, TS, OPT-V, HP, PG, S, SGSTC, HLF	$1.30
Industrial	I, OPT-V, HP, PG	$1.30

OFFICIAL COPY
Sep 26 2023

RIDER GSA
GREEN SOURCE ADVANTAGE

AVAILABILITY

This Green Source Advantage Program ("GSA Program" or "Program") is available to nonresidential customers meeting the eligibility criteria specified herein and receiving concurrent service on another rate schedule, excluding service under outdoor lighting schedules, who elect to direct the Company to procure renewable energy on the Customer's behalf pursuant to the terms of the GSA Program, as approved by the Commission. Eligibility for the Program is limited under N.C. Gen. Stat. § 62-159.2 to the University of North Carolina ("UNC") system, major military installations, and nonresidential customers with a minimum Maximum Annual Peak Demand of 1,000 kW or an aggregated Maximum Annual Peak Demand at multiple service locations of 5,000 kW (collectively, "Eligible GSA Customers" or "Customer"). The Program is also limited to a combined total of 600 MW of renewable energy facilities between the Duke Energy Carolinas and Duke Energy Progress service territories ("Maximum GSA Program Capacity"). Of the 600 MW of Maximum GSA Program Capacity available under the Program, 250 MW shall be reserved exclusively for use by the UNC system, and 100 MW shall be reserved exclusively for use by major military installations in North Carolina (together, the "Reserved Capacity"). Pursuant to Section 11.19.(f1) of Session Law 2021-180, the total 350 MW of Reserved Capacity shall also be made available and reserved for an "eligible customer" defined as a customer of an electric utility that locates a new manufacturing facility at a project site that is subject to agreement with the Department of Commerce pursuant to Section 11.19.(d) of Session Law 2021-180. The remaining 250 MW shall be reserved for use by Eligible GSA Customers in either Duke Energy Carolinas or Duke Energy Progress service territories on a first-come, first-served basis. Any Reserved Capacity that is not subscribed by the UNC system or major military installations by August 5, 2022 shall be solely reserved for an eligible customer pursuant to Section 11.19.(f1) of Session Law 2021-180 through January 1, 2028. This Rider and the Program shall remain open to Eligible GSA Customers pursuant to the Program's terms and conditions, as approved by the Commission, for a period of five years following initial Program approval of August 5, 2019 and shall remain open to an "eligible customer" pursuant to Section 11.19.(f1) of Session Law 2021-180 until January 1, 2028.

DIRECTED PROCUREMENT OF GSA FACILITIES

The Program allows Eligible GSA Customers to direct the Company to procure renewable energy that will be used to supply all customers and allows the Customer to obtain the renewable energy certificates ("RECs") generated by a GSA Facility ("GSA Facility"). A GSA Facility must be a new renewable energy facility located in the Duke Energy Carolinas service territory in either North Carolina or South Carolina with supply that will be dedicated to the Program by the facility owner ("Renewable Supplier") and used to serve all customers.

Customers seeking to participate in the Program shall have the option to either (1) request affiliates of Duke Energy Carolinas to develop a facility or (2) identify and propose to the Company a GSA Facility developed by another Renewable Supplier. The Renewable Supplier will enter into a power purchase agreement ("GSA PPA") with the Company. The Customer will negotiate price terms directly with a Renewable Supplier. As described below, the Renewable Supplier shall transfer RECs directly to the Customer through a separate contractual arrangement.

APPLICATION PROCESS AND GSA SERVICE AGREEMENT

To participate in the GSA Program, a Customer must submit an application to the Company requesting an annual amount of renewable capacity to be developed or procured on the Customer's behalf. The Customer may apply for the Company to develop or procure renewable generation capacity up to 125% of the Customer's aggregate Maximum Annual Peak Demand at eligible Customer service location(s) within Duke Energy Carolinas' North Carolina service territory. An eligible customer under Session Law 2021-180 is authorized to subscribe to a capacity amount of remaining Reserved Capacity sufficient to produce on an annual basis one hundred percent (100%) of the eligible customer's actual annual electricity usage or reasonably projected annual electricity usage over the immediately subsequent annual period, up to the total Reserved Capacity available at the time of subscription and not to exceed 350 MW.

The Customer's application will designate the Renewable Supplier selected by the Customer. The application shall also identify the requested Bill Credit option and contract term (two, five, ten, fifteen, or twenty years for a Customer electing Administratively Established Avoided Cost Bill Credit or any number of years up to the 20 year limit for a Customer electing the Hourly Marginal

OFFICIAL COPY

Sep 26 2023

RIDER GSA
GREEN SOURCE ADVANTAGE

Avoided Cost Bill Credit). All Customer applications shall be accompanied by the payment of a $2,000 nonrefundable application fee. Program reservations will be accepted on a "first-come-first-served" basis based upon the date and time of receipt of the Customer's completed application and application fee. Subsequent applications will be held until earlier applications are resolved and will not be rejected until the Company's Maximum GSA Program Capacity is satisfied. The $2,000 application fee will be refunded to the Customer only in the event that the Customer's application is rejected due to insufficient GSA Program Capacity.

A Customer submitting an application shall also be required to deliver, at the time of application, a standard-form term sheet executed by the Customer and Renewable Supplier, which shall identify the Renewable Supplier and provide information about the proposed GSA Facility and other information as requested by the Company and identified in the term sheet.

The GSA Service Agreement shall include the general terms and conditions applicable under this Rider and shall specify the rates and charges applicable under the GSA Program for the contract term. The Customer must execute and return the GSA Service Agreement within 30 days of delivery by the Company and the Renewable Supplier must execute and return the GSA PPA within 30 days of delivery by the Company. Failure to timely execute and return the GSA Service Agreement or GSA PPA will result in termination of the Customer's application and GSA capacity reservation, which would then require the Customer to start the Program enrollment process anew in order to participate in the Program.

GSA PPA RATES AND TERMS

The GSA PPA delivered to a Renewable Supplier selected to provide a GSA Facility shall include delivery of energy and capacity. The GSA PPA contract price shall be equal to the applicable Bill Credit selected by the Customer.

RENEWABLE ENERGY CREDITS

The Renewable Supplier is required to register the Renewable Facility with NC-RETS pursuant to Commission Rule R8-66 or another REC tracking system to facilitate the issuance of RECs. The Renewable Supplier shall transfer all RECs to the Customer pursuant to the GSA Service Agreement, and the GSA Service Agreement shall include an attestation by the Customer that the RECs generated by the designated GSA Facility will be transferred by the Renewable Supplier to the applicable tracking account identified by the GSA Customer. The Renewable Supplier shall be solely responsible for procuring, delivering, and transferring RECs to the Customer.

MONTHLY RATE

An amount computed under the GSA Customer's primary rate schedule and any other applicable riders plus the sum of the (1) the GSA Product Charge, (2) the GSA Bill Credit, and (3) the GSA Administrative Charge.

1. GSA Product Charge – The GSA Product Charge shall be equal to the Negotiated Price. The monthly GSA Product Charge shall be determined by multiplying the Negotiated Price times the energy produced by the GSA Facility in the prior billing month.

   GSA Bill Credit – The GSA Bill Credit shall, as elected by the Customer and designated in the GSA Service Agreement, be either (1) the avoided cost bill credit ("Administratively Established Avoided Cost Bill Credit") or (2) the hourly rate bill credit ("Hourly Marginal Avoided Cost Bill Credit").

   Administratively Established Avoided Cost Bill Credit:

   The Administratively Established Avoided Cost Bill Credit shall be equal to the fixed levelized avoided energy and capacity rate calculated using the methodology approved pursuant to N.C. Gen. Stat. § 62-156(c) calculated over a period of 2 years (for contract terms of 2 years) or 5 years (for contract terms of 5 years or more). In the case of contract terms longer than 5 years, the Administratively Established Avoided Cost Bill Credit will be recalculated every five (5) years using the then approved methodology. If the Administratively Established Avoided Cost Bill Credit is designated in the GSA Service Agreement as the applicable bill credit, the Monthly GSA Bill Credit shall be determined by multiplying the applicable Administratively Established Avoided Cost Bill Credit times the energy

OFFICIAL COPY

Sep 26 2023

RIDER GSA
GREEN SOURCE ADVANTAGE

produced in the applicable hours by the GSA Facility in the prior billing month.

Hourly Marginal Avoided Cost Bill Credit:

The Hourly Marginal Avoided Cost Bill Credit applicable to each hour shall be equal to the following:

Hourly Rate = (Hourly Energy Price + Hourly Capacity Price).

i. Hourly Energy Price = Expected marginal production cost, and other directly-related costs.

ii. Hourly Capacity Price = marginal capacity cost during hours with generation constraint.

iii. The Hourly Rate will not, under any circumstance, be lower than zero.

If the Hourly Marginal Avoided Cost Bill Credit is designated in the GSA Service Agreement as the applicable bill credit, the Monthly Bill Credit shall be determined by multiplying the applicable Hourly Marginal Avoided Cost Bill Credit times the energy produced by the GSA Facility in the applicable hours in the prior billing month.

2. GSA Administrative Charge – the applicable monthly administrative charge shall be $375 per Customer Account, plus an additional $50 charge per additional account billed.

GENERAL PROVISIONS

For the avoidance of doubt, the Company (1) shall not be liable to the Customer in the event that a GSA Facility fails to produce energy as required under a GSA PPA or as otherwise consistent with the Customer's expectations and (2) shall have no obligation under any circumstance to supply RECs to the Customer. The GSA Facility shall be a system resource and energy produced and delivered under the GSA PPA shall not be directly delivered to the GSA Customer.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 147

OFFICIAL COPY

Sep 26 2023

RIDER RDM
RESIDENTIAL DECOUPLING MECHANISM

APPLICABILITY

This Rider is applicable to all service supplied under the Company's residential rate schedules and applicable riders. The approved rate set forth below is not included in the Rate provision of the Company's rate schedules and therefore shall be applied to the Customer's bill as an adjustment.

RESIDENTIAL DECOUPLING MECHANISM

The establishment of the Residential Decoupling Mechanism was proposed in Docket No. E-7, Sub 1276 in compliance with North Carolina Utilities Commission ("Commission") Rule R1-17B. The rate will be adjusted at least annually to true-up the difference between actual revenue collected from residential customers and the Commission authorized revenue. The Company will file its proposed adjustment to the Rider within 60 days of the end of each Rate Year.

MONTHLY RATE

The approved incremental or decremental rate for residential rate schedules, including revenue-related taxes and regulatory fees, is 0.0000¢ per kilowatt-hour.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 148

OFFICIAL COPY

Sep 26 2023

RIDER ESM
EARNINGS SHARING MECHANISM

APPLICABILITY

This Rider is applicable to all service supplied under the Company's rate schedules. For Schedule HP this Rider is only applicable to the Customer Baseline Load. The approved rate set forth below is not included in the Rate provision of the Company's rate schedules and therefore shall be applied to the Customer's bill as an adjustment.

EARNINGS SHARING MECHANISM

The establishment of the Earnings Sharing Mechanism was proposed in Docket No. E-7, Sub 1276 in compliance with North Carolina Utilities Commission ("Commission") Rule R1-17B. The rate will be adjusted at least annually based on calculation of excess earnings. Customers will be refunded excess earnings through the Rider if the Company's adjusted earnings exceed the Commission authorized rate of return on equity plus 50 basis points. The Company will file its proposed adjustment to the Rider within 60 days of the end of each Rate Year.

MONTHLY RATE

The approved decremental rate, including revenue-related taxes and regulatory fees, is 0.0000¢ per kilowatt-hour.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 149

OFFICIAL COPY

Sep 26 2023

RIDER PIM
PERFORMANCE INCENTIVE MECHANISM

APPLICABILITY

This Rider is applicable to all service supplied under the Company's rate schedules. For Schedule HP, this Rider is only applicable to the Customer Baseline Load. The approved rate set forth below is not included in the Monthly Rate provision of the Company's rate schedules and therefore shall be applied to the Customer's bill as an adjustment.

PERFORMANCE INCENTIVE MECHANISM

The establishment of the Performance Incentive Mechanism was proposed in Docket No. E-7 Sub 1276 in compliance with North Carolina Utilities Commission ("Commission") Rule R1-17B. The rate will be adjusted at least annually based on applicable incentives and/or penalties derived from the results of performance-based metrics established by the Commission for each Rate Year of the Company's Multiyear Rate Plan. The Company will file its calculations of all incremental and decremental billing factors within 60 days of the end of each Rate Year.

MONTHLY RATE

The approved incremental or decremental rate, including revenue-related taxes and regulatory fees, is 0.0000¢ per kilowatt-hour.

OFFICIAL COPY

Sep 26 2023

RIDER ED
ECONOMIC DEVELOPMENT

AVAILABILITY

Available, only at Company's option, to nonresidential establishments receiving service under Schedule LGS, I or OPT-V provided that the establishment is not classified as Retail Trade or Public Administration by the North American Industry Classification System (NAICS).

This Rider is available for load associated with initial permanent service to new establishments, expansion of existing establishments, or new customers in existing establishments who make application to Company for service under this Rider, and Company approves such application.

This Rider is not available to a new customer which results from a change in ownership of an existing establishment. However, if a change in ownership occurs after Customer contracts for service under this Rider, the successor Customer may be allowed to fulfill the balance of the contract under this Rider and continue the schedule of credits outlined below. This Rider is also not available for resumption of service following interruptions such as equipment failure, temporary plant shutdown, strike, or economic conditions. This Rider is also not available for: (1) load shifted from one establishment or delivery on Company's system to another on Company's system; (2) short-term, construction, or temporary service; or (3) electrical load that results from the shutdown or reduction of generation facilities.

DEFINITIONS

New Load: New Load is that which is added to Company's system by a new establishment. For existing establishments, New Load is the net incremental load above that which existed prior to approval for service under this Rider. The New Load shall exclude any curtailable, back-up, or standby service.

New Load for existing customers considering relocating outside of the Company's service territory may qualify for an Economic Development Bill Factor Reduction. Existing customers must reinvest in existing establishments and meet the capital investment and employment requirements in the Qualifying Criteria in item B below as well as attest to and provide documentation of the consideration to relocate outside of the Company's service territory within the Qualifying Criteria in item C below. New Load shall exclude reductions associated with the removal of equipment and/or processes by existing customers.

Delivery Date: The Delivery Date is the first date service is supplied under the contract.

Operational Date: The Operational Date shall be the date the facility is fully operational as declared by the Customer, but shall be no more than 36 months after the Delivery Date.

QUALIFYING CRITERIA

To participate in this Rider, the Customer must meet the following criteria:

A. The minimum qualifying New Load must have a minimum load factor of 40% at a single point of delivery, must be at least 1,000 kW at the Customer's single premise, and the Customer must have applied for and received economic assistance from the state or local government or other public agency before the Company will approve a Service Agreement under this Rider, except New Load for existing customers considering relocating outside of the Company's service territory.

B. The new or expanding business must also meet at least one of the following two requirements at the project location:

   1) Customer employs an additional workforce in Company's service area of a minimum of 50 full time equivalent (FTE) employees. Employment additions must occur following Company's approval for service under this Rider.

   2) Customer's New Load must result in capital investment of $500,000 per MW and two (2) new FTE employees per MW by Customer in Company's service area. The capital investment must occur following Company's approval for service under this Rider.

C. Customer must provide written documentation attesting that the availability of this Rider is a significant factor in the Customer's location/expansion decision.

OFFICIAL COPY

Sep 26 2023

RIDER ED
ECONOMIC DEVELOPMENT

D. The two (2) new FTE employees in item B.2) and the minimum load factor of 40% requirement in item A are waived for electric vehicle (EV) fleet customers, where 80% of expected energy usage is related to EV charging. Additionally, the minimum qualifying New Load requirement of 1,000 kW in item A is lowered to 500 kW for EV fleet customers. An EV fleet Customer who receives a monthly bill discount under this Rider is not eligible to receive any other EV-related incentives offered by the Company.

GENERAL PROVISIONS

1. Customer must make an application to Company for service under this Rider, and Company must approve such application before Customer may receive service hereunder. The application must include a description of the amount of and nature of the New Load and the basis on which Customer requests qualification shown in the Qualifying Criteria above. In the application, Customer must affirm that availability of this Rider was a factor in Customer's decision to locate the New Load on Company's system. The application shall also specify the total number of FTE employees employed by Customer in all establishments receiving electric service from Company's system, at the time of application for this Rider and on the Operational Date.

2. For Customers contracting under this Rider due to expansion, Company may install metering equipment necessary to measure the New Load to be billed under this Rider separate from the existing load billed under the applicable rate schedule. Company reserves the right to make the determination of whether such installation will be separately metered or sub-metered. If in Company's opinion, the nature of the expansion is such that either separate metering or submetering is impractical or economically infeasible, Company will determine, based on historical usage, what portion of Customer's load, if any, qualifies as New Load eligible for this Rider.

3. All terms and conditions of the Customer's applicable rate schedule shall apply to the service supplied to Customer, except as modified by this Rider.

RATE PER MONTH

All charges shall be those set forth in the Customer's applicable rate schedule with the resulting monthly bill adjusted by the Economic Development Bill Reduction Factor, plus any Extra Facilities Charges as specified in Company's Service Regulations or as otherwise agreed.

ECONOMIC DEVELOPMENT BILL REDUCTION FACTOR

Beginning with the effective date as declared by the Customer and in compliance with this Rider, a reduction in the monthly bill will be applied up to a 75% kW Demand Charge for the qualifying New Load under this Rider.

The percentage discount to be applied to the Customer's monthly bills will be determined in advance, on or prior to the date of execution of a Service Agreement, and will be developed on an individual customer basis given the evaluation of the following criteria as to the New Load:

1. Peak monthly demand;
2. Average monthly load factor;
3. The Company's incremental costs to serve;
4. Number of new FTE employees;
5. Economic multiplier; and
6. Total new capital investment of the Customer.

Item 3 will not take into account the costs for additional facilities that are being covered in full by the Customer through the terms of the Service Agreement or another agreement between the Company and the Customer.

TERM OF SERVICE

The Customer may request the Operational Date as an effective date of this Rider which is no more than 36 months after the Delivery Date. The minimum term of the Service Agreement shall be twice the number of years for which the Customer is receiving a credit

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 240

RIDER ED
ECONOMIC DEVELOPMENT

following the Customer's effective date, with the bill reductions being available for a maximum period of 10 years.

PENALTY FOR NON-COMPLIANCE WITH QUALIIFYING CRITERIA OR TERM OF SERVICE

If at any time during the term of the Rider agreement the Customer violates the terms and conditions of the Rider or the Service Agreement, the Company may discontinue the discount provided for under this Rider and bill the Customer based on their applicable rate schedule. If the Customer terminates service prior to the end of the Agreement period or fails to meet the Qualifying Criteria agreed to for the term of the Agreement, this will constitute a violation of the terms and conditions of the Rider and Agreement.

Should service under this Rider be discontinued by the Company or Customer for said violation, the Customer shall be required to repay to the Company the amount of the cumulative discounts received under this Rider in accordance with the following schedule.

Number of months beginning with and following the effective date declaration and ending with the date of violation	Required percentage of cumulative economic development bill discounts that must be repaid
Month 1 to end of credits	100%
First 12 months after credits cease	80%
Months 13-24 after credits cease	60%
Months 25-36 after credits cease	40%
Months 36-47 after credits cease	20%
Month 48 to term of contract	10%

If a change in ownership occurs after execution of the Service Agreement, the successor Customer may, in the Company's discretion, be allowed to fulfill the balance of the Service Agreement and participate in this Rider.

OFFICIAL COPY

Sep 26 2023

RIDER SRR
SOLAR REBATE RIDER

AVAILABILITY

This Rider is available to a customer installing and operating a solar photovoltaic (PV) electric generating system who meets the eligibility requirements of and participates in net metering Rider NM or NSC. The system may either be owned by the Customer or by a lessor and leased to the Customer. Customer may not simultaneously receive service under this Rider and Company's Purchased Power Schedule PP or participate as a generation resource in NC GreenPower or other voluntary renewable resource power market.

New participation under the Rider shall be limited to no greater than 10,000 kilowatts (kW) per year of installed capacity starting in January 1, 2018 and ending December 31, 2022. Non-residential installations shall not exceed 5,000 kW in a calendar year. 2,500 kW of the capacity for non-residential installations shall be set aside for use by nonprofit organizations with 50 kW of the 2,500 kW set aside for use by the NC GreenPower Solar Schools Pilot or a similar program. A nonprofit organization is defined as an organization or association recognized by the Department of Revenue as tax exempt pursuant to G.S. 105-130.11(a) or any bona fide branch, chapter or affiliate of that organization. If in any application period a portion of the incentives goes unsubscribed, the Company may roll excess incentives over into a subsequent application period's allocation. Any unsubscribed capacity, regardless of any set aside requirement, available at January 1, 2023 shall be available to any customer meeting the rider qualifications.

For years 2021 and 2022, applications will be accepted within six-month application periods which shall open on the first Wednesday in January and July. For 2021, the application periods shall open on January 6, 2021 and July 7, 2021. For 2022, the application periods shall open on January 5, 2022 and July 6, 2022. For 2021 and 2022, application periods shall end on the last day of the sixth month: June 30 or December 31. Available annual capacity will be allocated evenly (50%) between the bi-annual application periods.

Applications will be accepted and selected through a lottery system beginning with the July 2021 application period. Under the lottery system, the Company will accept applications for one week, beginning at 9:00 am on the first day of the application period and ending at 9:00 am on the eighth day. During this period the Company will review submissions for eligibility and work with customers to resolve issues with their application. Eligible applications will be entered into the lottery. If there is any doubt as to an application's eligibility, it would be placed in the lottery, but the outstanding issue with the application will be resolved before communicating rebate status after the lottery. Applications will be assigned a place in line at random using an analytical software. Applications will then receive a rebate allocation or be placed on a waiting list based on capacity allocation rules of the Program. The Company will send emails to customers informing them of their placement and post the waitlist to the website no later than three weeks after the opening date of the application period. If the participation limit for a specific customer class is not reached in the lottery allocation, the Company will reopen the application process for any group that has capacity available.

Customers will be notified on the Company's website if the bi-annual participation limits are achieved. The website shall be updated weekly until such time as residential and non-residential participation limits have been reached; after which the website shall be updated monthly. All waitlisted applications will be rejected and cancelled at the end of each application period. Applications may be submitted no earlier than the first day of the application period, and are applicable to both new installations and installations completed within 90 days of the application period. Due to the modification of the January 2021 enrollment opening date, waitlisted residential and commercial systems installed between October 6, 2020, and January 6, 2021, shall be eligible to submit an application for the July 2021 program enrollment. This Rider shall be available to new applicants until the later of December 31, 2022 or when the 10,000 kW annual capacity limit is achieved for all program years.

APPLICATION REQUIREMENTS

Customer must complete and submit an application on the Company's website requesting service under the Program in accordance with the lottery system rules outlined in the Availability section. Submission of such an application, however, does not guarantee a rebate; rebates will be allocated randomly within the pool of eligible applications per the lottery system and capacity allocation rules of the Program. The application will state the nameplate capacity in alternating current (AC) of the solar PV electric generating system for which the rebate is sought.

OFFICIAL COPY
Sep 26 2023

RIDER SRR
SOLAR REBATE RIDER

The Customer may apply prior to installation of the generating system; in which case a written guarantee will be provided reserving the rebate. The Customer must complete the installation by the applicable deadline below.

For the January 2021 application window: Residential customers must complete installation by December 31, 2021. Non-residential and non-profit customers with a project under 20 kW must complete installation no later than 365 days from the date the rebate reservation was obtained. All other non-residential and non-profit customers must complete installation no later than 365 days from the date of an executed interconnection agreement by the Company.

Beginning with the July 2021 application window: Residential and non-residential customers with a project under 20 kW who obtain a rebate reservation in the July application window must complete installation by December 15 of the same year. Residential and non-residential customers with a project under 20 kW who obtain a rebate reservation in the January application window must complete installation by June 15 of the same year. Non-profit customers with a project under 20 kW must complete installation no later than 365 days from the date the rebate reservation was obtained. All other non-residential and non-profit customers must complete installation no later than 365 days from the date the rebate reservation was obtained or the date of an executed interconnection agreement by the Company, whichever is later.

If a residential customer receives a rebate reservation but does not complete installation by the deadline (June 15 for the January application window and December 15 for the July application window), then the customer's application and rebate eligibility will be canceled, and the resulting unused rebate capacity will be reallocated to customers on the waitlist. Waitlisted customers who are allocated unused capacity pursuant to this provision must complete installation by the deadline of the following application period.

To receive a rebate payment, the Customer must first submit a Certificate of Completion indicating that the installation is complete, and the Company must confirm that billing under an eligible rate schedule and Rider NM or NSC has commenced. The installation shall be subject to inspection and verification at any time, upon request by Company.

SOLAR REBATE PAYMENT

The Customer shall receive a one-time Solar Rebate Payment based upon the AC nameplate rating of Customer's solar PV electric generating system. The incentive shall be limited not to exceed 10 kW_{AC} for residential solar installations and 100 kW_{AC} for non-residential solar installations. Pursuant to Net Metering Rider NM, the Customer's total installed capacity shall not be limited by the maximum rebate capacities.

Non-residential Customer Solar Rebate Payment: $0.30 per watt[1]
Residential Customer Solar Rebate Payment: $0.40 per watt[1]

Non-Profit customers shall receive a one-time Solar Rebate Payment of $0.75 per watt times the AC nameplate rating of the Customer's solar PV electric generating system.

[1] Payments effective beginning with the July 2021 program enrollment

RENEWABLE ENERGY CERTIFICATES (GREEN TAGS)

For any customer receiving service under a non-time of use demand rate schedule, any renewable energy credits (RECs) shall be retained by the Company.

CONTRACT PERIOD

The Contract Period for service under this Rider shall be ten (10) years from the date of initial participation. If the system is removed, rendered inoperable, the agreement for electric service is terminated, or electric service is discontinued under rate schedule as prescribed in availability section of this Rider prior to 120 months, an early termination charge may apply unless the termination is for good cause. Good cause includes any act or circumstance, resulting in early termination, which is beyond the control of the Customer.

If within ninety (90) days of electric service termination a new customer takes over the site and elects electric service and assumes

OFFICIAL COPY

Sep 26 2023

RIDER SRR
SOLAR REBATE RIDER

the Customer's obligations under this Rider, including but not limited to continued electric service under an eligible rate schedule and Rider NM or NSC, the termination charges will be waived.

An early termination charge shall equal to one minus the number of months since initial participation divided by one hundred and twenty (120) multiplied by the rebate payment amount.

Early Termination Calculation: (1 - (# of Participating Months / 120)) * Rebate Payment Amount

Company reserves the right to terminate service under this Rider at any time upon written notice to Customer in the event that Customer intentionally violates any of the terms or conditions of this Rider, or operates the generating system in a manner which is detrimental to Company and/or its customers and fails to correct such operation. Company may also terminate service under this Rider and request repayment of Solar Rebate Payment if Customer intentionally misstates or misrepresents the operating capacity or operating characteristics of the solar PV electric generating system during the Contract Period.

METERING REQUIREMENTS

The Customer grants the Company the right, at the Company's cost, to install, operate, and monitor special equipment to measure Customer's load, generating system output, or any part thereof and to obtain any other data necessary to determine the operating characteristics and effects of the installation. Customer must provide access and designate a location on the load side of the Company's billing meter for Company to furnish, install, own and maintain metering with capability to record 100% of Customer's generator output. All metering shall be at a location that is readily accessible by Company.

GENERAL

Customer shall comply with all applicable standards and requirements for interconnecting generation with electric power systems. Company agrees to comply with all state registration and reporting requirements associated with RECs while Customer receives service under this Rider. The terms, conditions and provision of this Rider are subject to change upon approval by the state regulatory commission.

Company decisions may be appealed by the Customer contacting or filing an informal complaint with the Public Staff of the North Carolina Utilities Commission (Public Staff) or by filing a formal complaint with the North Carolina Utilities Commission. The Public Staff may be contacted by e-mail at Consumer.Services@psncuc nc.gov or by telephone at 866-380-9816.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Original Leaf No. 175

OFFICIAL COPY

Sep 26 2023

CUSTOMER ASSISTANCE PROGRAM (CAP) CREDIT

APPLICABILITY

The monthly bill credit shown below will be available to all residential service schedules for customers who are approved for either Low Income Energy Assistance Program (LIEAP) or Crisis Intervention Program (CIP) administered by the North Carolina Department of Health and Human Services (DHHS). The Company will receive a list of recipients from DHHS and automatically apply the credit to the customer's bill. The customer will receive the credit for 12 billing months.

MONTHLY RATE

The applicable monthly bill credit is $42. The monthly bill credit cannot reduce a customer's bill below the Basic Customer Charge.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifth Revised Leaf No. 320
Superseding NC Fourth Revised Leaf No. 320

REMOTE METER READING AND USAGE DATA SERVICE

AVAILABILITY

Remote meter reading and usage data service are available for establishments receiving service on a Duke Energy Carolinas retail non-residential rate schedule. This service is available for purposes including, but not limited to summary billing, inaccessible meters, and customer requested usage data.

RATE

A. Remote Meter Reading — $25.00 per meter per month*
$20.00 per communication line per month*

The Company will provide a metering device that will allow remote meter reading. For customers served under this program prior to March 17, 2009 who provide a dedicated telephone line, the communication line charge above will not apply until such time as a meter change is required. When the meter is changed, the Company will provide the communication line at the rate set forth above and the customer may discontinue the dedicated telephone line.

B. Remote Meter Reading and Usage Data Services

The Company will provide a communication line and metering device that will allow remote meter reading, and will provide usage data to the Customer, using internet based technology, or other methods as available and utilized at the Company's discretion, under one of the following options based on frequency of the data provided.

1. Next Business Day Data — $45.00 per meter per month for the meter and communication line*, plus
$10.00 per month per meter for data

Next Business Day Data is currently provided through the Energy Profiler Online (EPO) program. EPO is an Internet-based program permitting Customer access to historic meter data from any Internet capable location. Meter data is updated each business day and is available through the previous day. Access to meter data is both identification/name and password restricted.

2. Real-Time Data

Monthly Service Payment = Levelized Capital Cost + Expenses

Where:

Levelized Capital Cost is equal to the present value of all estimated capital related cash flows for a period corresponding to the depreciable life of the equipment, adjusted to a pre-tax amount and converted to a uniform monthly payment. The estimated capital cash flows shall include installed cost of equipment, salvage value, contingency allowances, property taxes, adjustment to reflect supporting investment of general plant nature, and income tax impacts.

Expenses shall equal the present value of estimated expenses associated with the support and maintenance of the equipment, adjusted to a pre-tax amount and converted to a uniform monthly payment for a period corresponding to the depreciable life of the equipment. The estimated expenses shall include administrative and general expenses, expenses for labor and materials related to operations and maintenance, third party expenses for operations and maintenance, warranties, insurance, annual costs associated with energy information storage and retrieval, other costs related to the operation and support of the equipment installation and income tax impacts.

The after-tax cost of capital from the Company's most recent general rate case will be used to convert present values to uniform monthly payments.

*Charges for remote metering and a communication line will not apply under this program when the Company, at its own option, has determined that remote metering facilities are necessary for the Company's own use. These charges, as well as charges for data if applicable, will not apply under this program when provided under another rate schedule or rider.

OFFICIAL COPY

Sep 26 2023

REMOTE METER READING AND USAGE DATA SERVICE

PAYMENT

Bills for this service are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT

The original term of this contract shall be one (1) year; however, the Company may offer or require an agreement under Option B.2. with an original term of up to 10 years. All contracts under this program shall continue thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter, by giving at least 30 days previous notice of such termination in writing. In the event of early termination of a contract under this program, the Customer will be required to pay the Company a termination charge which shall be the net present value of monthly charge, less the monthly ongoing costs for the communications, for the remainder of the term of contract. However, if any successor customer has requested service at the premises under this program prior to the effective date of the termination, the termination charge will be waived or reduced based on the contract term of the successor customer.

OFFICIAL COPY

Sep 26 2023

DISTRIBUTION LINE EXTENSION PLAN

I. APPLICABILITY

This Plan is applicable to distribution line extensions to all retail service, including the conversion of overhead distribution facilities to underground distribution facilities.

At the determination of the Company, in those areas where it is physically or economically infeasible, or impractical, to place facilities above-ground due to structural or geographical congestion or load density, the Company may place its facilities underground at its own option and expense.

II. DEFINITIONS

"Company" means Duke Energy Carolinas, LLC or any agent authorized to act on behalf of Duke Energy Carolinas, LLC.

"Customer" means the builder, developer, contractor, property owner or other entity requesting electrical facilities to be installed under this Plan.

"Distribution" refers to electrical facilities typically operating at 24 kV or below. In limited areas, the Company's Distribution system operates at 34 kV.

"Overhead facilities" means an electrical distribution system having all components installed above ground level.

"Underground facilities" means an electrical distribution system having some or all components installed below ground level.

"Standard design" means the most cost effective and reliable design using the Company's current engineering design and construction practices which will meet the electrical service requirements of the Customer. The standard design which is most cost effective may be facilities installed either overhead or underground.

"Permanent service" refers to on-going year-round electric service. For purposes of this Plan, the following types of customers or structures shall not be considered permanent service customers: temporary service customers, construction service customers, nonpermanent manufactured homes, and structures designed or used to provide mobility and/or nonpermanent living accommodations (including, but not limited to, boats, campers, motor homes, and recreational vehicles).

"Nonpermanent manufactured home" is a manufactured home that does not meet the following requirements:

1. It must be attached to a permanent foundation;
2. It must be connected to permanent water and sewer facilities;
3. It must be labeled as a structure which can be used as a permanent dwelling; and
4. The owner/occupant must either own the land on which the structure is installed or must have a recorded lease of at least 5 years' duration.

"Temporary service" refers to electric service to any residential or nonresidential customer that will not result in permanent electric service and the Company's facilities installed to serve the Customer shall not be needed to serve other customers in the near future. Customers requesting electric service to vehicles or structures designed or used to provide mobility and/or nonpermanent living accommodations (including, but not limited to, boats, campers, motor homes, and recreational vehicles), rock crushers, asphalt plants, carnivals, fairs and other nonpermanent installations shall also be classified as temporary service customers.

"Secondary/service facilities" refers to equipment necessary to provide distribution secondary voltage from the low side of the Company's transformer to the point of delivery. Secondary facilities refers to equipment installed off-site or up to the last structure on-site, and service facilities refers to equipment installed on-site or from the last structure to the point of delivery.

"Construction cost" is the Company's estimated installed cost of constructing all necessary facilities to the point(s) of delivery, including but not limited to the cost of materials, labor, transportation, stores, tax, engineering, overheads and general expenses, exclusive of any abnormal installation costs.

When applied to temporary service and electric service to nonpermanent manufactured homes, the construction cost shall also include the removal costs minus the salvage value of the facilities. When it is necessary to remove, relocate, or rearrange existing Company facilities, the construction cost shall also include the removal cost of existing Company facilities, plus the rearrangement cost of existing Company facilities, minus the salvage value of any existing Company facilities being removed.

OFFICIAL COPY

Sep 26 2023

DISTRIBUTION LINE EXTENSION PLAN

"Contribution in aid of construction" ("CIAC") is a charge for the installed cost of facilities in excess of those provided without charge, based on standard design and paid to the Company by the Customer. Contributions in aid of construction may include the income tax effects to the Company of such contributions and be subject to applicable state sales tax.

"Normal point of delivery" for overhead residential service is on the outside wall of the end of the building nearest to the source of the Company's facilities entering the property where the Company's conductors meet the Customer's conductors at the drip loop before the weatherhead. The normal point of delivery for all other customers shall be at a location designated by the Company.

"Real estate development" means a planned residential development consisting of four or more contiguous lots or service to a commercial or industrial development, manufactured home park, apartment complex, planned area development, or other similar type development, properly recorded with the appropriate county registry, where permanent electric service will be provided to four or more customers.

"Idle facilities" are those facilities for which installation is requested, but in the Company's judgment are associated with a real estate development that is not likely to be occupied within a reasonable period of time.

III. COST ESTIMATES

For the purpose of determining the amount of any charges required from the Customer under the provisions of this Plan, estimates of the cost of the Company's facilities shall be made in accordance with the Company's current engineering and construction practices and shall be based on the appropriate conductor and transformer capacity required for the electrical load specified by the Customer.

If a detailed engineering study is necessary to determine the estimated cost of the requested installation, the Customer requesting the study shall pay the estimated cost to perform the detailed engineering study prior to the commencement of the study.

- If the Customer accepts and implements the results of the study, the cost of the study will be credited against any charge required from the Customer under this plan or refunded to the extent that a contribution in aid of construction is not required.
- If the Customer does not agree to proceed with the installation of facilities and pay any applicable contribution in aid of construction within one year of the date of the study, the cost paid for the study shall not be refunded to the Customer.

IV. EXTENSIONS FOR NEW INSTALLATIONS RECEIVING PERMANENT SERVICE

Facilities of a standard design will be provided pursuant to the Company's Service Regulations. When the investment required to provide the requested facilities does not produce sufficient revenue to support the investment, the Company will require a contribution in aid of construction if applicable as follows:

1. RESIDENTIAL SECONDARY/SERVICE FACILITIES EXTENSIONS

Residential secondary/service facilities of a standard design provided for service under a residential rate schedule:

Overhead secondary/service facilities to the normal point of delivery.	No Charge
Underground secondary/service facilities to the normal point of delivery service from an overhead and/or underground source.	No Charge

2. NONRESIDENTIAL SERVICE SECONDARY/SERVICE FACILITIES EXTENSIONS

Nonresidential secondary/service facilities of a standard design provided for service under a nonresidential rate schedule:

For the first 500 feet of overhead and/or underground secondary/service facilities to the normal point of delivery served from an overhead or underground source.	No Charge

OFFICIAL COPY

Sep 26 2023

DISTRIBUTION LINE EXTENSION PLAN

For all over 500 feet of overhead and/or underground secondary/service facilities to the normal point of delivery served from an underground source.	Installed cost of the requested facilities in excess of 500 feet less applicable revenue credits* (See Section VIII. Revenue Credits)

3. PRIMARY FACILITIES EXTENSIONS

Primary facilities extensions of a standard design:

Primary facilities	Installed cost of the requested facilities less applicable revenue credits* (See Section VIII. Revenue Credits)

*A contribution in aid of construction will not be charged when, in the Company's sole determination, the resulting charge is less than the administrative cost of billing and collection.

4. ADDITIONAL CHARGES

In addition to applicable costs under Section IV. 1, 2 or 3 above, if the Customer requests a design other than the Company's standard design, or if the Owner requests a delivery point other than the normal point of delivery, any resulting additional expenses shall be paid to the Company by the Customer. Customers requesting either a standard or a nonstandard design may also be subject to additional charges based on circumstances set forth under Section IX. General Provisions.

5. NONRESIDENTIAL DEVELOPMENTS AND PLANNED AREA DEVELOPMENTS

At the developer's request, the Company will construct, own, operate, and maintain overhead and/or underground distribution facilities to provide a basic distribution system within the Real Estate Development in which it is contemplated that individual lots will be sold or leased. The developer requesting the basic distribution system shall pay any amount by which the Construction Cost exceeds the estimated Revenue Credit (see Section VIII.) from the development, plus any estimated abnormal installation costs as determined by the Company.

V. EXTENSIONS FOR NEW INSTALLATIONS RECEIVING TEMPORARY SERVICE

For the purpose of this Plan, the following types of customers or structures shall not be considered permanent service customers: temporary service customers, nonpermanent manufactured homes, and structures designed or used to provide mobility and/or nonpermanent living accommodations (including, but not limited to, boats, campers, motor homes, and recreational vehicles).

A Customer, whose electric service needs will not result in permanent electric service and the Company's facilities installed to serve the Customer shall not be needed to serve other customers in the near future, shall pay for the actual cost of connection and disconnection. The cost shall include the total installed cost, plus removal cost, less salvage value of the facilities removed.

VI. CHANGES TO THE SERVICE INVOLVING UPGRADES, RELOCATIONS OR REMOVAL OF SERVICE

With respect to any service, after a service installation has been made, it may be changed by the Company upon request of the Customer. The Customer must pay the cost of the change unless anticipated additional revenue resulting from new or increased load made possible by the change in the service is sufficient to support the investment to change the facilities. When the requested change results in incremental revenue to the Company, the cost of the change will be reduced by the expected additional revenue over the initial three (3) years following the change for distribution facilities. The change will not be made where it will interfere with or jeopardize the Company's service either to the Customer desiring the change or to any other customer or customers. A service change includes, but is not limited to, an upgrade in the facilities required to serve the customer, a change in the voltage or the delivery point, any relocation of facilities, or removal of facilities. Changes involving the conversion of overhead facilities to underground facilities are described in Section VII. Conversion to Underground. The Customer will not be charged (a) for temporary disconnection and later reconnection of a service line during normal business hours to allow a tree to be cut or to allow electrical work; (b) for removal of a service line during normal business hours; or (c) to move a service line from one meter base to another essentially in the same location. Additionally, the customer will not be charged for removal of facilities on the customer's premises that are not currently used and useful, where there is no expectation that the facilities will be used and useful in the foreseeable future, so long as (a) the original term of the contract has been

OFFICIAL COPY
Sep 26 2023

DISTRIBUTION LINE EXTENSION PLAN

fulfilled, and (b) removal of the facilities would not result in loss of service rights to another utility.

VII. CONVERSION TO UNDERGROUND

The Company may, at its option, replace an existing overhead distribution system with an underground system in an existing residential development or other area under the following terms and conditions:

1. The Company shall place facilities underground by an agreement with the requesting persons which provides for payment of a nonrefundable, contribution-in-aid-of-construction as follows:
   a. When the existing overhead distribution system is not adequate to supply the customer's load due to added electrical load, the contribution in aid of construction shall be equal to the cost difference between comparable overhead and underground facilities.
   b. When the existing overhead distribution system is adequate to supply the customer's load, the contribution in aid of construction shall be equal to the cost of comparable underground facilities, less any salvage value of the overhead system.
2. Preliminary engineering studies are necessary to determine the approximate costs of replacing overhead with underground facilities under the provisions set forth in Section III. Cost Estimates.
3. The Company need not replace existing overhead systems with underground facilities, except individual services from pole to residence, unless at least one block or 1,000 feet of front lot line is involved, whichever is less.
4. All customers served directly from the specific section of line or in the area to be replaced with underground facilities shall agree to the conditions outlined for replacement of overhead facilities.
5. Customers shall arrange the wiring of their structures to receive underground service at meter locations which allow unimpeded installation of the underground service facilities.
6. Outdoor lighting service and conversion to underground facilities shall be in accordance with the Company's Outdoor Lighting Service Regulations and outdoor lighting rate schedules.

VIII. REVENUE CREDITS

A credit based on expected revenue as outlined below will be applied to any required contribution in aid of construction under Sections IV. and VII. Revenue credits shall not apply to nonstandard design or any other charges set forth under Section IX. General Provisions.

For initial service to an individually metered single family residence or permanently installed manufactured home, under Section IV.	The Contribution in Aid of Construction, if any, shall be the installed cost less the expected revenue over the initial five (5) years following installation, but not less than zero.
For initial service to permanent multi-family or other residential developments under Section IV.	The Contribution in Aid of Construction, if any, cost shall be the installed cost less the expected revenue over the initial three (3) years following installation, but not less than zero
For initial service to all nonresidential customers under Section IV.	The Contribution in Aid of Construction, if any, shall be the installed cost less the expected revenue over the initial three (3) years following installation, but not less than zero.

IX. GENERAL PROVISIONS

1. Prior to the installation of overhead or underground facilities, the customer must provide satisfactory right of way for the installation of service pursuant to the Company's Service Regulations.
2. In areas established as underground served by the Company due to the presence of existing or proposed underground facilities, or where there are other requirements placed on the Company's installation (e.g. municipal ordinances or recorded

OFFICIAL COPY
Sep 26 2023

DISTRIBUTION LINE EXTENSION PLAN

development restrictions), the Customer must agree to receive underground service and, payment for such costs under this Plan shall be made to the Company by the Customer.

3. Facilities associated with an underground distribution system, other than the conductors, may be installed above or below ground level as determined solely by the Company in accord with the current construction design practices of the Company.

4. Prior to the installation of the underground distribution system by the Company, the property boundaries and the final grade levels of the electrical facilities routes shall be established by the Customer. If (a) the property boundaries or the final grade levels of the electrical facilities routes change after the installation of facilities has begun, or (b) the installation of electrical facilities is required by the Customer before property boundaries or final grade levels are established, or (c) conduit, where required is improperly installed, and therefore any of these conditions results in additional expenses to the Company, payment for such costs shall be paid to the Company by the Customer.

5. The Customer shall coordinate the site development process with the installation of underground electrical facilities to permit unimpeded installation of underground facilities at proper depths and before streets, curbs, or other obstructions are installed, and to eliminate dig-ins to the underground electrical facilities after installation. The Customer shall install conduit as specified by the Company to meet design standards and specifications. If streets, curbs or other obstacles are present prior to installation of underground facilities, or conduit is improperly installed and therefore any of these conditions result in additional expenses to the Company, payment for such costs shall be paid to the Company by the Customer.

6. The Customer shall remove all obstructions from the route along which the Company's facilities are to be installed and provide notification to the Company when the site is ready for the installation of primary and/or secondary/service facilities. If Company personnel arrive at the site prepared to begin or continue installation and the site is not ready, payment of any additional costs shall be paid to the Company by the Customer.

7. If existing sidewalks, or other man-made obstructions, result in additional costs, payment for such costs shall be made the Company by the Customer by the owner.

8. Actual costs brought about in connection with the compliance of special requirements, if any, of municipalities, State and Federal agencies or departments or other agencies shall be paid to the Company by the Customer.

9. The Company will make, or adjust, charges to the Customer to collect the actual additional costs to the Company due to adverse conditions, including but not limited to the following: (a) the composition of the land where the facilities are to be installed, (b) the property is encumbered in any way such that standard construction equipment cannot be used (c) special equipment and materials are needed for stream crossing structures or concrete structures; (d) dynamite or other rock breaking measures are required, or (e) if abrupt changes in final grade levels exceed a slope ratio of one (1) when measured within three (3) feet of the trench.

10. Prior to the installation of facilities, payments required from the Customer under the provisions of this Plan shall be paid in full or under payment terms acceptable to the Company.

11. The Company shall exercise care in the utilization of its underground equipment during construction, but the Customer shall be responsible for the protection of shrubs, trees, and grass sod, or any other foliage or property located within the right of way. The Customer shall be responsible for all such items and for reseeding or resodding the trench cover. The Customer shall provide continuing and unimpeded access to the Company for the operation, maintenance and replacement of the Company facilities. Shrubs, trees, or any other obstacle which would hinder the access of the Company at any time shall not be placed within ten feet of transformer or cabinet openings which would hinder the access of the Company at any time.

12. The Company shall not be responsible for repair or replacement of underground facilities owned by others that are damaged during installation of the Company facilities if such facilities were not properly identified and marked by the Customer prior to construction.

13. Underground conductors to provide standard service to Company-owned outdoor lighting will be furnished under the applicable rate schedule on file with and approved by the Commission; however, the Customer shall pay the Company for any additional costs as set forth in the General Provisions of this Plan.

14. The Company will provide and coordinate underground service facilities with other requested facilities which are supplied

OFFICIAL COPY
Sep 26 2023

DISTRIBUTION LINE EXTENSION PLAN

under the Extra Facilities provision of the Company's Service Regulations.

15. The Company may, in its discretion, limit installation of the Company's electrical facilities which serve a real estate development to that area which, in the Company's opinion, is likely to be occupied within a reasonable period of time, in order to avoid excess investment in idle facilities. The Customer may request installation of facilities in the additional area(s) by paying the applicable cost under this Plan for the development as a whole plus an Idle Facilities Deposit. In lieu of such deposit and solely at the Company's option, an approved alternative financial instrument may be used as security. The Idle Facilities Deposit will be based on the cost to install facilities for the area(s) deemed not likely to be occupied in a reasonable time less applicable costs under this Plan. Idle Facilities Deposits will be reviewed annually by the Company and will be refunded, based on the pro-rata portion of the Company's idle facilities needed to serve Customer during the preceding 12 months. Any deposit held by the Company for five (5) years or more shall not be refunded.

16. In areas where the Company's standard design requires that underground conductors be placed in concrete-encased duct systems, typically designated downtown areas, the Company will bear the expense of the concrete-encased duct system on public easements. Where the design to meet the owner's request requires the concrete-encased duct system to be extended onto private property, the owner will provide, or will make payment to the Company for, the appropriate concrete-encased duct system to the Company's specification.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

Foreword

The Service Regulations of the Company are filed with the Commission having jurisdiction over public utilities. The regulations are presented here and are incorporated by reference in each contract or agreement for electric service.

Definitions

Duke Energy Carolinas is referred to herein as the "Company", and the user or prospective user is referred to as the "Customer". The North Carolina Utilities Commission is referred to as the "Commission".

I. Service Agreement

Electric service will be supplied under (a) the Company's standard form of application, service agreement, or contract, (b) the applicable rate schedule or schedules, and (c) these service regulations, unless otherwise specified in any particular rate schedule or contract on file with and approved by the Commission. The Company shall not be required to supply service unless and until such agreement is executed by the Customer and the Company. It is understood and agreed that no promise, statement or representation by an agent, employee or other person shall be binding upon the Company unless it is in writing and attached to and made a part of the agreement. However, when the requested supply of electricity is for residential use, or for nonresidential use under contracts of two thousand kilowatts (2000 kW) or less, and no additional charges are involved, the Customer's application or agreement may be verbal. When the application or agreement is verbal, the Company's applicable rate schedules, riders, and these Service Regulations will be effective in the same manner as if the Company's standard form of application or agreement had been signed by the Customer and accepted by the Company. A verbal service agreement shall be presumed when there is no written application by a Customer, if electricity supplied by the Company is used by the Customer or on the Customer's premises.

Cancellation of Agreement for Nonresidential Service at Customer's Request

Unless otherwise provided in the rate schedule and/or rider(s) under which the Customer is served, if the Customer requests an amendment to or termination of the agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company as an early termination charge the lower of:

a. The net present value of the monthly minimum bills, including, but not limited to, basic facilities, demand, and extra facilities charges, for the remaining term under the agreement less the expected net present value of the monthly minimum bills for the initial term of contract of any successor customer who has applied for service at the premises prior to the effective date of the contract amendment or termination, provided, however, this amount shall not be less than zero.

or

b. The loss due to early retirement ("LDER") of all transmission and distribution facilities specifically installed by the Company in order to provide the Customer with electric service under the agreement that will not be utilized by any successor customer who has applied for service at the premises prior to the effective date of the contract amendment or termination. The LDER amount shall be calculated as the installed cost of such facilities less accumulated depreciation, less any salvage value, plus removal cost, provided, however, this amount shall not be less than zero.

Agreement Personal

The rights of the Customer under the agreement are personal and shall not be transferred or assigned by the Customer without the written consent of the Company.

Service Used in Advance

If service is used by the Customer before the application or agreement is completed, the service shall be governed by these regulations and the appropriate rate schedule. The Company may discontinue service at any time upon failure or refusal of the Customer to complete the application or agreement and pay in full the amount due for the service to that date.

Vacated Premises

The Customer will notify the Company before quitting or vacating the premises served under the agreement, and will pay upon presentation, all bills due, including any early termination charges, under all agreements.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

II. New Service

Deposit

Since an accumulation of unpaid bills would tend toward higher rates for all customers, the Company may require a deposit before beginning service or before reestablishing service or in the event of a material change of circumstances as allowed by the Rules and Regulations of the Commission. The amount of the deposit and the interest paid on deposits will be in accordance with the Rules and Regulations of the Commission. The Company may require an increase or allow a decrease in the deposit if changes occur in the amount of bills rendered to the Customer. The Company may refund a deposit at any time. When service is discontinued, the Company will refund the deposit plus any accumulated interest, less any unpaid bills.

Connection Charge

When the Company first supplies electricity under a metered rate schedule, the Customer shall pay the Company a connection charge of $8.00. This charge shall become a part of the first bill rendered to Customer for electricity supplied at such premises. The connection charge applies to any new service set up which requires reading the meter, installing a meter, connecting a meter or installing new facilities. The charge does not apply to outdoor lighting rates schedules and does not apply to meter changes due to a change in rate schedule.

III. Customer's Wiring and Equipment

Equipment which will operate in one location may not operate in another location due to difference in voltage, phase, or frequency of electric service. The Customer shall give the Company notice and shall determine type of service available at the premises before wiring or purchasing equipment. The Company may specify the voltage and type of electric service to be furnished, and may also specify the location of the meter and the point where the service connection shall be made.

All the Customer's wiring and equipment must be installed and maintained in accordance with the requirements of the local municipal and state authorities; otherwise, the Company may refuse to connect service or may discontinue service to the Customer. The Customer shall keep in repair all such wiring and equipment to the point of connection with the facilities of the Company.

Changes in Customer's Wiring and Equipment

The Customer shall not use any equipment, appliance or device, or permit the continuation of any condition which tends to create any hazard or otherwise adversely affect the Company's service to the Customer or other customers, without written consent of the Company. When polyphase service is used by any customer, the Customer shall control the use of service so that the load will be maintained in reasonable electrical balance between the phases at the point of delivery.

The Customer shall give the Company reasonable notice in writing of any anticipated increase in demand exceeding 20 kW or 10% of the former demand, whichever is greater. The notice shall state the approximate increase and the date required. If the Company determines the unexpired term of the agreement is sufficient to justify the additional investment required, the Company will endeavor to provide additional capacity for any increase requested by the Customer within 90 days of said notice. If Customer increases his load without adequate notice to Company, and without receiving Company's consent, and such unauthorized increase causes loss of or damage to Company's facilities, the cost of making good such loss or repairing such damage shall be paid by Customer.

The Company will extend its facilities and change the point of delivery only when the investment required is warranted by the anticipated revenue and when the extension is permissible and feasible.

IV. Access to Customer's Premises

The Company shall at all reasonable times have the right of ingress to and egress from the premises of the Customer for any and all purposes connected with the delivery of service, or the exercise of any and all rights under the agreement.

V. Right of Way

The Customer shall at all times furnish the Company a satisfactory and lawful right of way easement over his premises for the construction, maintenance and operation of the Company's lines and apparatus necessary or incidental to the furnishing of service.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

The Customer shall also furnish satisfactory shelter for meters and other apparatus of the Company installed on the premises, except where the Company elects to install such equipment outdoors.

The Company may change the location of the right of way upon request of the Customer, and may require the Customer to pay the cost of the change. The change will not be made where it will interfere with or jeopardize the Company's service, either to the Customer requesting the change, or to any other customer or customers. All privileges of the Company related to the original location shall apply to the new location.

The obligation of the Company to supply service is dependent upon the Company securing and retaining all necessary rights-of-way, privileges, franchises or permits, for the delivery of such service and the Company shall not be liable to the Customer for any failure to deliver service because of the Company's inability to secure or retain such rights-of-way, privileges, franchises, or permits.

With respect right of way maintenance procedures, the Company shall, upon request, provide the customer written information concerning its methods for maintaining right-of-way clearances.

VI. Transmission, Distribution, and Service Facilities

The Company's transmission, distribution, and service facilities will be installed above ground on poles, towers, or other fixtures or underground. The Company will require a contribution in aid of construction when the investment required to provide the requested facilities does not produce sufficient revenue to support the investment. Distribution facilities will be installed in accordance with the Company's Distribution Line Extension Plan and the Company's Service Regulations, as approved by the Commission.

Service connections will be made as follows:

1. Where both the Company's lines and the Customer's entrance conductors are above ground, and where the service requires a transformer of 500 kVA or less:

   The Company will extend its service conductors to the Customer's building, terminating them on the outside of the building at a location to be provided by the Customer and satisfactory to the Company for this purpose. The location must be of sufficient height to satisfy the requirements of the National Electric Safety Code and of applicable local codes, and the strength of the structure at the point of termination must be satisfactory to the Company.

   The Customer will provide, install and own all self-contained meter sockets and current transformer enclosures, or the Customer may choose to provide and own a meter/switch enclosure (more commonly known as a house power panel). The Company will utilize and provide service through the Customer's meter/switch enclosure. The Company shall have exclusive control of and access to the metering installation under the following conditions:

   a. The meter/switch enclosure shall be in accordance with the Company's specifications.

   b. The wiring and connections are approved by the Company.

   c. The Customer agrees to allow the Company to open and inspect the meter/switch enclosure at any time.

   d. The Customer agrees to notify the Company and obtain permission before altering or performing maintenance inside the metering section of the meter/switch enclosure.

2. Where both the Company's lines and the Customer's entrance conductors are below ground, or when one is above ground and the other is below ground, or where the size of the Customer's demand or any unusual character of the Customer's location requires the service agreement between the Company and the Customer to be made on one of the Company's long-form Electric Power Contracts, the Company will make the necessary connections from its service conductors to the Customer's entrance conductors as in Section VI.1. above if applicable, or as in Section VI.3. below if applicable. If neither Section VI.1. nor Section VI.3. is applicable, the connection shall be at a point to be agreed upon by the Company and the Customer.

3. When, in the Company's opinion, an individual transformer installation is necessary to serve the Customer's demand and such demand exceeds the capacity of a pole-type transformer installation, the Company may require the Customer

OFFICIAL COPY

Sep 26 2023

to provide suitable outdoor space on his premises to accommodate a ground-type transformer installation. If the Customer is unable to provide outdoor space for a ground-type transformer installation, then the Company may require the Customer to provide a transformer vault on his premises.

a. When the Customer provides space for a ground-type, substation installation using overhead conductors, the point of delivery will be at a location determined by the Company. The Company may require the Customer to provide at the point of delivery, main disconnecting switches which shall control all of the Customer's load other than the fire pump circuit, if any.

b. When the customer provides space for a ground-type, pad mounted transformer installation using underground conductors, the Company will provide and install the transformer. The Customer will provide and install, to the Company's specifications, the concrete pad for the transformer installation. The point of connection with the Customer's entrance conductors will be at the secondary voltage terminals of the Company's transformer.

c. When the Customer provides a transformer vault, the vault shall be constructed in accordance with the Company's specifications, and shall meet the requirements of the National Electrical Safety Code and other applicable safety codes and ordinances. The location of the vault shall meet the Company's requirements for accessibility and ventilation. The Company will provide and install the transformers and necessary associated equipment including circuit breakers, switches, supporting structures for equipment, primary cable and secondary cable to the point of connection with the Customer's entrance conductors. The point of connection shall be 12 inches inside one of the walls of a submersible vault or will be at the secondary terminals of the transformer or the secondary bus in a dry vault. The Company will coordinate the transformer vault installation with its Distribution Line Extension Plan for the installation of the primary cable from the Customer's vault to the Company's existing distribution facilities.

4. With respect to any service, after a service installation has been made, it may be changed by the Company upon request of the Customer. The Customer must pay the cost of the change unless anticipated additional revenue resulting from new or increased load made possible by the change in the service is sufficient to support the investment to change the facilities. When the requested change results in incremental revenue to the Company, the cost of the change will be reduced by the expected additional revenue over the initial three (3) years as described in the Distribution Line Extension Plan and one (1) year following the change for transmission facilities. The change will not be made where it will interfere with or jeopardize the Company's service either to the Customer desiring the change or to any other customer or customers. A service change includes, but is not limited to, an upgrade in the facilities required to serve the customer, a change in the voltage or the delivery point, any relocation of facilities, or removal of facilities. Changes involving the conversion of overhead facilities to underground facilities are described in the Company's Distribution Line Extension Plan. The customer will not be charged (1) for temporary disconnection and later reconnection of a service line during normal business hours to allow a tree to be cut or to allow electrical work; (2) for removal of a service line during normal business hours; or (3) to move a service line from one meter base to another essentially in the same location. Additionally, the Customer will not be charged for removal of facilities on the Customer's premises that are not currently used and useful, where there is no expectation that the facilities will be used and useful in the foreseeable future, so long as (a) the original term of the contract has been fulfilled, and (b) removal of the facilities would not result in loss of service rights to another utility.

Ownership of Equipment

All conductors and conduits, inside work and equipment, switches, fuses, and circuit breakers, from the point of connection with the Company's service shall be installed and maintained by and at the expense of the Customer. All equipment furnished by the Company shall be and remain the property of the Company.

VII. Meters

The Company will furnish all necessary meters. When a delivery point is changed from one location to another, all expenses in connection with relocation of the meter shall be paid by the Customer. The Company shall have the right, at its option, and at its

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

own expense, to place demand meters, volt meters or other instruments on the premises of the Customer for the purpose of making tests with respect to the Customer's service.

Location of Meter

Meters for all residential service, and for all other service to the extent practicable, shall be located out-of-doors on the Customer's structure at a place which is suitable to the Customer, but which meets all of the Company's requirements for reading, testing, and servicing accessibility, and for safety.

Where it is not practicable, in the Company's opinion, to locate the meter and any associated apparatus out-of-doors, the Customer shall provide a suitable indoor location which meets all of the Company's requirements for reading, testing, and servicing accessibility, and for safety.

Failure or Inaccuracy of Meter

In case of the failure or inaccuracy of a meter, the Customer's bill, for the appropriate portion of the period of such failure or inaccuracy, shall be calculated to correct for billing error as provided in the Rules and Regulations of the Commission.

Meter Tests

The Company will test the meter serving the Customer's premises under the provisions provided for in the Rules and Regulations of the North Carolina Utilities Commission. When the Customer requests a meter test on a more frequent basis than that provided for in the Commission's rules, a charge of $50.00 will be made to the Customer for self-contained meters, and $65.00 for all other meters.

VIII. Meter Reading

Meters will be read and bills rendered monthly. Meter readings may be obtained manually on the customer's premises, or remotely using radio frequency or other automated meter reading technology. Billing statements will show the readings of the meter at the beginning and end of the billing period, except; however, when interval load data is used to determine the bill under certain rate schedules or riders, only the billing units may be shown.

Meters with a constant of one may be read to the nearest 10 kilowatt-hours except in the case of initial or final bills. For purposes of establishing billing demand and minimum bills, the nearest whole kW may be used.

Bills Due Where No Notice Received

The Company will endeavor to deliver to the Customer, by US mail, electronic mail, or messenger, a monthly statement of the amount due the Company by the Customer.

All bills are due and payable on the date of the bill, during regular business hours, at the office of the Company. Bills for residential and nonresidential service are past due and delinquent on the 25th day after the date of the bill.

Failure to receive a statement which has been properly mailed or hand-delivered will not entitle the Customer to any delay in paying the amount due beyond the date when the bill is due and payable.

The word "month" as used herein, and as used in the rate schedules of the Company means the period of time between the regular meter readings by the Company. Readings are taken each month at intervals of approximately 30 days.

Bills rendered for periods of less than 26 or more than 34 days and all initial and final bills rendered on a Customer's account will be prorated on the basis of a normal 30-day billing period; however, if an initial and final bill occur within the same billing month, no such proration will be made.

Where Meter Is Not Read

If, for any reason, a meter is not read at the regular reading time, the Company may estimate the amount of service used and make any adjustment which may be necessary in the bill rendered when the meter is next read. Or the Company may render the Customer a bill for a minimum charge and credit the Customer for this charge when the meter is read and bills computed for 30-day intervals.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

Offsets Against Bills

No claim or demand which the Customer may have against the Company shall be set off or counterclaimed against the payment of any sum of money due the Company by the Customer for services rendered. All such sums shall be paid in accordance with the agreement regardless of any claim or demand.

Adjustment of Billing Errors

In case of a billing error, the Customer's bill, for the appropriate portion of the period of such billing error, shall be calculated to correct for billing error as provided in the Rules and Regulations of the Commission.

IX. Responsibility Beyond Delivery Point

It is understood and agreed that the Company is merely a furnisher of electricity, deliverable at the point where it passes from the Company's wires to the service wires of the Customer, or through a divisional switch separating the Customer's wires and equipment from the Company's wires and equipment. The Company shall not be responsible for any damage or injury to the buildings, motors, apparatus, or other property of the Customer due to lightning, defects in wiring or other electrical installations, defective equipment or other cause not due to the negligence of the Company. The Company shall not be in any way responsible for the transmission, use or control of the electricity beyond the delivery point, and shall not be liable for any damage or injury to any person or property whatsoever, or death of any person or persons arising, accruing or resulting in any manner, from the receiving or use of said electricity.

Interference With Company Property

The Customer shall not interfere with, or alter the Company's meters, seals, or other property, or permit the same to be done by others than the Company's authorized agent or employee. Damage caused or permitted by the Customer to said property shall be paid for by the Customer. When unauthorized use of electric service is discovered, the Company may discontinue service and the Customer shall be required to pay for the estimated unauthorized usage, the costs of inspection, investigation, and reconnection before service is restored.

X. Resale Service

This contract is made and electricity is sold and delivered upon the express condition that electricity supplied by the Company shall be for the Customer's use only and the Customer shall not directly or indirectly sell or resell, assign, or otherwise dispose of the electricity or any part thereof, on a metered or unmetered basis to any person, firm or corporation except, (1) as provided for in North Carolina General Statutes ("G.S.") 62-110(h) regarding resale of electricity by landlords to residential tenants where the landlord has a separate lease for each bedroom in the unit, and where such landlord has complied with the requirements in Chapter 22 of the Rules and Regulations of the Commission, or (2) as may be exempt from regulation under G.S. 62-3(23)(d) and (h).

Under no circumstances will the Company supply electricity for resale in competition with the Company.

Customer Generation and Foreign Electricity

The Customer shall not use the Company's electric service in parallel with other electric service, nor shall other electric service be introduced on the premises of the Customer for use in conjunction with or as a supplement to the Company's electric service, without the written consent of the Company. Non-utility owned generation systems may be allowed to interconnect pursuant to the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission, and upon entering into a contract for such service under an applicable rate schedule and/or rider.

XI. Service Interruptions

The Company does not guarantee continuous service. It shall use reasonable diligence at all times to provide uninterrupted service, and to remove the cause or causes in the event of failure, interruption, reduction or suspension of service, but the Company shall not be liable for any loss or damage to a customer or customers resulting from such failure, interruption, single-phase condition,

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

reduction or suspension of service which is due to any accident or other cause beyond its control, or to any of the following:

1. An emergency action due to an adverse condition or disturbance on the system of the Company, or on any other system directly or indirectly interconnected with it, which requires automatic or manual interruption of the supply of electricity to some customers or areas in order to limit the extent or damage of the adverse condition or disturbance, or to prevent damage to generating or transmission facilities, or to expedite restoration of service, or to effect a reduction in service to compensate for an emergency condition on an interconnected system.

2. An Act of God, or the public enemy, or insurrection, riot, civil disorder, fire, or earthquake, or an order from Federal, State, Municipal, County or other public authority.

3. Making necessary adjustments to, changes in, or repairs on its lines, substations, and facilities, and in cases where, in its opinion, the continuance of service to Customers' premises would endanger persons or property.

4. It is expressly understood and agreed that the Company does not contract to furnish power for pumping water for extinguishing fires. In the event that the Customer shall use said electric power, or any part thereof, for pumping water to be used for extinguishing fires, the Customer shall, at all times, keep on hand, or otherwise provide for, an adequate reserve supply of water so that it shall not be necessary to pump water by means of said electric power during a fire. It is expressly understood and agreed that the Company shall not, in any event, be liable to the Customer, nor to any of the inhabitants of any municipal consumer nor to any person, firm or corporation for any loss or injury of or to property or person by fire or fires occasioned by, or resulting directly or indirectly from the failure of any pump, pumping apparatus or appliances to operate, whether said failure shall be due to the act or omission of the Company or otherwise. It is the intention of the parties hereto that the Company shall not, in any event, be liable for any loss or damage occasioned by fire or fires which may be caused by, or result from the failure of the Company to supply electric power to operate such or any pump or pumping apparatus or appliances.

XII. Suspension, Denial or Discontinuance of Service

The Company, subject to the rules of the Commission, shall have the right to suspend its service for repairs or other necessary work on its lines, or system. In addition, the Company shall have the right to deny, suspend, or discontinue its service for any of the following reasons, provided the applicable statute of limitations is not exceeded and provided that the Company shall not suspend, deny or discontinue residential service for failure to pay outstanding bills for nonresidential service:

1. If a customer misrepresents his or her identity in a written or verbal agreement for service or receives service using another person's identity, except when a landlord as Customer provides electricity to a tenant as the user of the service in accordance with the "Provision of Electric Service by Landlord as Customer" section of these Service Regulations.

2. For violation by the Customer of any terms or conditions of the agreement between the Company and the Customer, or violation of any of these service regulations which are a part of the agreement.

3. For the reason that the Customer's use of the Company's service is detrimental to the service of other Customers.

4. For the reason that the Customer's use of the Company's service conflicts with, or violates orders, applicable ordinances or laws of the state or any subdivision thereof, or of the Commission having regulatory powers.

5. For the reason that wiring, equipment, appliance or device is installed or in use on the Customer's premises which permits the electricity to be used without passing through the Company's meter, or which prevents or interferes with the measuring of electricity by the Company's meter.

6. For the nonpayment of any bill, when due, for service rendered by the Company in the Customer's name at any location.

7. Upon failure or refusal of the Customer to make, restore or increase a deposit as required by the Company.

8. For the reason that the Company learns that at the time of application for service, a member of the household or business at the service location is indebted to the Company for service previously rendered in any area served by the Company.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

9. For the reason of a past due and unpaid balance for service rendered by the Company in the name of another person who resides with the Customer after service has been provided to the Customer's household, but only if one or more of the following apply:

    a. The Customer and the person were members of the same household at a different location when the unpaid balance for service was incurred.

    b. The person was a member of the Customer's current household when the service was established, and the person had an unpaid balance for service at that time.

    c. The person is or becomes responsible for the bill for the service to the Customer.

10. For the reason of a delinquent account for service rendered by the Company in the name of any other person who will reside in the Customer's household after the Customer receives the service, but only if one or more of the following apply:

    a. The Customer and the person were members of the same household at a different location when the unpaid balance for service was incurred.

    b. The person was a member of the Customer's current household when the service was established, and the person had an unpaid balance for service at that time.

11. For the reason that a Customer as landlord provides electricity to a tenant as user of the service in violation of the "Provision of Electric Service by Landlord as Customer" section of these Service Regulations.

Provision of Electric Service by Landlord as Customer

1. For rental properties served on a nonresidential rate schedule and for rental properties which are condominiums, manufactured home, or are houses served under a residential rate schedule with just one dwelling unit and having one lease per residential dwelling unit, a customer who is either a landlord or property manager may provide electricity to a tenant as an amenity included in the rent so long as the landlord or property manager does not impose any variable rental charges based upon the electric usage by the tenant or any other additional fees or charges related to the provision of electric service and otherwise complies with applicable law related to the provision of electric service under these circumstances. In this circumstance, the bill for electric service in the name of the landlord or property manager shall be issued to the landlord's mailing address and not the service address.

    a. Upon the Company's request, the landlord or property manager shall provide a copy of the lease agreement with the tenant or other documentation to confirm the rental arrangement complies with this service regulation.

    b. The landlord or property manager shall provide the tenant with notice that the tenant may request that the landlord or property manager authorize the tenant to receive a copy of any disconnection notice as provided for in NCUC Rule R12-11(n).

2. For residential rental properties with multiple dwelling units within a building and individual leases per dwelling unit, the landlord or property manager must either:

    a. Provide individual meters for each dwelling unit, with the utility accounts in the name of the tenants (customers) in compliance with the prohibition on master meters as provide in G.S. 143-151.42; or

    b. Qualify for an exception to G.S. 143-151.42. Exceptions may include a Commission ordered exemption, such as energy efficient central HVAC units, or buildings with construction permits issued prior to September 1, 1977, or landlord resale of electric service in compliance with G.S. 62-110(h).

Removal of Equipment

In the event of discontinuance of service or expiration of contract, then it shall be lawful for the Company to remove its meters, apparatus, appliances, fixtures, or other property.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

Waiver of Default

Any delay or omission on the part of the Company to exercise its right to discontinue or suspend service, or the acceptance of any part of any amount due, shall not be deemed a waiver by the Company of such right so long as any default in whole or in part or breach of contract on the part of the Customer shall continue, and whenever and as often as any default or breach of contract shall occur.

Reconnect Fee

In case of discontinuance of service for any reason except repairs or other necessary work by the Company, the Customer shall pay the Company a reconnect charge of $8.00 before service will be restored.

Returned Payment Charge

When a check, electronic check, bank draft, debit card or credit card tendered for payment of a Customer's account, is subsequently returned by a financial institution due to a failure of the issuer's financial institution to honor the payment for good and sufficient reason, a $5.00 fee will be charged to the Customer for each such returned payment. The Company, at its option for good cause, may refuse to accept a check, electronic check, debit card, or credit card tendered as payment on a Customer's account.

XIII. Unavoidable Cessation of Consumption

In the event the Customer's premises is destroyed by fire, natural disaster; or other casualty, or the operation of its plant is shut down because of strike, fire, natural disaster, or other cause beyond the Customer's control, making a complete cessation of service, then upon written notice by the Customer to the Company within 30 days thereafter, advising that the Customer intends to resume service as soon as possible, any minimum charge, or guarantee for which the Customer may be liable will be waived during the period of such cessation, and the contract shall be extended for a corresponding period. Otherwise, the agreement for service shall immediately terminate. When service has ceased under the described conditions, the Company shall have the right to (1) waive the collection of a deposit to reestablish service, (2) waive temporary service charges for temporary facilities or for reestablishment of service when such charges do not exceed a reasonable amount, (3) waive the collection of area lighting charges due to early termination of contract, and (4) waive the collection of a reconnection fee.

XIV. Copies

Schedules of rates, riders, copies of service regulations and information on right of way maintenance practices are available from the Company and from the Company's website. Forms of agreements and contracts are also available upon request.

XV. Changes

All agreements and contracts for service between the Company and its customers, including the rate schedules, riders, other programs and these Service Regulations, are subject to such changes and modifications from time to time as approved by the Commission or otherwise imposed by lawful authority.

XVI. Types of Service

The types of service supplied and the schedules applicable thereto are as follows:

1. Residential Service

The residential rate schedules are applicable to an individual residence, condominium, townhome, individually metered apartment, or, in accordance with the terms of Section XVI.2.a, a manufactured home, mobile home, or tiny home. The residential rate schedules shall be applicable to only one meter serving an individual residence.

The residential rate schedules are available for a single dwelling unit providing independent living facilities complete for living, sleeping, eating, cooking and sanitation. To qualify for a residential rate schedule, the dwelling unit must be connected to water and sewer facilities and labeled as a structure which can be used as a residential dwelling. If the structure does not meet the requirements of a residential dwelling unit, service will be provided on one of the general service rate schedules.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

Outbuildings, garages, swimming pools, water pumps, and other uses which form a part of the general living establishment on the same property with a residence may be connected to the residential service meter, or they may be separately metered; such separately metered services may be served on one of the residential service rate schedules as of January 1, 2024.

Individual meters shall be installed by the Company for each individual residence, condominium, manufactured home, housekeeping apartment, or housekeeping unit for which a permit was issued or construction started after September 1, 1977, in accordance with G.S. 143-151.42 which prohibits master metering. Exceptions must be approved by the Commission.

Residential service to two or more residences on the same property or to a residence or residences sub-divided into two or more individual housekeeping units may not be supplied through one meter on a residential rate schedule except as provided below:

Block Billing Under Residential Rate Schedules

a. If, for any reason, the wiring is so arranged by the Customer that rewiring for individual meters is not feasible, but a single meter must be used for two or more residences or units, then for billing purposes through this single meter, the Basic Facilities Charge and each kWh block of the rate schedule shall be multiplied by the number of residence units served.

b. Condominium units which were served as apartments through a single meter on a general service rate schedule before December 1, 1979, may continue to be served through one meter on a residential schedule; however, the Basic Facilities Charge and each kWh block of the rate schedule shall be multiplied by the number of residence units served.

2. Service to Manufactured, Mobile, and Tiny Home Parks, Recreational Parks, Portable Structures

a. Manufactured, Mobile, and Tiny Home Parks

Each space designated for the parking of manufactured homes, mobile homes, or tiny homes will be served through a separate meter for billing. Homes in manufactured, mobile, and/or tiny home parks that meet the requirements for a residential dwelling in Section XVI.1. above will be billed in accordance with the applicable residential rate schedule. Nonpermanent homes in manufactured, mobile, and tiny home parks will be provided service under Section XVI.15. Service connections will be the same as set forth in Section VI.1.

Energy used by the manufactured, mobile, or tiny home park in its office, service buildings, area lighting, water pumps, and other purposes connected with the operation of the park, including spaces designated for the overnight parking of homes in transit or awaiting assignment to separately metered spaces available within the park, may be served through a single meter, and will be billed in accordance with the applicable general service rate schedule.

b. Recreational Parks, Campgrounds and Marinas

Service to recreational parks, campgrounds and marinas may be supplied to each establishment at one delivery point, and energy used in its offices, service buildings, area lights, water pumps, individual service outlets at campsites and boat slips, and other purposes connected with its operation, will be billed through one meter in accordance with the applicable general service rate schedule.

Where a portable structure (travel trailer, camper, motor home, water craft etc.) occupies and remains at an individual site in a recreation park, marina or campground under a lease arrangement for twelve (12) months or longer and meets the requirements for a residential dwelling in Section XVI.1., the Company may, at its option, provide an individual delivery and meter the service at the structure. When a portable structure is set up permanently at a site and meets the requirements of a residence in Section XVI 1. above, energy used will be billed in accordance with the applicable residential rate schedule. Service connections will be the same as set forth in Section VI.1.

c. Locations other than Manufactured Home Parks, Recreational Parks, Campgrounds or Marinas

Service will be provided as set forth in Section XVI.15., except that if the Customer presents satisfactory evidence of meeting the requirements for a residential dwelling in Section XVI.1. and owns the property or, if rented, under a lease arrangement for 12 months or longer, service will be provided under a residential rate schedule. Service connections will be the same as set forth in Section VI.1.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

3. Residential Service to Group Facilities

Facilities designed to provide residential care or a group home in a residential structure for up to and including nine adults or children (excluding houseparent or caregiver) may be served on a residential rate schedule provided the facility is a single housekeeping unit and energy is used only by equipment which would normally be found in a residence. If the facility has a separate housekeeping unit for the caregiver, commercial cooking or laundry equipment, vending machines, or other equipment not normally found in a residence the facility will be served on a general service rate schedule.

4. Professional Offices or Business Activities in Residences

For residences involving some business, professional, or other gainful activity, a residential rate schedule will be permitted only where:

a. the electric energy used in connection with such activity is less than 15% of the total energy use; and

b. the electric energy is used only by equipment which would normally be used in a residence.

Conspicuous business soliciting devices about the premises may be *prima facie* evidence that 15% or more of total electric energy use is for the business activity.

If all of the foregoing conditions cannot be met, the entire premises shall be classified as nonresidential and an appropriate nonresidential rate schedule shall be applied.

The Customer may, at his option, provide separate circuits so that the residential uses can be metered separately and billed under a residential schedule and the other uses under a general service schedule.

For residences in which a Day Nursery is operated, a residential rate schedule will be permitted provided:

a. The operator and the operator's family, if any, live there.

b. The nursery requires no extra electrical equipment or space in addition to that normally required for the operator's family.

c. There are no conspicuous business soliciting devices about the premises.

If all of the foregoing conditions cannot be met, then the facility will be served on a general service rate schedule.

5. Farm and Rural Service

The residential rate schedules are available for service through one meter to the Customer's personal farm residence, and for the usual farm uses outside the dwelling unit, but not for commercial operations selling at retail, or for non-farming operations, or for the processing, preparing, or distributing of products not indigenous to that farm.

The residential farm service customer may, at his option, elect to take the entire service under one of the general service rate schedules, or he may provide separate circuits so that the residential dwelling unit, together with the usual farm uses outside the dwelling unit, can be metered and served under a residential rate schedule, and the other uses under a general service rate schedule.

6. General Service

General Service rate schedules are available to the individual customer for any purpose other than those excluded by the availability paragraph of the schedules, and they shall apply to the following:

a. Customers engaging in retail trade or personal service directly with the public such as hotels, motels, boarding houses; ("Boarding house" is defined as an establishment making a business of providing rooms and/or meals to the public in much the same manner as hotels and restaurants; or which has a license for operating such an establishment. This does not include homes taking in a small number of roomers and/or boarders, where the homeowner does not depend on the revenue there from as a principal source of income.)

b. Hospitals, nursing homes, institutional care facilities;

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

c. Office buildings, stores, shops, restaurants, service stations, and other commercial establishments;

d. Schools, dormitories, churches, and other nonresidential customers, and other non-industrial customers;

e. Energy used in a multi-family residential structure (other than the individual housekeeping units), such as hall lighting, laundry facilities, recreational facilities, etc.

f. Miscellaneous services with individual meters serving well pumps, signs, customer-owned lighting, garages, etc.

General Service rate schedules continue to be available for master-metered apartments constructed prior to September 1, 1977, (or after September 1, 1977 with Commission approval) where the establishment consists of:

a. one or more buildings, each three (3) or less stories in height, of three (3) or more individual apartment living units per building, located on contiguous premises and under single ownership, or

b. a single building, under single ownership, four (4) or more stories in height, containing three (3) or more individual housekeeping units,

provided there is no submetering, resale, conjunctional, or sub-billing, or separate charge to tenants for electricity by the landlord, nor any form of variable rental charge based upon the electric usage by any tenant.

Notwithstanding a. above, 10% or less of the total number of living units being served through the single meter may be of two units per building, but no single-family units which may be among the buildings in the establishment can be served through the single meter. The number of buildings and apartment units to be served through a single meter may not be greater than the number for which the developer has secured a construction loan or permanent mortgage as of the date of the contract, and proof of such commitment may be required. Additional units to be built on the original premises or on an adjoining premises, must be contracted for separately and served through a separate meter and served on the applicable general service rate schedule.

Upon mutual agreement by the Customer and the Company, service will be rendered through a single meter to multiple delivery points, with the Company owning the distribution facilities between the meter and the several delivery points as set forth under the Extra Facilities section of these Service Regulations.

Service through a single meter billed on a general service schedule is available only for general building use and residential use. Any tenant who could otherwise qualify for any of the Company's rate schedules other than residential must be served separately by the Company.

The landlord must enter into a contract with the Company for each establishment qualifying for the single meter general service rate schedule in a. or b. above, and the contract shall specify the number of buildings and the number of stories and apartment units within each building in the establishment, the total contract demand of the establishment, and the names of streets, roads, or other boundaries of the contiguous premises within which each establishment is located.

Service will normally be supplied separately to each establishment as determined by the Company.

7. Industrial Service

The industrial service rate schedule is available to customers classified as "Manufacturing" by the North American Industry Classification System ("NAICS"), and where more than 50% of the electric usage of such establishment is for its manufacturing processes.

8. Outdoor Lighting Service

Customer-owned outdoor lighting service may be connected to the residential, general service, or industrial service meter or it may be separately metered. Such separately metered services shall be served on the general service schedule. Where the Company owns and operates the lighting equipment, service will be provided under Schedule OL or NL.

9. Seasonal Service

Where the Customer's use of energy is seasonal, generally it will be to his advantage to keep his premises connected to the Company's lines throughout the year. Under certain rate schedules, the Customer may elect to contract for an annual minimum charge, rather than a monthly minimum charge, as outlined in the applicable schedules. The Company will disconnect the service

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

for a period of inactivity upon request but will make a disconnect charge of $15.00 if the service has been connected less than six (6) months.

10. Government and Municipal Service

The regular general service rate schedules are available for government and municipal service to facilities such as offices and schools. Schedule PL is available to governmental entities for street and public area lighting. Schedule TS is available to governmental entities for traffic and safety signals.

11. Time of Use Service

Time of use rates are optional and are available to residential and nonresidential customers.

12. Power Manager and PowerShare

These optional riders offer credits for contracting customers who provide a source of capacity to the Company when the Company requests interruption of service.

13. Breakdown and Standby Service

The Company does not supply breakdown or standby service, and service under its rate schedules may not be used for resale or exchange or in parallel with other electric power, or as a substitute for power contracted for or which may be contracted for, except at the option of the Company, under special terms and conditions expressed in writing in the contract with the Customer.

14. Net Metering

Net metering is available under Riders NM and SCG for installed customer generation systems and equipment that comply with the provisions outlined in the Interconnection Procedures.

15. Temporary Service

Temporary service for construction of buildings or other establishments which will receive permanent electric service from the Company's lines when completed will be provided under Schedule BC if single-phase service is supplied. Three phase service will be supplied under the applicable general service schedule.

As to temporary service for construction projects which will not result in permanent electric service, such as rock crushers, asphalt plants, mobile classrooms, carnivals, fairs, and other nonpermanent installations, installations will be provided on the general service schedule where the Customer agrees to pay the actual cost of connection and disconnection. The cost shall include payroll, transportation, and miscellaneous expense for both erection and dismantling of the temporary facilities, plus the cost of material used, less the salvage value of the material removed. A deposit may be required equal to the estimated cost of connection and disconnection plus the estimated billing on the applicable rate schedule for the period involved, with said deposit to be returned if the contract period is fulfilled.

As to vehicles or structures designed or used to provide mobility and/or nonpermanent living accommodations (including, but not limited to, boats, campers, motor homes, chassis mounted tiny homes or recreational vehicles), installations will be provided where the Customer agrees to pay the actual cost of connection and disconnection to include payroll, transportation and miscellaneous expense for both erection and dismantling of the temporary facilities, plus the cost of material used, less the salvage value of the material removed.

Extensions for new installations receiving temporary service are covered under Section V. of the Distribution Line Extension Plan.

16. Special Provisions

a. Equipment Protection

(1) Customer shall not utilize any equipment, appliance, or device which tends to affect adversely Company's supply of service to, or the use of service by, Customer or others. Customer shall not install gaseous discharge lighting with a power factor of less than 90% lagging. When polyphase service is supplied by Company, Customer shall control his use so that his load will be maintained in reasonable electrical balance between the phases at the point of delivery.

OFFICIAL COPY

Sep 26 2023

SERVICE REGULATIONS

Customer shall install and maintain devices adequate to protect his equipment against irregularities on Company's system, including devices to protect against single phasing. If the Customer does not prevent voltage fluctuations detrimental to the service, the Company may require the Customer to either discontinue the operation of the equipment or install the necessary motor-generator set or other apparatus to eliminate the disturbance to other customers.

Previously, the Company reserved the option to provide a separate transformer for the exclusive use of one customer where service to certain types of equipment may have created voltage disturbances on the Company's system. This service was metered and billed on the applicable rate schedule. In addition, the Customer was billed 30 cents per kVA per month for the separate transformer. This option is not available for new applications on and after January 1, 2024, but existing customers may continue to receive service under this rate.

(2) If the Company in its discretion determines that the installation of extra facilities or any associated equipment on the Company's side of the delivery point is impossible, infeasible or operationally unsatisfactory, and the Customer demonstrates that only available protective apparatus that it could install on its side of the delivery point to eliminate the disturbance constitutes an emerging technology, the Company and the Customer may agree to jointly implement the emerging technology. The Company may contribute up to 50% of the total cost to implement the emerging technology. The Customer shall enter into a new electric service agreement with the Company which shall have a minimum original term of 10 years. Any early termination fee shall include reimbursement of the Company's contribution on a pro-rata basis. The agreement may include provisions regarding the operating characteristics of the Customer's equipment and performance of the protective apparatus. If the emerging technology protective apparatus does not eliminate the disturbance to any other customer(s) or the Company's system, Section XVI.16.a.(1) above shall apply.

For the purposes of this section, "emerging technology" shall include uniquely designed equipment that has not yet been successfully implemented at three or more comparable facilities in the United States. The Company shall make the final determination as to what constitutes "emerging technology".

b. Selection of Rate Schedule

For certain classes of service, optional schedules are available which result in lower average prices to customers because of their usage characteristics. Since this use is under the control of the Customer, the amount of saving, if any, is also under his control and the choice of schedules, therefore, lies with him.

Upon request, investigation will be made, and assistance will be given to the Customer in selecting the rate which is most favorable to his condition and to determine whether the rate under which he is being billed is the most advantageous. The Company does not guarantee that each customer will be served under the most favorable rate at all times, and will not be responsible for notifying the Customer of the most advantageous rate. Not more than one change from one optional rate to another will be made within any 12-month period for any customer. In addition, when a Customer selects an optional rate with seasonal or time of use pricing, the Company reserve the right to restrict rate changes to once annually, on the anniversary date of the agreement for the optional rate. When a change is made from an optional rate to another, no refund will be made of the difference in charges under different rates applicable to the same class of service.

c. Extra Facilities

At the request of the Customer, the Company will furnish, install, own and maintain facilities which are in addition to those necessary for delivery of service at one point, through one meter, at one voltage, in accordance with the applicable rate schedule, such additional facilities to be furnished under an "Extra Facilities Clause" added to and made a part of the Company's standard form of contract and containing the following provisions:

(1) Service shall be used solely by the contracting Customer in a single enterprise located entirely on a single, contiguous premises, and there shall be no exemption from any of the other provisions of these Service Regulations.

(2) "Extra Facilities" shall consist of such of the following as may be required: voltage regulators, circuit breakers, duplicate service, transformers, substations, connecting lines, off-site facilities or other equipment installed for the use of the contracting Customer, other than facilities which the Company would furnish to the Customer without cost under its standard form of contract.

OFFICIAL COPY
Sep 26 2023

SERVICE REGULATIONS

(3) The facility to be supplied shall be Company standard overhead transmission or distribution, or transmission and distribution, equipment to be installed only on the Company side of the point of delivery.

(4) A monthly "Extra Facilities Charge" equal to 1.0% of the installed cost of the facilities, but not less than $25, shall be billed to the Customer in addition to the billing for energy, or for demand plus energy, in accordance with the applicable rate schedule. In lieu of the monthly charge above, at the Company's option, the Customer may elect to be billed under an alternative payment option to the 1.0% per month. The alternative payment option will be calculated such that the net present value of the payments made by the Customer under the alternative payment option will be equal to the net present value of the 1.0% per month payment option. Under such payment option the payment must be renewed after each 34-year period.

(5) The "installed cost of extra facilities" shall be the original cost of material used, including spare equipment, if any, plus applicable labor, transportation, stores, tax, engineering and general expenses, all estimated if not known. The original cost of materials used is the current market price of the equipment at the time the equipment is installed, whether said equipment is new or out of inventory.

(6) "Extra Facilities" shall include the installed cost of extra meters and associated equipment necessary to record demand and energy at the voltage delivered to the Customer. Upon mutual agreement between the Customer and the Company, demand and energy may be metered at primary voltage, without compensation for transformer loss, and without inclusion of any part of the metering cost as an extra facility. When extra facilities furnished include a voltage regulator, metering equipment shall be installed on the Company side of the regulator, or if this is not feasible, the meter shall be compensated so as to include registration of the regulator losses.

(7) When the extra facilities requested by the Customer consist of those required to furnish service at either more than one delivery point on the premises or at more than one voltage, or both, the installed cost of the extra facilities to be used in the computation of the Extra Facilities Charge shall be the difference between the installed cost of the facilities made necessary by the Customer's request, and the installed cost of the facilities which the Company would furnish without cost to the Customer under its standard form of contract.

(8) The Company shall have the option of refusing requests for extra facilities if, on its own determination, the requested facilities are not feasible, or may adversely affect the Company's service to other customers.

(9) Effective January 1, 2024, Contracts containing the Extra Facilities clause shall have a minimum original term of 10 years to continue from year to year thereafter, and may require advance payment of the Extra Facilities Charge for a period equal to one-half the original term of the contract. The Company will grandfather a minimum original term of five (5) years for any applicable projects underway prior to January 1, 2024.

(10) Customers from whom the Company may be furnishing extra facilities under contracts made prior to September 1, 1962 shall be exempted from all provisions of this Extra Facilities Clause except until such time as their contracts may expire, or are terminated by the Customer, or are terminated by the Company for reasons not related to the furnishing of extra facilities.

(11) In the event that an existing extra facility must be modified or replaced, whether or not such modification or replacement is requested by the affected extra facility Customer, then the installed cost of extra facilities on which the monthly Extra Facilities Charge is based shall be the installed cost of existing equipment, plus the installed cost of new additions, less the installed cost of equipment removed. The installed cost of existing equipment shall be the same installed cost used for said equipment immediately prior to the modification or replacement. The installed cost of new additions shall be the current market price of said new additions at the time the new additions are installed. The installed cost of equipment removed shall be the same installed cost used for said equipment immediately prior to removal.

OFFICIAL COPY

Sep 26 2023

OUTDOOR LIGHTING SERVICE REGULATIONS

1. APPLICATION

The Outdoor Lighting Service Regulations are applicable to service under Outdoor Lighting Service Schedule OL and Street & Public Lighting Schedule PL (collectively "Schedules" or individually "applicable Schedule").

2. SERVICE AGREEMENT

In order to assure certainty and uniformity of conditions, the Company will only supply outdoor lighting service under its uniform Service Agreement, consisting of (1) the Application for Lighting Service, (2) the applicable Schedule, and (3) the Outdoor Lighting Service Regulations.

3. DEFINITIONS

(a) "Dusk" is a period before nightfall and in the illumination of fixtures it will be considered as being approximately 30 minutes after sunset.

(b) "Dawn" is a period after daybreak and in the illumination of fixtures it will be considered as being approximately 30 minutes before sunrise.

(c) A "lighting-only pole or post" is any standard Company-owned pole or post installed as a part of its overhead lighting system and on which no other Company overhead distribution facilities are installed, or a pole or post installed as a part of its underground lighting system. If another utility or company has overhead conductors or equipment installed on a Company-owned pole or post used by the Company only for lighting, such pole or post will be classified as a lighting-only pole; however, if the Company installs its overhead lighting equipment on a pole or post owned by another utility, such pole or post will not be classified as a lighting-only pole or post.

(d) A "distribution pole" is a pole on which the Company has attached both lighting and overhead distribution facilities or a pole installed in conjunction with the lighting system to which only overhead distribution facilities are attached.

(e) "Standard luminaires" are luminaires billed under the standard monthly rate defined in the applicable Schedule.

(f) "Decorative luminaires" are luminaires with decorative lighting equipment billed under Section 9. Decorative Adder.

4. SYSTEM ACCESSIBILITY

The installation of new lighting fixtures or poles shall be in a location that is readily accessible by a Company truck to support installation and maintenance of Company facilities.

5. EXTENSIONS AND ADDITIONS

Company will extend its lighting system to supply additional lighting units at Customer's request and install the additional lighting units insofar as practical, in accordance with good engineering practice, at the locations Customer designates. Additional lighting units will be installed at the current monthly rates. If any overhead lighting unit is more than the maximum span distance for the overhead conductor required from the next adjacent lighting unit, the Customer will be responsible for the monthly cost of a lift pole to accommodate the additional span length. If the Company has to extend its overhead distribution system, the Customer will be responsible for the applicable fees associated with the installation of the new circuit.

6. FIXTURE FAILURE

Customer will be responsible for notifying the Company of any and all fixtures which are not operational. The Company shall have until dusk of five (5) business days following notice to repair or replace the fixtures. The time within which the Company will be able to commence or to complete the services to be performed is dependent on the Company's ability to secure the materials required and the Company shall not be responsible for failure to install these fixtures for such reason. For a fixture type and/or pole type restricted to existing installations and requiring major renovation or replacement, the fixture and/or pole shall be replaced by an available similar non-restricted fixture and/or pole and the Customer shall

OFFICIAL COPY

Sep 26 2023

OUTDOOR LIGHTING SERVICE REGULATIONS

commence being billed at a rate determined in accordance with all applicable fees of the renovated or replaced fixture and/or pole.

7. FIXTURE REPLACEMENT UPON CUSTOMER REQUEST AND TRANSITION FEES

At the Customer's request, the Company will attempt to replace any luminaire with a comparable luminaire, upon payment of any applicable transition fees, as described in this section. Once replaced, the Customer shall be responsible for the monthly rate of the new luminaire per the applicable Schedule and/or Section 9. Decorative Adder.

(a) Mercury Vapor

Mercury Vapor ("MV") luminaires are no longer available and will not be repaired if they fail. Company will replace any MV luminaire with a comparable Light Emitting Diode ("LED") luminaire, provided the pole or bracket will accommodate a LED luminaire as a replacement.

The Company will replace standard MV luminaires with LED luminaires by December 31, 2019 for Schedule OL customers and beginning January 1, 2020 through December 31, 2023 for Schedule PL customers, provided the pole or bracket will accommodate a LED luminaire as a replacement.

The Company will replace post top and decorative MV luminaires with LED luminaires by December 31, 2024.

(b) High Pressure Sodium Vapor and Metal Halide

Company will replace any High Pressure Sodium Vapor ("HPS") or Metal Halide ("MH") luminaire with a comparable LED luminaire upon payment to the Company of any applicable transition fees.

(1) For standard, non-floodlight luminaires, the transition fee shall be $50 for Schedule OL customers and $36 for Schedule PL customers, for each such luminaire to be replaced.

(2) For all floodlight luminaires, the transition fee shall be $101 for each such luminaire to be replaced.

(3) For decorative luminaires, the transition fee shall be calculated on a per-luminaire basis as the loss due to early retirement of the luminaire to be replaced when the Decorative Adder Fee is paid monthly.

(4) Customers shall not be charged a transition fee for HPS luminaires that are replaced due to fixture failure unless fixture failure is due to willful damage. Customers shall not be charged a transition fee for MH luminaires that are replaced due to failure of the ballast or luminaire.

(5) Schedule PL customers may choose to pay transition fees spread up to a four (4) year period, billed annually. The transition fees under this provision will be billed approximately in August each year for an applicable term.

(c) Light Emitting Diodes

Upon Customer's request, the Company will replace LED luminaires with another LED luminaire at the same location. If the LED luminaire being replaced has been in service less than 20 years and the original contract term has been fulfilled, there will be a fee of $40 paid in advance for each luminaire replaced. For LED luminaires that have been in service for 20 years or longer and initial contract terms have been fulfilled, the Company will, at no cost to the Customer, change the fixture at the same location under a new contract. For LED luminaires where the original contract term has not been fulfilled, the Customer shall pay the applicable termination fee under the original contract, and a transition fee will not be charged.

8. DECORATIVE ADDER

For decorative lighting equipment, in addition to the standard monthly rate in the applicable Schedule, the Customer shall pay a Decorative Adder Fee, either on a monthly basis or as an alternative payment option.

(a) Decorative lighting shall include all lighting equipment not listed in the Rate section of the applicable Schedule.

(b) The monthly charge for decorative lighting shall be the standard monthly rate in the applicable Schedule plus the Decorative Adder Fee. The Decorative Adder Fee shall be 1.0% of the difference between the estimated installed cost

OFFICIAL COPY
Sep 26 2023

OUTDOOR LIGHTING SERVICE REGULATIONS

of the decorative lighting and the estimated installed cost of the standard equivalent lighting equipment in the Rate section of the applicable Schedule.

(c) The alternative payment option shall be the net present value of the monthly fee calculated over a fixed term for the life of the equipment.

9. NONREFUNDABLE CONTRIBUTIONS

(a) In the event that rock, unstable soil, or other conditions require the use of materials and methods of installation other than Company's normal materials and methods, the Customer will contribute the additional cost except when the Service Extension Provision as stated below is applicable.

(b) Customer will contribute the estimated cost of installing cables under paved or landscaped surface areas; however, the Customer may cut and replace the pavement or surface in lieu of making the contribution.

(c) Service supplied under the Schedules does not include the conversion of existing overhead secondary conductors to underground. Should Customer desire such a conversion under the Schedules, the Customer will contribute to the Company, in addition to the applicable contributions above, the estimated net loss in salvage value of the overhead facilities being removed. Customer will thereafter pay the applicable rate for underground service.

10. RELOCATION OF FACILITIES

If Company's lighting facilities are installed within its rights-of-way or easements, upon Customer's request the Company will relocate such facilities to a new location within the same general area provided the Customer will pay to the Company any applicable charges.

11. RIGHTS-OF-WAY

Customer shall furnish, without cost to the Company, satisfactory rights-of-way or franchise for Company to install its lighting circuits and necessary equipment. Customer will be responsible for trimming trees and other vegetation that obstruct the light output from the fixture(s) or maintenance access to the facilities.

12. CONTINUITY OF SERVICE

Company will exercise due diligence and reasonable care and foresight to maintain continuity of service as provided in the Service Agreement, but shall not be considered to be in default in respect of any obligation under the Service Agreement if prevented from fulfilling such obligation by reason of uncontrollable forces or by reason of outages of facilities for repair, replacement or inspection, provided due diligence was used to limit such outages, and provided such outages, except in emergencies, were conducted upon a reasonable prearranged schedule; the term "uncontrollable forces" shall be deemed for the purposes of this Agreement to mean earthquake, storm, lightning, flood, backwater caused by flood, fire, epidemic, accident, failure of facilities, war, riot, civil disturbance, strike, labor disturbance, restraint by an order of court or public authority, or other causes beyond the control of the Company, which by exercise of due diligence and foresight the Company could not reasonably have been expected to avoid. When the Company is rendered unable to fulfill any obligation by reason of uncontrollable forces, the Company will exercise due diligence to remove such disability with reasonable dispatch.

13. DAMAGE TO COMPANY FACILITIES

Customer shall protect Company's wiring, apparatus, lighting fixtures, and poles covered by the Service Agreement from damage or harm. In the event of any loss or damage to such property of the Company caused by or arising out of carelessness, neglect, or misuse by the Customer, his employees or agents, or vandalism, the cost incurred by the Company to repair such facilities shall be paid by the Customer.

OFFICIAL COPY

Sep 26 2023

OUTDOOR LIGHTING SERVICE REGULATIONS

14. CONFLICTS

In case of conflict between any provision of the Schedules and these Outdoor Lighting Service Regulations, the provisions of the applicable Schedule shall prevail.

15. NONSTANDARD FACILITIES

At the request of the Customer, the Company may consent to install lighting facilities, using the Company approved equipment, which has not been established as a system standard subject to the Customer paying to the Company a monthly Extra Facilities Charge as determined under Company's Service Regulations.

Company may, at its own discretion and without additional cost to the Customer, install facilities on an experimental basis without adopting such facilities as standards.

16. GENERAL PROVISIONS

(a) All facilities necessary for Outdoor Lighting service, including fixtures, lamps, controls, poles, hardware, transformers, conductors, and other appurtenances shall be owned and maintained by the Company. Luminaires will be installed only on Company-owned poles.

(b) Equipment (such as disconnecting switches) not supplied by the Company as standard is not available under the Schedules and shall not be installed by the Customer.

(c) Outdoor Lighting is not available for seasonal or other part-time operation of outdoor luminaires, except as otherwise noted.

(d) Service using overhead conductors is not available in any area designated by the Company as underground distribution area, nor in any area, location, or premises being served from an underground source.

(e) For areas outside of municipal limits, location of the luminaire(s) shall be designated by the Customer, but the location must be within the distance which can be reached by a secondary extension from the Company's nearest distribution facilities.

(f) "Suburban" luminaires are defined as standard NEMA-style fixtures with refractors and vertical-burning lamps. "Urban" luminaires are defined as "cobra-style" fixtures with enclosed refractive or flat lenses and horizontal-burning lamps.

17. TERMINATION OF A CONTRACT TERMS

Customer may request to terminate the Contract before the expiration of the initial Contract Period by paying to the Company a sum of money equal to 40% of the monthly bills which otherwise would have been rendered for the remaining term of the initial Contract Period, less the monthly bills for the initial term of contract of any successor customer who has applied for lighting service at the premises prior to the effective date of the contract termination, provided, however, this amount shall not be less than zero.

Additionally, if the Customer requests to terminate the Contract for HPS and/or MH luminaires prior to the end of the original contract term in order to transition to a LED luminaire, the Customer will pay the applicable transition fee, and a termination fee will not be charged.

18. AMENDMENT OF A SERVICE AGREEMENT

(a) If and when mutually agreed upon, a lighting unit or pole may be added or removed from the lighting system or the size of the lamp may be changed. Any change made under this paragraph shall be evidenced by a written memorandum.

(b) If Company extends its general distribution system so as to use special lighting poles for distribution poles or removes its distribution facilities from a pole used for lighting purposes, Company shall so notify Customer of the poles affected and appropriate adjustments will be made in the rendering of monthly bills.

OFFICIAL COPY

Sep 26 2023

OUTDOOR LIGHTING SERVICE REGULATIONS

19. SALES TAX

Any applicable North Carolina Sales Tax shall be added to the applicable charges contained in the Schedules and Outdoor Lighting Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
Rate Year 2 North Carolina Tariffs Proposed for Change

LEAF NO.	DESCRIPTION	REVISION NO.

I. **RETAIL CLASSIFICATION**

A. **RESIDENTIAL RATE SCHEDULES**

11	RS Residential Service	55
13	RE Residential Service Electric Water Heating and Space Conditioning	56
14	ES Residential Service Energy Star	39
15	RT Residential Service Time Of Use	55
136	RSTC Residential Service: Time of Use with Critical Peak Pricing	4
137	RETC Residential Service for All-Electric Customers: Time of Use with Critical Peak Pricing	4

B. **GENERAL SERVICE AND INDUSTRIAL RATE SCHEDULES**

21	SGS Small General Service	33
26	BC Building Construction	53
29	LGS Large General Service	32
31	HLF High Load Factor	Orig.
38	TS Traffic Signal Service	52
41	I Industrial Service	60
49	OPT-V Optional Power Service Time-of-Use with Voltage Differential	18
54	HP Hourly Pricing	37
55	PG Parallel Generation	65
138	SGSTC Small General Service: Time of Use with Critical Peak Pricing	4
204	S Unmetered Signs[1]	32

C. **LIGHTING RATE SCHEDULES**

32	OL Outdoor Lighting	61
34	PL Street and Public Lighting Service	59
35	NL Nonstandard Lighting (Pilot)[1]	28

D. **RETAIL RIDERS**

		IN CONJUNCTION WITH:	
72	NM Net Metering Rider[2]	All Retail Schedules	14
75	SCG Small Customer Generator Rider	All Retail Schedules	14
139	NSC Non-Residential Solar Choice Rider	General Service and Industrial Schedules	Orig.

[1]Not available for new applications
[2]Not available for new applications on and after January 1, 2024

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Fifth Revised Leaf No. 11
Superseding NC Fifty-Fourth Revised Leaf No. 11

SCHEDULE RS
RESIDENTIAL SERVICE

AVAILABILITY

Available to residential customers in residences, condominiums, manufactured homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge per month	$ 14.00
II.	Energy Charge per month, per kWh*	11.3240¢

*For customers receiving Supplemental Security Income (SSI) under the program administered by the Social Security Administration and who are blind, disabled, or 65 years of age or over, the rate for the first 350 kWh used per month shall be 10.1916 cents per kWh. This is an experimental rate authorized by the North Carolina Utilities Commission on August 31, 1978. The present maximum discount to customers being served under this experiment is $3.96 per month.

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

OFFICIAL COPY

Sep 26 2023

SCHEDULE RS
RESIDENTIAL SERVICE

Leaf No. 144	CAR Rider
Leaf No. 147	RDM Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RE
RESIDENTIAL SERVICE
ELECTRIC WATER HEATING AND SPACE CONDITIONING

AVAILABILITY

Available to residential customers in residences, condominiums, manufactured homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation. In addition, all energy required for all water heating and environmental space conditioning must be supplied electrically, and all electric energy used in such dwelling must be recorded through a single meter. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

To qualify for service under this Schedule, the environmental space conditioning system and a separate electric water heater must permanently be installed in accordance with sound engineering practices and the manufacturer's recommendations, and both shall meet the requirements below.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge per month	$14.00
II.	Energy Charge	
	For the billing months of May – September	
	For all kWh per month, per kWh*	10.9472¢
	For the billing months of October – April	
	For the first 800 kWh per month, per kWh*	10.9472¢
	For all over 800 kWh per month, per kWh	9.8525¢

*For customers receiving Supplemental Security Income (SSI) under the program administered by the Social Security Administration and who are blind, disabled, or 65 years of age or over, the rate for the first 350 kWh used per month shall be 9.8525 cents per kWh. This is an experimental rate authorized by the North Carolina Utilities Commission on August 31, 1978. The present maximum discount to customers being served under this experiment is $3.83 per month.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RE
RESIDENTIAL SERVICE
ELECTRIC WATER HEATING AND SPACE CONDITIONING

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 144	CAR Rider
Leaf No. 147	RDM Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

REQUIREMENTS

An electric water heater meeting the specifications set forth below must be installed and used to supply the entire water heating requirements, except that which may be supplied by non-fossil sources such as solar.

1. Water heaters shall be of the automatic insulated storage type, of not less than 30-gallon capacity and may be equipped with only a lower element or with a lower element and an upper element.
2. Water heaters having only a lower element may have wattages up to but not exceeding the wattages shown below for various tank capacities.

Tank Capacity in Gallons	Maximum Single Element Wattage
30 – 49	4,500
50 – 119	5,500
120 and larger	Special approval

3. The total wattage of the elements in a water heater with a lower element and an upper element may not exceed the specific wattages above unless the water heater has interlocking thermostats to prevent simultaneous operation of the two elements such that the maximum wattage is not exceeded during operation.

Electric space conditioning meeting the specifications set forth below must be installed and used to supply the entire space conditioning requirements, except that which may be supplied by supplemental non-fossil sources such as solar.

1. Room-type systems shall be controlled by individual room thermostats.
2. Heat pumps shall be controlled by two-stage heating thermostats, the first stage controlling compressor operation and the second stage controlling all auxiliary resistance heaters. Auxiliary heaters shall be limited to 48 amps (11.5 KW at 240 volts) each and shall be switched so that the energizing of each successive heater is controlled by a separate adjustable outdoor thermostat. A manual switch for by-pass of the first stage and the interlock of the second stage of the heating thermostat will be permitted.
3. Excess heating capacity (15% more than total calculated heat losses) may be disconnected at the option of the Company.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RE
RESIDENTIAL SERVICE
ELECTRIC WATER HEATING AND SPACE CONDITIONING

4. Total heat loss shall not exceed 30 BTUH (at 60 degrees F. temperature differential) per square foot of net heated area. Duke Power's procedure for calculating heat loss or the current edition of ASHRAE (American Society of Heating, Refrigerating, and Air Conditioning Engineers) Guide shall be the source for heat loss calculations. Duct or pipe losses shall be included in the computation of total heat losses.

Billing of service under this schedule will begin after the Customer has notified the Company that qualifications have been met. The Company at all reasonable times shall have the right to periodically inspect the premises of the Customer for compliance with the requirements, subsequent to the initial inspection.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY

Sep 26 2023

SCHEDULE ES
RESIDENTIAL SERVICE, ENERGY STAR

AVAILABILITY

Available to residential customers in residences, condominiums, manufactured homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation, and which are certified to meet the standards of the Energy Star program of the United States Department of Energy and Environmental Protection Agency. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

To qualify for service under this Schedule compliance with the Energy Star standards must be verified by a third party independent Home Energy Rating System (HERS) rater working for an approved HERS provider.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

Electric space heating and/or electric domestic water heating are not required, but if present, must meet the standards outlined below to qualify for the All-Electric rate, and must be permanently installed in accordance with sound engineering practices and the manufacturer's recommendations. In addition, to qualify for service under this schedule all electric energy used in the dwelling must be recorded through a single meter.

Energy Star Home Certification criteria may vary based on the geographical location of the residence. The criteria for each county served by Company and a list of independent HERS raters are available from the Company or on the Energy Star web site at www.energystar.gov.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

		Standard	All-Electric
I.	Basic Customer Charge per month	$14.00	$14.00
II.	Energy Charge		
	For the billing months of May – September		
	For all kWh per month, per kWh	10.7605¢	10.4025¢
	For the billing months of October – April		
	For the first 800 kWh per month, per kWh	10.7605¢	10.4025¢
	For all over 800 kWh per month, per kWh	10.7605¢	9.3626¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE ES
RESIDENTIAL SERVICE, ENERGY STAR

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 144	CAR Rider
Leaf No. 147	RDM Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

REQUIREMENTS

The Standard rate above is applicable to residences where the Energy Star standards are met, irrespective of the source of energy used for water heating or environmental space conditioning.

The All-Electric rate above is applicable to residences where the Energy Star standards are met and all energy required for all water heating cooking, clothes drying and environmental space conditioning is supplied electrically, except that which may be supplied by non-fossil sources such as solar.

1. Water heaters shall be of the automatic insulated storage type, of not less than 30-gallon capacity and may be equipped with only a lower element or with a lower element and an upper element.

2. Water heaters having only a lower element may have wattages up to but not exceeding the wattages shown below for various tank capacities.

Tank Capacity in Gallons	Maximum Single Element Wattage
30 – 49	4500
50 – 119	5500
120 and larger	Special approval

3. The total wattage of the elements in a water heater with a lower element and an upper element may not exceed the specific wattages above unless the water heater has interlocking thermostats to prevent simultaneous operation of the two elements such that the maximum wattage is not exceeded during operation.

Billing of service under this schedule will begin after the Customer has provided the Company with certification that the residence meets the Energy Star standards. In addition, if the residence meets the All-Electric Rate requirements, billing of service under the All-Electric rate will begin after the Customer has provided satisfactory documentation that the residence meets the All-Electric rate requirements. The Company at all reasonable times shall have the right to periodically inspect the premises of the Customer for compliance with the requirements, subsequent to the initial inspection.

OFFICIAL COPY

Sep 26 2023

SCHEDULE ES
RESIDENTIAL SERVICE, ENERGY STAR

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RT
RESIDENTIAL SERVICE, TIME OF USE

AVAILABILITY

Available on a voluntary basis to individually-metered residential customers in residences, condominiums, manufactured homes, or apartments which provide independent facilities for living, sleeping, eating, cooking, and sanitation. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge per month	$14.00
II.	Demand Charges	
	On-Peak Demand per month, per kW	$2.29
	Max Demand per month, per kW	$4.38
III.	Energy Charges	
	On-Peak Energy per month, per kWh	15.2120¢
	Off-Peak Energy per month, per kWh	6.9670¢
	Discount Energy per month, per kWh	4.7918¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider

OFFICIAL COPY

Sep 26 2023

SCHEDULE RT
RESIDENTIAL SERVICE, TIME OF USE

Leaf No. 129 EDIT-3 Rider
Leaf No. 131 EDIT-4 Rider
Leaf No. 144 CAR Rider
Leaf No. 147 RDM Rider
Leaf No. 148 ESM Rider
Leaf No. 149 PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF BILLING DEMAND

I. On-Peak Demand shall be the maximum 30-minute demand in the On-Peak Period during the current billing month.

II. Max Demand shall be the maximum 30-minute demand during the current billing month.

MINIMUM BILL

The minimum bill shall be the Basic Customer Charge.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourth Revised Leaf No. 136
Superseding NC Third Revised Leaf No. 136

SCHEDULE RSTC
RESIDENTIAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

AVAILABILITY

Available to residential customers in residences, condominiums, mobile homes, or individually-metered apartments which provide independent facilities for living, sleeping, eating, cooking, and sanitation. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the Customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge, per month	$14.00
II.	Energy Charges	
	Critical Peak Energy per month, per kWh	39.7259¢
	On-Peak Energy per month, per kWh	21.8262¢
	Off-Peak Energy per month, per kWh	9.5554¢
	Discount Energy per month, per kWh	6.9082¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to each of the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourth Revised Leaf No. 136
Superseding NC Third Revised Leaf No. 136

SCHEDULE RSTC
RESIDENTIAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

Leaf No. 131 EDIT-4 Rider
Leaf No. 144 CAR Rider
Leaf No. 147 RDM Rider
Leaf No. 148 ESM Rider
Leaf No. 149 PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF CRITICAL PEAK PRICING

The Company will call up to 20 Critical Peak Days per calendar year. The number of Critical Peak Days permitted annually may be exceeded in the event of a system emergency that is expected to place the Company's ability to provide reliable service to customers at risk.

During Company-designated Critical Peak Days, On-Peak Hours will become Critical Peak Hours. The Company may shift the Critical Peak Hours one hour earlier or later than the regular On-Peak Hours to provide flexibility for system operations; however, the number of Critical Peak Hours per day will remain the same as the number of On-Peak Hours that would have otherwise occurred. Any shift in Critical Peak Hours will be reflected in the customer notification.

NOTIFICATION OF CRITICAL PEAK PRICING

The Company will notify customers of Critical Peak Days and applicable Critical Peak Hours by 4:00 pm on the prior day. Customers may elect to receive notifications by phone, email and/or text message. The Company will use its best efforts to notify customers by 4:00 pm on the prior day; however, notification of Critical Peak Days may occur at any time, but no later than one hour prior to the Critical Peak period. Receipt of Critical Peak Pricing notification is the Customer's responsibility.

MINIMUM BILL

The minimum bill shall be the Basic Customer Charge.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RSTC
RESIDENTIAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on 30 days written notice.

GENERAL PROVISIONS

Participating customers must provide and maintain internet accessibility, an email address, and/or means to receive phone calls or text messages, as appropriate, at the Customer's expense in order for the Company to provide notification for Critical Peak Pricing.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RETC
RESIDENTIAL SERVICE FOR ALL-ELECTRIC CUSTOMERS: TIME OF USE WITH CRITICAL PEAK PRICING

AVAILABILITY

Available to residential customers in residences, condominiums, mobile homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation. In addition, all energy required for all water heating and environmental space conditioning must be supplied electrically, and all electric energy used in such dwelling must be recorded through a single meter. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

To qualify for service under this Schedule, the environmental space conditioning system and a separate electric water heater must permanently be installed in accordance with sound engineering practices and the manufacturer's recommendations, and both shall meet the requirements below.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge, per month	$14.00
II.	Energy Charges	
	Critical Peak Energy per month, per kWh	41.3429¢
	On-Peak Energy per month, per kWh	19.9346¢
	Off-Peak Energy per month, per kWh	9.1006¢
	Discount Energy per month, per kWh	6.5834¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to each of the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60 Fuel Cost Adjustment Rider
Leaf No. 62 Energy Efficiency Rider

OFFICIAL COPY

Sep 26 2023

SCHEDULE RETC
RESIDENTIAL SERVICE FOR ALL-ELECTRIC CUSTOMERS:
TIME OF USE WITH CRITICAL PEAK PRICING

Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 144	CAR Rider
Leaf No. 147	RDM Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF CRITICAL PEAK PRICING

The Company will call up to 20 Critical Peak Days per calendar year. The number of Critical Peak Days permitted annually may be exceeded in the event of a system emergency that is expected to place the Company's ability to provide reliable service to customers at risk.

During Company-designated Critical Peak Days, On-Peak Hours will become Critical Peak Hours. The Company may shift the Critical Peak Hours one hour earlier or later than the regular On-Peak Hours to provide flexibility for system operations; however, the number of Critical Peak Hours per day will remain the same as the number of On-Peak Hours that would have otherwise occurred. Any shift in Critical Peak Hours will be reflected in the customer notification.

NOTIFICATION OF CRITICAL PEAK PRICING

The Company will notify customers of Critical Peak Days and applicable Critical Peak Hours by 4:00 pm on the prior day. Customers may elect to receive notifications by phone, email and/or text message. The Company will use its best efforts to notify customers by 4:00 pm on the prior day; however, notification of Critical Peak Days may occur at any time, but no later than one hour prior to the Critical Peak period. Receipt of Critical Peak Pricing notification is the Customer's responsibility.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RETC
RESIDENTIAL SERVICE FOR ALL-ELECTRIC CUSTOMERS:
TIME OF USE WITH CRITICAL PEAK PRICING

MINIMUM BILL

The minimum bill shall be the Basic Customer Charge.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on 30 days written notice.

GENERAL PROVISIONS

Participating customers must provide and maintain internet accessibility, an email address, and/or means to receive phone calls or text messages, as appropriate, at the Customer's expense in order for the Company to provide notification for Critical Peak Pricing.

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGS
SMALL GENERAL SERVICE

AVAILABILITY

Available to the individual customer with a kilowatt demand of 75 kW or less. If the customer's measured demand exceeds 75 kW during any month, the customer will be served under Schedule LGS.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$21.00
II.	Demand Charge	
	For the first 30 kW of Billing Demand per month, per kW	No Charge
	For all over 30 kW of Billing Demand per month, per kW	$6.41
III.	Energy Charge	
	For the first 3,000 kWh per month, per kWh	13.1576¢
	For the next 6,000 kWh per month, per kWh	7.2367¢
	For all over 9,000 kWh per month, per kWh	6.1845¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGS
SMALL GENERAL SERVICE

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule, unless the service qualifies for a waiver of the REPS Billing Factor for an auxiliary service.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 70% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 50% of the Contract Demand
4. 30 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

SPECIAL TERMS AND CONDITIONS

Electric service for the operation of community access television (CATV) distribution line power supply equipment is available under this rate schedule for constant load as determined by the Company. Such service is provided only on a metered basis, and each individual delivery point shall be billed the Basic Customer Charge shown above, and all kWh will be billed at a rate of 6.3647 cents per kWh.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGS
SMALL GENERAL SERVICE

payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Third Revised Leaf No. 26
Superseding NC Fifty-Second Revised Leaf No. 26

SCHEDULE BC
BUILDING CONSTRUCTION SERVICE

AVAILABILITY

Available only as temporary service to builders for use in the construction of buildings or other establishments which will receive, upon completion, permanent electric service from the Company's lines.

This Schedule is not available for permanent service to any building or other establishment, or for service to construction projects of types other than those described above. This Schedule is not available to rock crushers, asphalt plants, carnivals, fairs, or other non-permanent connections. Such service will be provided under the applicable general service schedule.

This Schedule is not available for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power, or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter at one delivery point, at 120/240 volts, single phase.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$ 21.00
II.	Energy Charge	
	For the first 50 kWh used per month, per kWh	10.5530¢
	For all over 50 kWh used per month, per kWh	8.1775¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

OTHER CHARGES

There will be no charge for connection and disconnection of the temporary service if the builder accepts delivery at a point where the Company deems such delivery feasible: otherwise, there will be a charge as follows: Overhead service conductors,

OFFICIAL COPY

Sep 26 2023

SCHEDULE BC
BUILDING CONSTRUCTION SERVICE

transformers and line extensions necessary to serve such requirements will be erected and dismantled at actual cost subject to credit for facilities which may remain in permanent service. The actual cost shall include payroll, transportation, and miscellaneous expense for both erection and dismantling of the temporary facilities, plus the cost of material used, less the salvage value of the material removed.

If the builder or his subcontractors require additional temporary services at the same construction site, a charge, computed as in the foregoing, shall be made for each such service. The Company may require a deposit equal to the estimated cost of connection and disconnection plus the estimated billing on the foregoing rate for the period involved, said deposit to be returned if the contract period is fulfilled.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The term of this contract shall be the estimated length of time, declared by the builder on making application for service, required for completion of construction at the location where service is requested. The builder shall notify the Company when construction is completed. If at any time during the term of this contract, inspection discloses construction completed, or energy being used for purposes other than that set forth in this Schedule, the contract shall be deemed terminated, and billing for service thereafter, until disconnection is requested, shall be on the applicable general service schedule. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE LGS
LARGE GENERAL SERVICE

AVAILABILITY

Available to the individual customer with a kilowatt demand of more than 75 kW. If the customer's measured demand is 75 kW or less for twelve consecutive months, the customer will be served under Schedule SGS.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$26.00
II.	Demand Charge	
	For the first 30 kW of Billing Demand per month, per kW	No Charge
	For all over 30 kW of Billing Demand per month, per kW	$4.65
II.	Energy Charge	
	For the first 125 kWh per kW Billing Demand per month:	
	For the first 3,000 kWh per month, per kWh	13.0537¢
	For all over 3,000 kWh per month, per kWh	7.7101¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE LGS
LARGE GENERAL SERVICE

For the next 275 kWh per kW Billing Demand per month:	
For the first 6,000 kWh per month, per kWh	7.1924¢
For all over 6,000 kWh per month, per kWh	6.2384¢
For all over 400 kWh per kW Billing Demand per month:	
For all kWh per month, per kWh	5.8347¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider as shown in Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 70% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 50% of the Contract Demand
4. 30 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

OFFICIAL COPY

Sep 26 2023

SCHEDULE LGS
LARGE GENERAL SERVICE

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HLF
HIGH LOAD FACTOR

AVAILABILITY

Available to the individual customer with a kilowatt demand of 1,000 kW or more.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$34.00		
II.	Energy Charge per kWh, per month	2.7773¢		
		Secondary	Primary	Transmission
III.	Demand Charge per kW of Billing Demand, per month	$20.36	$18.73	$18.32

Demand Charge is based on delivery voltage. Secondary service includes delivery voltage less than or equal to 600 volts. Primary service includes delivery voltage greater than 600 volts but less than 44 kV. Transmission service includes delivery voltage greater than or equal to 44 kV.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HLF
HIGH LOAD FACTOR

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 90% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 75% of the Contract Demand
4. 1,000 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kW for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the 25th day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the 25th day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least 60 days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Second Revised Leaf No. 38
Superseding NC Fifty-First Revised Leaf No. 38

SCHEDULE TS
TRAFFIC SIGNAL SERVICE

AVAILABILITY

Available to municipalities in which the Company owns and operates the electric distribution system, and to County, State, and Federal Authorities, in areas served by the Company, for the energy requirements of traffic and safety signal systems, wireless communications equipment, and cameras used to monitor traffic.

Power delivered under this Schedule shall not be used for resale or exchange or in parallel with other electric power, or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at 120/240 volts, single-phase.

RATE

I.	Basic Customer Charge per month	$8.00
II.	Energy Charge	
	For the first 50 kWh per month, per kWh	39.2986¢
	For all over 50 kWh per month, per kWh	14.7242¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year and thereafter until terminated by either party on thirty days' written notice.

OFFICIAL COPY

Sep 26 2023

SCHEDULE TS
TRAFFIC SIGNAL SERVICE

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE I
INDUSTRIAL SERVICE

AVAILABILITY

Available only to establishments classified as "Manufacturing" by the North American Industry Classification System (NAICS), and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$21.00
II.	Demand Charge	
	For the first 30 kW of Billing Demand per month, per kW	No Charge
	For all over 30 kW of Billing Demand per month, per kW	$5.33
III.	Energy Charge	
	For the first 125 kWh per kW Billing Demand per month:	
	For the first 3,000 kWh per month, per kWh	13.1641¢
	For all over 3,000 kWh per month, per kWh	7.1470¢
	For the next 275 kWh per kW Billing Demand per month:	
	For the first 6,000 kWh per month, per kWh	5.9052¢
	For all over 6,000 kWh per month, per kWh	5.6689¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE I
INDUSTRIAL SERVICE

For all over 400 kWh per kW Billing Demand per month:
For all kWh per month, per kWh 5.2634¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 70% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 50% of the Contract Demand
4. 30 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or

OFFICIAL COPY

Sep 26 2023

SCHEDULE I
INDUSTRIAL SERVICE

at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Eighteenth Revised Leaf No. 49
Superseding NC Seventeenth Revised Leaf No. 49

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

AVAILABILITY

Available to the individual customer with a Contract Demand that equals or exceeds 75 kW. Customers with a Contract Demand under 75 kW, served under this Schedule prior to January 1, 2024 under continually effective agreements, may continue to receive service under this Schedule. Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I. Transmission Service
Delivery voltage greater than or equal to 44 kV

A. Basic Customer Charge	$34.00
B. Demand Charges	
On-Peak Demand per month, per kW	$2.56
Mid-Peak Demand	
For the first 1,000 kW per month, per kW	$6.34
For the next 2,000 kW per month, per kW	$6.34
For all over 3,000 kW per month, per kW	$6.34

OFFICIAL COPY
Sep 26 2023

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

Base Demand per month, per kW	$0.51
C. Energy Charges	
On-Peak Energy per month, per kWh	9.1192¢
Off-Peak Energy per month, per kWh	3.8665¢
Discount Energy per month, per kWh	2.4713¢

II. Primary Service

Delivery voltage greater than 600 volts but less than 44 kV where the maximum on-peak actual demand during the months of May – September is as follows: Small - less than or equal to 1,000 kW; Medium - greater than 1,000 kW but less than or equal to 3,000 kW; Large - greater than 3,000 kW

	Small	Medium	Large
A. Basic Customer Charge	$34.00	$34.00	$34.00
B. Demand Charges			
On-Peak Demand per month, per kW	$3.28	$3.28	$3.28
Mid-Peak Demand			
For the first 1,000 kW per month, per kW	$8.23	$8.23	$8.23
For the next 2,000 kW per month, per kW	$7.65	$7.65	$7.65
For all over 3,000 kW per month, per kW	$7.65	$7.65	$7.65
Base Demand per month, per kW	$1.08	$1.08	$1.08
C. Energy Charges			
On-Peak Energy per month, per kWh	9.0079¢	9.0079¢	9.0079¢
Off-Peak Energy per month, per kWh	3.9005¢	3.9005¢	3.9005¢
Discount Energy per month, per kWh	2.5220¢	2.5220¢	2.5220¢

III. Secondary Service

Delivery voltage less than or equal to 600 volts where the maximum on-peak actual demand during the months of May – September is as follows: Small - less than or equal to 1,000 kW; Medium - greater than 1,000 kW but less than or equal to 3,000 kW; Large - greater than 3,000 kW

	Small	Medium	Large
A. Basic Customer Charge	$34.00	$34.00	$34.00
B. Demand Charges			
On-Peak Demand per month, per kW	$3.21	$3.21	$3.21
Mid-Peak Demand			
For the first 1,000 kW per month, per kW	$7.59	$7.59	$7.59
For the next 2,000 kW per month, per kW	$7.06	$7.06	$7.06
For all over 3,000 kW per month, per kW	$5.84	$5.84	$5.84
Base Demand per month, per kW	$1.52	$1.52	$1.52
C. Energy Charges			
On-Peak Energy per month, per kWh	9.3510¢	9.3510¢	9.3510¢
Off-Peak Energy per month, per kWh	4.1425¢	4.1425¢	4.1425¢
Discount Energy per month, per kWh	2.7212¢	2.7212¢	2.7212¢

DETERMINATION OF CUSTOMER SIZE CLASSIFICATION

The demand used to determine the rate classification of the customer as Small, Medium or Large, used in the calculation of the monthly bill, shall be the maximum 30-minute on-peak actual demand registered during the months of May-September within the previous 12 months; however, if the customer was not served on a time of use rate prior to taking service under Schedule OPT-V,

OFFICIAL COPY

Sep 26 2023

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

the customer's maximum integrated 30-minute actual demand for the billing months of May through September shall be used. For new customers, the Company shall determine the size classification based on an appropriate estimate of the maximum on peak actual demand for the months of May through September.

Each year, at the end of the summer season, accounts will be reviewed to determine if a change in classification is necessary based on the most recent months of May through September. If a change in classification is warranted, such change and reclassification shall be effective with the November billing period which follows the summer season. The Company may, at its option, change the rate classification at other times if, upon its own assessment, the Company determines that a change in the load would warrant a change in classification prior to the annual review.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

OFFICIAL COPY

Sep 26 2023

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

CONTRACT DEMAND

The Company will require contracts to specify the maximum demand to be delivered to the Customer which shall be the Contract Demand.

DETERMINATION OF BILLING DEMANDS

I. On-Peak Demand shall be the maximum 30-minute demand in the On-Peak Period during the current billing month.

II. Mid-Peak Demand shall be the maximum 30-minute demand in either the On-Peak or Off-Peak Period during the current billing month.

III. Base Demand shall be the higher of (1) the maximum 30-minute demand during the previous 12 billing months including the current billing month, or (2) 50% of the Contract Demand.

Provision III.(2) related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

AVAILABILITY

Available to non-residential establishments with a minimum Contract Demand of 1,000 kW who qualify for service under the Company's rate schedules LGS, I, OPT-V or HLF.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available for a customer who qualifies for a residential schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, under special terms and conditions expressed in writing in the contract with the Customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in, or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

The Company may cancel this schedule at any time it deems necessary.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

BILL DETERMINATION

The monthly bill shall consist of the following charges:

I. Baseline Charge = sum of charges under the Customer's baseline rate schedule for their Customer Baseline Load
II. Administrative Charge = $200 per month
III. Energy Charge = sum of [(New Load kWh – Reduced Load kWh) x Hourly Energy Price]
IV. Capacity Charge = sum of [(New Load kWh – Reduced Load kWh) x Hourly Capacity Price]
V. Incentive Margin = 0.6 cents per kWh of Net New Load
VI. Incremental Demand Charge = $0.98 per kW of Incremental Demand for Distribution Service
= $0.98 per kW of Incremental Demand for Transmission Service

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

DEFINITIONS

Customer Baseline Load (CBL): The CBL is one full year of hourly loads representing the Customer's energy use and load pattern on their baseline rate schedule. The CBL, as agreed to by the Customer and the Company, is defined in terms of average kWh per hour and max kW, by calendar month and by time-of-use (TOU) period, if applicable. The CBL is based on the Customer's historical usage, where available, and may be adjusted for load responsiveness as described in the Customer Baseline Load provisions below. The Customer is billed or credited at Hourly Prices for actual usage above or below their CBL.

New Load: New Load (kWh) is the amount by which actual kWh exceeds CBL kWh for any hour.

Reduced Load: Reduced Load (kWh) is the amount by which actual kWh is less than CBL kWh for any hour.

Net New Load: Net New Load (kWh) is equal to New Load kWh minus Reduced Load.

Incremental Demand: Incremental Demand (kW) is the amount by which actual kW (maximum 30-minute demand during the current billing month) exceeds CBL kW for the same billing month.

Contract Demand: The maximum demand to be delivered under this Schedule.

CUSTOMER BASELINE LOAD

Initial CBL Establishment:

An initial CBL will be established based on the Customer's load history in the previous 12 months, as determined by the Company and agreed to by the Customer. Adjustments or use of prior load history may be allowed in such cases as permanent removal or addition of equipment; installation of permanent energy efficiency measures; installation of parallel generation; nonrepresentative load patterns from extraordinary events; and plant shutdowns.

CBL Modifications:

CBL's are required to be re-established after four (4) years. Subsequent CBL's will be established using the same process and considerations as the initial CBL for existing customers, in addition to the Load Response Adjustment described below. Customers may request an update to their CBL no earlier than 12 months from their previous CBL. Customers served under Schedule HP before January 1, 2024 under continually effective agreements are not required to re-establish their CBL after four years unless and until the Customer requests an update of their CBL for any reason.

Load Response Adjustment:

For customers on a TOU baseline schedule, CBL modifications may include a Load Response Adjustment, at the Customer's option and requiring at least 48 months of representative load history on Schedule HP. The Adjustment reduces the Customer's CBL for demonstrated load reductions on days when Hourly Capacity Prices are in effect. The Company will calculate the Customer's weighted average Load Response Factor, as a percentage of load, over the previous 48 months. The Customer's On-Peak CBL (kW and kWh) will be reduced by the full Load Response Factor, and the Customer's Off-Peak CBL will be reduced by half of the Load Response Factor. CBL's for Discount hours will not be adjusted.

HOURLY PRICING

Each business day by 4:00 p.m., the Hourly Energy Prices and Hourly Capacity Prices (if applicable) for the 24 hours of the following day will be communicated to the Customer. Prices for weekends and Company holidays will be communicated to the Customer by 4:00 p m. on the last business day before the weekend or holiday. The Customer is responsible for notifying the company if he or she fails to receive the price information.

Hourly Energy Prices are based on the Company's forecasted marginal energy cost in each hour, which includes marginal fuel, variable operating and maintenance expenses, and an adjustment for delivery line losses.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

Hourly Capacity Prices are applicable when the daily forecast indicates a reserve ratio of 1.15 or less, calculated as available generation divided by system demand. The Hourly Capacity Price is zero for all other hours of the year. When applicable, the Hourly Capacity Price is a tiered rate based on the forecasted reserve ratio, reflecting the marginal cost of production capacity.

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider (applicable to Baseline Charge only)
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PROVISION FOR CUSTOMERS OPERATING IN PARALLEL WITH THE COMPANY

Customers served under this Schedule are permitted to operate power generating facilities in parallel with the Company, with a maximum operating capacity of 50 megawatts or less. If a customer has power generating facilities that are not governed by another parallel generation rate schedule or rider, the Standby Charge, Determination of Standby Charges, and Interconnection Facilities Charge provisions of Schedule PG shall be applicable to service under this Schedule. The Incremental Demand Charge does not apply to any incremental demand that is less than Standby Demand. In addition, customers operating a generator in parallel with the Company's system must comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

PROVISION FOR CUSTOMERS SERVED UNDER RIDER IS

For customers served under Rider IS, the Interruptible Contract Demand shall be the same as that contracted for during the baseline period. Further, the calculation of the Effective Interruptible Demand (EID) each month will exclude all energy consumed above the CBL. Hourly Capacity Prices will not apply to Reduced Load above Firm Contract Demand during the hours of interruption periods.

PROVISION FOR CUSTOMERS SERVED UNDER RIDER PS

For customers served under PowerShare Rider PS, the Maximum Curtailable Demand shall be the same as that contracted for during the baseline period, and the PowerShare Firm Demand must be at least 100 kW less than the CBL. Further, the calculation of the Effective Curtailable Demand (ECD) each month will exclude all energy consumed above the CBL. The PowerShare Curtailed Energy Credit will apply to only the load curtailed between the Firm Demand and the smaller of the Forecasted Demand and the CBL, provided the Forecasted Demand is greater than the Firm Demand. Hourly Energy Prices and Hourly Capacity Prices will not apply to Reduced Load above the PowerShare Firm Demand during a Curtailment Period.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

POWER FACTOR ADJUSTMENT

The Company will adjust, for power factor, the kWh for any customer operating in parallel, and may adjust the kWh for any other customer served under this schedule. The power factor adjustment may result in a Power Factor Charge, if applicable, as follows:

Power Factor Charge = Sum of Hourly Load Correction Amounts for all hours in the billing period, but not less than zero,

Where:

Hourly Load Correction Amount = Hourly Load Correction kWh x Hourly Price
Hourly Load Correction kWh = [total hourly kWh x (0.85 ÷ hourly power factor)] – total hourly kWh

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each Customer shall enter into a contract to purchase electricity under this schedule for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter, by giving at least sixty (60) days previous notice of such termination in writing.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE PG
PARALLEL GENERATION

AVAILABILITY

This Schedule is closed to new customers beginning January 1, 2024.

Available only to non-residential establishments which have generating facilities not in excess of eighty (80) megawatts which are interconnected with the Company's system.

Service under this Schedule shall be used solely by the individual contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

The Customer's interconnected power generating facilities may be operated in parallel with the Company's system. Power delivered under this schedule shall not be used for resale or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Power Company, except at the option of the Company, under special terms and conditions expressed in writing in the contract with the Customer.

The Company will provide service to the Customer's net load (total load less Customer generation) and will purchase excess energy from the Customer when the Customer's generation output exceeds the Customer's load, at the rates shown below. Meters for the measurement of excess energy purchased by the Company under this Schedule shall be equipped with compensation to reflect delivery of such energy to the high voltage side of the transformer installation. This Schedule is not available for purchase by the Company of the entire output of the Customer's generator in excess of auxiliary load.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one metering point, at one delivery point, at one of the following approximate voltages where available, upon mutual agreement:

3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

CHARGES		Interconnected To	
		Transmission System	Distribution System
I.	Basic Customer Charge per month	$ 75.00	$ 75.00
II.	On-Peak Demand Charge per On-Peak month, per kW	$17.45	$20.73

OFFICIAL COPY

Sep 26 2023

SCHEDULE PG
PARALLEL GENERATION

III.	Energy Charges		
	a. All On-Peak Energy per month, per kWh	4.9836¢	5.1023¢
	b. All Off-Peak Energy per month, per kWh	4.7316¢	4.8286¢
IV.	Standby Charge per month, per kW	$1.95	$1.95

CREDITS

Credits for excess energy delivered to the Company are set forth in the most recently approved Schedule PP (NC) Variable Rate Energy Credit applicable to the Customer's generation type.

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh charges shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DEFINITION OF ON-PEAK AND OFF-PEAK PERIODS

On-Peak Period Hours	7:00 a.m. – 11:00 p m. Monday – Friday
Off-Peak Period Hours	All other weekday hours and all Saturday and Sunday hours
On-Peak Months	Billing Months of December, January, February, March, June, July, August, September
Off-Peak Months	Billing Months of April, May, October, November

CONTRACT DEMAND

The Company will require contracts to specify a Contract Demand. The Contract Demand shall be the maximum demand to be delivered under normal conditions to the Customer during the on-peak periods of the On-peak Billing months of December through March and June through September.

DETERMINATION OF DEMAND CHARGES

The On-Peak Demand for billing purposes shall be the largest of the following:

1. The maximum 30-minute demand in the On-Peak Period during the current billing month
2. 75% of the Contract Demand
3. 30 kW

OFFICIAL COPY

Sep 26 2023

SCHEDULE PG
PARALLEL GENERATION

Demand charges are applicable for the billing months of December through March and June through September. Demand charges do not apply in the billing months of October, November, April, or May.

Provision 2. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

DETERMINATION OF STANDBY CHARGES

The Company will require each customer who supplies any portion of their electrical requirements by generating facilities to contract for standby, auxiliary, or breakdown service subject to the following provisions. Customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor, as determined by the Company, are exempted from the Standby Charge.

If applicable, the Standby kW will be based on the nameplate capacity in kilowatts of the Customer's generating facility. However, at the option of the Customer, additional metering facilities will be installed, and for billing purposes, the Standby kW will be based on the Customer's maximum 30-minute demand which has been supplied by the Customer's generating facilities during the previous 12 billing months including the current billing month. If additional metering facilities are installed, they will be subject to a monthly Extra Facilities Charge as set forth in the Company's Service Regulations.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Schedule is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit an Interconnection Request which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures, and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

INTERCONNECTION FACILITIES CHARGE

The Customer shall be responsible for providing suitable control and protective devices on his equipment to assure no disturbance to other customers of the Company or to the Company itself, and to protect the Customer's facilities from all loss or damage which could result from operation with the Company's system.

The Company will furnish, install, own, and maintain interconnection facilities as necessary for service under this Schedule including:

- Suitable control and protective devices installed on the Company's equipment to allow operation of the Customer's generating facilities (see exception below);
- Metering facilities equipped to prevent reverse registration for the measurement of service under this Schedule; and
- Any other modification to its system required to serve the Customer under this Schedule as required by the Company.

All such interconnection facilities in excess of those required in the absence of the Customer's generating facilities to provide capacity at the level of the Contract Demand shall be subject to a monthly charge under the Extra Facilities provision of the Company's Service Regulations. The Company reserves the right to install, at any time, facilities necessary for the appropriate measurement of service under this Schedule and to adjust the Interconnection Facilities Charge accordingly, solely at the option of the Company.

OFFICIAL COPY

Sep 26 2023

SCHEDULE PG
PARALLEL GENERATION

POWER FACTOR CORRECTION

When the average monthly power factor of the power required by the Customer from the Company is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the maximum integrated on-peak demand in kilowatts or the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor and to adjust the Interconnection Facilities Charge accordingly, solely at the option of the Company.

MINIMUM BILL

Beginning in the 13th full month for new service installations, the minimum monthly bill shall be calculated on the Rate above including the Basic Customer Charge, On-Peak Demand Charge, Energy Charge, Standby Charge, etc., but the Demand Charge component billed during the On-Peak months shall be based on not less than 75% of the Contract Demand. If the Customer's demand measured during normal operating conditions exceeds the Contract Demand, the Company may, at any time, establish the minimum based on the maximum 30-minute demand in the previous 12 billing months including the current billing month.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

Credit billings to the Customer will be credited to the Customer's account, or, at the option of the Customer and upon ten (10) days' prior written notice, shall be payable to the Customer within fifteen (15) days of the date of the bill.

CONTRACT PERIOD

Each customer shall enter into a contract for a minimum original term of five (5) years and thereafter until terminated by giving at least thirty (30) months' previous notice of such termination in writing, but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances.

The Company reserves the right to terminate the Customer's contract under this Schedule at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Schedule or operates his generating facilities in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Schedule, the Customer will be required to pay the Company for the costs due to such early cancellation.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGSTC
SMALL GENERAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

AVAILABILITY

Available to the individual customer with a demand of 75 kilowatts (kW) or less. If the customer's measured demand exceeds 75 kW during any month, the customer will be served under Schedule LGS.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the Company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$21.00
II.	Demand Charges	
	On-Peak Demand* per month, per kW	$4.06
	Max Demand* per month, per kW	$1.62

* For all over 30 kW of Billing Demand. No charge for first 30 kW of Billing Demand.

III.	Energy Charges	
	Critical Peak Energy per month, per kWh	40.7511¢
	On-Peak Energy per month, per kWh	25.8573¢
	Off-Peak Energy per month, per kWh	11.3464¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGSTC
SMALL GENERAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

Discount Energy per month, per kWh	7.8367¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to each of the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF CRITICAL PEAK PRICING

The Company will call up to 20 Critical Peak Days per calendar year. The number of Critical Peak Days permitted annually may be exceeded in the event of a system emergency that is expected to place the Company's ability to provide reliable service to customers at risk.

During Company-designated Critical Peak Days, On-Peak Hours will become Critical Peak Hours. The Company may shift the Critical Peak Hours one hour earlier or later than the regular On-Peak Hours to provide flexibility for system operations; however,

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGSTC
SMALL GENERAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

the number of Critical Peak Hours per day will remain the same as the number of On-Peak Hours that would have otherwise occurred. Any shift in Critical Peak Hours will be reflected in the customer notification.

NOTIFICATION OF CRITICAL PEAK PRICING

The Company will notify customers of Critical Peak Days and applicable Critical Peak Hours by 4:00 pm on the prior day. Customers may elect to receive notifications by phone, email and/or text message. The Company will use its best efforts to notify customers by 4:00 pm on the prior day; however, notification of Critical Peak Days may occur at any time, but no later than one hour prior to the Critical Peak period. Receipt of Critical Peak Pricing notification is the Customer's responsibility.

DETERMINATION OF BILLING DEMANDS

I. On-Peak Demand shall be the maximum 30-minute demand in the On-Peak Period during the current billing month.

II. Max Demand shall be the maximum 30-minute demand during the current billing month.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85%, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85% and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least 60 days previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

GENERAL PROVISIONS

Participating customers must provide and maintain internet accessibility, an email address, and/or means to receive phone calls or text messages, as appropriate, at the Customer's expense in order for the Company to provide notification for Critical Peak Pricing.

OFFICIAL COPY
Sep 26 2023

SCHEDULE S
UNMETERED SIGNS

AVAILABILITY

This schedule is closed and not available to new customers or locations not served on this schedule prior to January 1, 2008, in the former Duke Energy Carolinas Nantahala Area and shall remain in effect for customers under continually effective agreements made prior to January 1, 2008.

This Schedule is available for unmetered service to a sign where the customer provides the lights. This Schedule is for "entrance type" signage on the property owned or controlled by the commercial and/or industrial customer in whose name the bill is rendered. Duke Energy Carolinas must be providing general area lighting and secondary wire must be available at the sign location such that no additional transformation is required. The Company and customer must agree in writing to the estimated monthly kWh usage.

MONTHLY RATE

Basic Customer Charge per month	$7.00 per sign
Energy Charge	8.0222 cents per contracted kWh used

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. The Company has the right to suspend service for non-payment of bills in accordance with Rule R12-8 of the Rules and Regulations of the North Carolina Utilities Commission. In addition, any bill not paid on or before the expiration of 25 days from the date of the bill is subject to an additional charge of one percent (1%) per month as provided in Rule R12-9 of the Rules and Regulations of the North Carolina Utilities Commission.

CONTRACT TERM

Service hereunder shall be for a period of not less than one year, except when, in the opinion of the Company, contracts of shorter duration are justified by particular circumstances.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

AVAILABILITY

Available to the individual customer for lighting of outdoor areas at locations on the Company's distribution system. Service under this Schedule may be withheld or discontinued at the option of the Company.

RATE

All-night outdoor lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
		High Pressure Sodium Vapor*			
4,000	21	Post Top (2)	NA	NA	$25.62
9,500	47	Suburban (3)	$15.77	$22.92	$27.54
9,500	47	Urban	$17.78	$24.93	$29.55
13,000	56	Suburban (4) (in suitable mercury fixture)	$17.27	NA	NA
16,000	70	Urban	$19.24	$26.39	$31.01
27,500	104	Urban	$22.77	$29.92	$34.54
50,000	156	Urban	$27.75	$34.90	$39.52
16,000	70	Floodlight	$23.80	$30.95	$35.57
27,500	104	Floodlight	$28.05	$35.20	$39.82
50,000	156	Floodlight	$31.55	$38.70	$43.32
		Metal Halide*			
9,000	43	Urban	$20.42	$27.57	$32.19
40,000	155	Urban	$33.00	$40.15	$44.77
78,000	295	Area	$76.24	$83.39	$88.01
110,000	395	Area	$104.23	$111.38	$116.00
40,000	155	Floodlight	$35.02	$42.17	$46.79
34,000	180	Floodlight (10)	$32.85	$40.00	NA
34,000	180	Floodlight (10)	NA	$43.82	$44.62
110,000	217	Floodlight (half night) (10)	$47.79	$54.94	$59.56
110,000	435	Floodlight (10)	NA	$87.63	NA
110,000	435	Floodlight (10)	$81.41	$88.56	$93.18
		Mercury Vapor*			
4,000	41	Suburban (7)	$14.19	NA	NA
4,000	41	Post Top (2)	$13.04 (5)	NA	$24.81 (6)
4,000	41	Post Top (7)	$17.22	NA	NA
7,500	75	Suburban (3)	$14.27	$21.42	$26.04
7,500	75	Urban (6)	$16.07	$23.22	$27.84
7,500	75	Post Top (7)	$24.53	NA	NA
20,000	152	Urban (6)	$22.10	$29.25	$33.87
		Light Emitting Diode (8) (9)			
3,700	11	Area 30 watts	$12.88	$20.03	$24.65
4,500	14	Area 40 watts	$13.43	$20.58	$25.20
5,500	18	Area 50 watts	$13.82	$20.97	$25.59
8,000	25	Area 70 watts	$14.15	$21.30	$25.92
15,500	40	Area 110 watts	$17.20	$24.35	$28.97
20,000	54	Area 150 watts	$19.19	$26.34	$30.96

OFFICIAL COPY
Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
30,500	79	Area 220 watts	$22.56	$29.71	$34.33
36,000	101	Area 280 watts	$25.75	$32.90	$37.52
44,500	151	Area 420 watts	$54.34	$61.49	$66.11
57,000	179	Area 530 watts	$60.97	$68.12	$72.74
16,500	47	Floodlight 130 watts	$29.43	$36.58	$41.20
33,500	48	Floodlight 260 watts (half night) (10)	$61.91	$69.06	$73.68
33,500	95	Floodlight 260 watts	$63.71	$70.86	$75.48

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture failure and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(2) Luminaire is not available for the lighting of streets, roadways, and other vehicle thoroughfares.

(3) Closed to new installations on or after July 1, 2005.

(4) Closed to new installations on or after September 15, 1985.

(5) Closed to new installations on or after November 12, 1991.

(6) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(7) Closed to new installations.

(8) Light Emitting Diode (LED) luminaires are available for new installations after January 28, 2014, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires and for customer requested replacements of existing high pressure sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(9) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2019. The Company will replace post top mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2024.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) Additional monthly charge for the underground conductor system: $0.07 for each increment of 10 feet, or less, over 150 feet per pole.

(2) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(3) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

OFFICIAL COPY
Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

(4) An underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, the charges under provision (1) of this section will apply in addition to the $4.62 charge.

(5) Additional monthly charge for the underground conductor system for existing pole installations in-service prior to November 12, 1991:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) For non-floodlight luminaires, color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $1.01 per lamp per month. For non-floodlight luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new non-flood luminaires on or after October 1, 2007.

(2) All non-floodlight luminaires will be installed on standard 30-foot wood poles. At Customer request, and for an additional charge, all non-floodlight luminaires can be installed on wood poles larger than the standard 30-foot, if the location permits the use of bucket-type equipment for mounting and servicing: 35-foot pole for 30 cents per month, or 40-foot pole for 41 cents per month.

(3) All luminaires installed on wood poles longer than 40-feet, or structures other than standard wood poles, can be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(4) All non-floodlight luminaires, with brackets longer than 30 inches but not longer than 20 feet, can be installed where use of bucket-type equipment is permitted for an extra charge of 71 cents per month per bracket.

(5) Where two or more luminaires were installed for service before November 12, 1991 on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(6) Luminaire locations shall be designated by the Customer and where only an extension of secondary facilities is required from the nearest distribution source, the rate per luminaire as stated above shall apply. When the number of required poles exceeds the number of luminaires requested, a monthly charge not less than $1.72 per standard wood pole shall

OFFICIAL COPY

Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

apply for luminaires installed for service before November 12, 1991. A monthly charge of $7.15 per standard wood pole shall apply for luminaires installed for service after November 12, 1991. When any installation requires an extension of primary facilities solely to serve the luminaires, an additional monthly charge equal to 1.0% of the estimated cost of the primary extension shall apply. Should any installation require guying of secondary facilities, a charge of 61 cents per month per guy shall apply.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires installed by the Company as standard, post top and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated by the Company as decorative or nonstandard, and for all standard luminaires mounted on supports other than standard wood poles or other non-standard supports, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

AVAILABILITY

Available for the purpose of lighting streets, highways, parks, and other public places for Municipal, County, State, and Federal Governments, at locations inside or outside municipal limits on the Company's distribution system. This Schedule is not available for service to non-governmental entities.

RATE

All-night street lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		High Pressure Sodium Vapor*			
9,500	47	Suburban (1)	$10.32	NA	NA
9,500	47	Urban	$11.81	NA	NA
13,000	56	Suburban (2) (in suitable mercury fixture)	$11.56	NA	NA
16,000	70	Urban	$12.89	NA	NA
27,500	104	Urban	$15.47	NA	NA
38,000	136	Urban (3) (in suitable mercury fixture)	$16.82	NA	NA
50,000	156	Urban	$19.19	NA	NA
140,000	391	Urban (installed on 55-foot wood pole)	$39.27	NA	NA
		Metal Halide*			
9,000	43	Urban	$18.80	NA	NA
40,000	155	Urban	$23.15	NA	NA
78,000	295	Area	$70.26	NA	NA
		Mercury Vapor*			
4,000	41	Suburban (1)	$6.80	NA	NA
7,500	75	Suburban (1)	$9.22	NA	NA
7,500	75	Urban (4)	$10.59	NA	NA
20,000	152	Urban (4)	$15.03	NA	NA
55,000	393	Urban (4)	$31.15	NA	NA
		Incandescent (5)			
	63	Suburban	$6.67	NA	NA
	63	Post Top	$2.50	NA	NA
		Light Emitting Diode (6) (7)			
3,700	11	Area 30 watts	$10.29	$17.44	$22.06
4,500	14	Area 40 watts	$10.75	$17.90	$22.52
5,500	18	Area 50 watts	$11.10	$18.25	$22.87
8,000	25	Area 70 watts	$11.35	$18.50	$23.12
15,500	40	Area 110 watts	$13.80	$20.95	$25.57
20,000	54	Area 150 watts	$15.40	$22.55	$27.17
30,500	79	Area 220 watts	$18.09	$25.24	$29.86
36,000	101	Area 280 watts	$20.67	$27.82	$32.44
44,500	151	Area 420 watts	$43.58	$50.73	$55.35
57,000	179	Area 530 watts	$62.38	$69.53	$74.15

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		Floodlight Service*			
16,000	70	High Pressure Sodium Vapor	$22.86	$30.01	$34.63
27,500	104	High Pressure Sodium Vapor	$26.94	$34.09	$38.71
50,000	156	High Pressure Sodium Vapor	$30.31	$37.46	$42.08
40,000	155	Metal Halide	$33.64	$40.79	$45.41
34,000	180	Metal Halide (10)	$31.56	$38.71	NA
34,000	180	Metal Halide (10)	NA	$42.53	$43.33
110,000	217	Metal Halide (half night) (10)	$45.91	$53.06	$57.68
110,000	435	Metal Halide (10)	NA	$84.43	NA
110.000	435	Metal Halide (10)	$78.21	$85.36	$89.98
15,000	47	LED 130 watts	$30.12	$37.27	$41.89
30,000	48	LED 260 watts (half night) (10)	$63.34	$70.49	$75.11
30,000	95	LED 260 watts	$65.18	$72.33	$76.95

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture repair and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) Closed to new installations on or after July 1, 2005.

(2) Closed to new installations on or after February 3, 1987.

(3) Closed to new installations on or after November 12, 1991.

(4) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(5) Closed to new installations.

(6) Light Emitting Diode (LED) luminaires are available for new installations, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires, and for customer requested replacements of existing sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(7) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 6 above beginning January 1, 2020 through December 31, 2023.

(8) "Existing Pole", "New Pole" and/or "New Pole Served Underground" rates are applicable for existing pole, new pole and/or new pole served underground installations on or after September 1, 2018. After this date, the "Existing Pole" rates are available only for luminaries attached to poles which are not installed solely to support the luminaire.

(9) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) For non-floodlight underground facilities installed prior to September 1, 2018 or for floodlight underground facilities installed prior to November 12, 1991, the additional monthly charge for the underground conductor system:

OFFICIAL COPY

Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

(2) For non-floodlight underground facilities installed on or after September 1, 2018 or for floodlight underground facilities installed on or after November 12, 1991, an underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, a charge of $0.07 for each increment of 10 feet, or less, over 150 feet will apply in addition to the $4.62 charge. This charge is also applicable to "New Pole Served Underground" rates over 150 feet per pole.

(3) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(4) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) The installation of luminaires at the standard monthly rates above includes Company-designated standard wood poles.

(a) Wood poles or structures other than Company-designated standard wood poles, may be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(b) The Company's standard metal street lighting pole is closed as of January 1, 2010. An extra monthly charge of $5.41 per month, per pole applies to installations prior to January 1, 2010.

(c) The Company's standard metal mast-arm pole may be installed for an extra monthly charge of $5.41 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole, per month, per pole applies to installations prior to January 1, 2010. The standard metal mast-arm pole without a luminaire is closed as of January 1, 2010. A monthly charge of $7.12 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole applies to installations prior to January 1, 2010.

(d) For non-floodlight luminaires, brackets longer than 12 feet, but not longer than 20 feet can be installed for an additional monthly charge of $4.36.

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

(2) For non-floodlight luminaires installed outside municipal limits prior to January 1, 2010, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. For floodlight luminaires installed prior to November 12, 1991, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. A monthly charge of $7.15 per pole shall be made for such excess number of poles installed for service on or after January 1, 2010 for non-floodlight luminaries or on or after November 12, 1991 for floodlight luminaires in or outside municipal limits.

(3) When the installation requested requires a primary extension solely to serve the luminaires, an additional monthly charge of 1.0% of the estimated cost of the primary extension will be made. For poles to support non-floodlight luminaires installed outside municipal limits prior to January 1, 2010 and for poles to support floodlight luminaires, should the installation of secondary facilities include downguys or spanguys, a charge of $0.61 per month per guy shall be made.

(4) Standard wood poles installed prior to January 1, 2010 may be provided for $1.72 per pole per month plus $.61 per month per guy for downguys or spanguys, if needed, when provided to solely support traffic signals. Standard wood poles installed January 1, 2010 and after, may be provided for $7.15 per pole per month when provided solely to support traffic signals.

(5) Color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $0.71 per lamp per month. For luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new luminaires on or after October 1, 2007.

(6) For non-floodlight luminaires installed prior to January 1, 2010, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72. For floodlight luminaires installed prior to November 12, 1991, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(7) For non-floodlight LED and floodlight luminaires, the Customer may, at its option, prepay the initial capital cost of poles and underground wiring, in which case the monthly rate per luminaire shall be the Existing Pole Rate shown above.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires designated as standard by the Company and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated as decorative or non-standard by the Company, and for all standard luminaires mounted on supports other than standard wood poles, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

SCHEDULE NL
NONSTANDARD LIGHTING SERVICE
(PILOT)

AVAILABILITY

This Schedule is closed and not available for service to new installations after August 1, 2018 but remains in effect for continually effective agreements under this Schedule. Available, at the Company's option, for outdoor lighting applications not offered under one of the Company's standard lighting tariffs which may include new technologies. The type of luminaire(s) and services provided will be included in the contract with the Customer. This schedule is available as a pilot.

RATE

The monthly rate for this service will be determined as follows:

Monthly Services Payment = Levelized Capital Cost + Expenses + [Energy x 4.9797¢ per kWh]

Where:

Levelized Capital Cost is equal to the present value of all estimated capital related cash flows for a period corresponding to the time of engineering, design and installation of equipment through the term of the contract, including the cost of cutting and replacing of pavement in excess of one per luminaire, adjusted to a pre-tax amount and converted to a uniform monthly payment for the term of the contract. The estimated capital cash flows shall include installed cost of equipment, contingency allowances, property taxes, salvage value, adjustment to reflect additional supporting investment of general plant nature, and income tax impacts.

Expenses shall equal the present value of estimated expenses associated with the support and maintenance of the equipment, adjusted to a pre-tax amount and converted to a uniform monthly payment for the term of the contract. The estimated expenses shall include administrative and general expenses, expenses for labor and materials related to operations and maintenance, third party expenses for operations and maintenance, warranties, insurance, annual costs associated with working capital, other costs related to the operation and support of the installation, and income tax impacts.

The after tax cost of capital from the Company's most recent general rate case will be used to convert present values to uniform monthly payments.

Energy is the equal to the estimated average kilowatt hours used per month under this agreement.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

OFFICIAL COPY

Sep 26 2023

SCHEDULE NL
NONSTANDARD LIGHTING SERVICE
(PILOT)

OPTIONAL PREPAYMENT OF LEVELIZED CAPITAL COST

The Customer may, at its option, prepay the Levelized Capital Cost, in which case the monthly rate per luminaire shall be the Expenses plus Energy charges. The prepayment amount shall be the net present value of the after-tax cash flow of the Levelized Capital Cost using the current after-tax cost of capital.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract for Nonstandard Lighting Service from the Company for an original term of five (5) years, after which agreement terminates unless the customer enters into a new five (5) year contract for Nonstandard Lighting Service. In the event of early termination of an Agreement under this program, the Customer may be required to pay the Company a termination fee equal to the net present value of the Monthly Service Fee, less the Energy Charge, for the remainder of the term of the contract. However, if any successor customer has requested service supplied under this schedule prior to the effective date of the termination, the termination charge will be waived or reduced based on the contract of the successor customer.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

RIDER NM
NET METERING

AVAILABILTY

Available to residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, micro-hydro or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's distribution system.

This Rider is not available to new nonresidential applications on and after January 1, 2024. Nonresidential customers may continue to receive service under this Rider until December 31, 2033 and then must transition to receive service under Rider NSC or another applicable rider.

GENERAL PROVISIONS

1. To qualify for service under this Rider, a residential Customer may be served on any residential rate schedule. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.
2. To qualify for service under this Rider, a nonresidential Customer may be served under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the Customer's Contract Demand or 1000 kW, whichever is less.
3. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kilowatt hours supplied by the Company, plus any demand or other charges under the applicable rate schedule. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity in kilowatt hours supplied by the utility during a monthly billing period, the Customer-Generator shall be credited for the excess kilowatt hours generated during that billing period. Charges or credits will be determined using the appropriate energy rates of the applicable rate schedule as further outlined in the RATE paragraph below.
4. All other provisions of the applicable rate schedule including, but not limited to, Determination of Billing Demand, Determination of On-Peak, Off-Peak, and Discount Hours, Contract Demand, Approved Fuel Charge Adjustments, etc. will apply to service supplied under this Rider.
5. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.
6. Customers served under this Rider are not eligible to participate in NC GreenPower.
7. For any customer receiving service under a non-time of use demand rate schedule, any renewable energy credits (RECs) shall be retained by the Company.

RATE

The rate shall be based on the applicable rate schedule, and the monthly bill shall be determined as follows:

I. The Basic Customer Charge shall be the Basic Customer Charge from the applicable rate schedule.

II. The Demand Charge shall be determined from the applicable schedule as appropriate.

III. Energy Charges (or Credits) shall be based on the net kilowatt hours purchased from or delivered to the Company for the bill month. For any bill month during which the Energy Charges are a net credit, the respective Energy Charges for the month shall be zero. Any Energy Credits shall carry forward on following month's bill. If the customer is on a time of use rate, the Energy Credits shall carry forward by first applying excess On-Peak kWh against On-Peak kWh charges and excess Off-peak kWh against Off-peak kWh charges, then applying any remaining On-Peak kWh against any remaining Off-Peak kWh charges. Effective with the seasonal rate change each year, any accrued credit not used to

OFFICIAL COPY

Sep 26 2023

RIDER NM
NET METERING

reduce billed kWh usage shall be reset to zero each April 30th. Excess energy delivered prior to April 30th will only be used to reduce usage by Company prior to April 30th. Credits shall not offset the Basic Customer Charge or the Demand Charge.

IV. A Standby Charge of $1.95 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Basic Customer Charge plus, if applicable, any of the following charges: Demand Charges, the Standby Charge, and the Extra Facilities Charge.

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt demand delivered by the Company to the Customer, and to measure the net kilowatt-hours purchased by the Customer or delivered to the Company. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

OFFICIAL COPY

Sep 26 2023

RIDER NM
NET METERING

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY
Sep 26 2023

RIDER SCG
SMALL CUSTOMER GENERATOR

AVAILABILITY

Available, at the Company's option, for residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, hydroelectric or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point interconnected with and operated in parallel with the Company's system. The Customer's generation system will be used to offset the Customer's energy and if applicable, demand requirements, supplied by the Company to the Customer. The Customer will be billed for all energy purchased from the Company under the applicable rate schedule and the excess energy will be purchased by the Company at the credit rate listed below. The Company reserves the right to limit the number of Customers allowed to interconnect generation systems and equipment on an individual electric circuit or substation. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.

This Rider is available to Customers who install electric energy systems and contract with the Company for service under this Rider subject to the following conditions:

1. Residential Customers

   To qualify for service under this Rider, a residential Customer must be receiving service under one of the Company's residential service schedules. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.

2. Nonresidential Customers

   To qualify for service under this Rider, a nonresidential Customer must be receiving service under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed Customer's Contract Demand or 1000 kW, whichever is less. The Contract Demand shall be the maximum demand to be delivered under normal conditions to the Customer excluding output from the Customer's installed electric energy system.

RATE

I. The applicable rate schedule for energy delivered to the Customer, and demand if applicable, shall be the rate schedule for which the Customer qualifies and / or selects for the Customer's class of service.

II. The following charges and credits will be added to the Customer's bill calculated under Paragraph I. above:

CHARGES

Supplemental Basic Customer Charge per month:	$3.92
Standby Charge per month, if applicable:	$1.95
(Refer to Determination of Standby Charges section below)	

CREDITS

The Customer will receive credits for all excess energy delivered by the Customer to the Company equal to the most recently approved Schedule PP (NC) Variable Rate Energy Credit applicable to the Customer's generation type (Interconnected to the Distribution System). Unless otherwise specified in the Company's contract with the Customer, payment of credits under this Schedule do not convey to the Company the right to renewable energy credits (RECS) associated with the energy delivered to the Company by the Customer.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Minimum Bill calculated from the Rate Schedule with which this Rider is used, plus the Supplemental Basic Customer Charge, plus, if applicable, the Standby Charge and the monthly Extra Facilities charge.

OFFICIAL COPY
Sep 26 2023

RIDER SCG
SMALL CUSTOMER GENERATOR

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt-hours delivered by the Company to the Customer, and if applicable, the kilowatt demand. The Company will also furnish, install, own and maintain metering equipment to measure the kilowatt-hours delivered from the Customer to the Company. The Customer's service will be metered with a single, bi-directional meter, which records independently the flow of electricity in each direction through the meter. The Company may require a contribution in aid of construction if it is required to provide to the Customer a metering installation that is deemed to be economically infeasible. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

DETERMINATION OF STANDBY CHARGES

The Standby Charge shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

DEFINITION OF "NAMEPLATE RATING"

The term "Nameplate Rating" shall mean the maximum electrical output capability of the Customer's generation system and equipment at any time.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor and to impose an Extra Facilities Charge accordingly, solely at the option of the Company. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 75
Superseding NC Thirteenth Revised Leaf No. 75

RIDER SCG
SMALL CUSTOMER GENERATOR

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing. The Company reserves the right to offer or require a contract for a longer original term of years, as specified in the individual contract with the customer, when justified by the circumstances.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY

Sep 26 2023

RIDER NSC
NON-RESIDENTIAL SOLAR CHOICE

AVAILABILITY

Available to non-residential Customer-Generators receiving concurrent service from the Company, on a metered rate schedule, except as indicated under General Provisions. A Customer-Generator is an owner, operator, or lessee of an electric generation unit that generates or discharges electricity from a renewable energy resource, including an energy storage device configured to receive electrical charge solely from an onsite renewable energy resource. The renewable net energy metered (NEM) generation, which may include a solar photovoltaic; solar thermal; wind powered; hydroelectric; geothermal; tidal or wave energy; recycling resource; hydrogen fueled or combined heat and power derived from renewable resources; or biomass fueled generation source of energy, must be installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's system. The generation must be located at a single premise owned, operated, leased or otherwise controlled by the Customer. The system may either be owned by the Customer or by a lessor and leased to the Customer.

Customers applying for service under this Rider must be served under an approved general service or industrial rate schedule that includes time-of-use (TOU) periods.

If Customer receives electric service under a schedule other than a TOU schedule with demand rates, any renewable energy credit or "green tags" shall be provided by Customer at no cost to Company. If service is received under a time-of-use schedule with demand rates, all renewable energy credits or "green tags" shall be retained solely by Customer.

GENERAL PROVISIONS

1. To qualify for service under this Rider, the Customer must comply with all applicable interconnection standards and must provide, in writing, the Nameplate Capacity of the Customer's installed renewable generation system. Any subsequent change to the Nameplate Capacity must be provided by Customer to Company in writing by no later than 60 days following the change.

2. To qualify for service under this Rider, the Customer must not be served on another parallel generation rate schedule or rider. For Customer-owned facilities, the Nameplate Capacity of Customer's installed renewable generation system and equipment must not exceed the lesser of 5,000 kW AC or 100% of the Customer's contract demand which shall approximate the Customer's maximum expected demand. For leased facilities, the Nameplate Capacity of Customer's installed renewable generation system and equipment must not exceed the lesser of 1,000 kW AC or 100% of the Customer's contract demand which shall approximate the Customer's maximum expected demand.

3. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.

4. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kWh supplied by the Company plus any demand or other charges under the applicable rate schedule or riders.

5. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity supplied by the Company during a monthly billing period, the Customer-Generator shall be credited for the net excess energy in kWh generated during that billing period at the Monthly Credit rate below.

6. Net electricity will be calculated for each TOU period, in descending order by price. Any net excess energy from one TOU period will be applied to the next TOU period, as applicable. After net electricity has been calculated for all TOU periods, the Customer-Generator shall be credited for any remaining net excess energy at the Monthly Credit rate below.

7. In the event the Company determines that it is necessary to increase the capacity of facilities beyond those required to serve the Customer's electrical requirement or to install a dedicated transformer or other equipment to protect the safety and adequacy of electric service provided to other customers, the Customer shall pay the estimated cost of the required transformer or other equipment above the estimated cost which the Company would otherwise have normally incurred to serve the Customer's electrical requirement, in advance of receiving service under this Rider.

OFFICIAL COPY

Sep 26 2023

RIDER NSC
NON-RESIDENTIAL SOLAR CHOICE

8. A Standby Charge of $1.95 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a TOU demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

RATE

All provisions of the applicable schedule and other applicable riders will apply to service supplied under this Rider, except as modified herein. In addition to all charges in the applicable rate schedule for Customer's net electrical usage, the following credit will be applied to net electricity delivered to the grid by Customer's renewable generation as specified under General Provisions:

Monthly Credit for Net Excess Energy, per kWh	$0.0335

METERING REQUIREMENTS

The Company will furnish, install, own and maintain a billing meter to measure the kW demand delivered by the Company to the Customer, and to measure the net kWh purchased by the Customer or delivered to the Company. For renewable generation capacity of 20 kW AC or less, the billing meter will be a single, bi-directional meter which records independently the net flow of electricity in each direction through the meter, unless Customer's overall electrical requirement merits a different meter. For larger renewable generation capacities, the Company may elect to require two meters with 30-minute interval capabilities to separately record Customer's electrical consumption and the total generator output, which will be electronically netted for billing. The Customer grants the Company the right to install, operate, and monitor special equipment to measure the Customer's generating system output, or any part thereof, and to obtain any other data necessary to determine the operating characteristics and effects of the installation. All metering shall be at a location that is readily accessible by the Company.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities Charge shall not apply.

POWER FACTOR

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kWh, as appropriate. The Company reserves the right to install facilities

OFFICIAL COPY

Sep 26 2023

RIDER NSC
NON-RESIDENTIAL SOLAR CHOICE

necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generation system is less than 20 kW and uses an inverter.

CONTRACT PERIOD

The Customer shall enter into a contract for service under this Rider for a minimum original term of one (1) year, and the contract shall automatically renew thereafter, except that either party may terminate the contract after one year by giving at least 60 days prior notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the renewable generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early termination, in accordance with the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
Rate Year 3 North Carolina Tariffs Proposed for Change

LEAF NO.	DESCRIPTION	REVISION NO.

I. **RETAIL CLASSIFICATION**

A. **RESIDENTIAL RATE SCHEDULES**

11	RS Residential Service	55
13	RE Residential Service Electric Water Heating and Space Conditioning	56
14	ES Residential Service Energy Star	39
15	RT Residential Service Time Of Use	55
136	RSTC Residential Service: Time of Use with Critical Peak Price	4
137	RETC Residential Service for All-Electric Customers: Time of Use with Critical Peak Pricing	4

B. **GENERAL SERVICE AND INDUSTRIAL RATE SCHEDULES**

21	SGS Small General Service	33
26	BC Building Construction	53
29	LGS Large General Service	32
31	HLF High Load Factor	Orig.
38	TS Traffic Signal Service	52
41	I Industrial Service	60
49	OPT-V Optional Power Service Time-of-Use with Voltage Differential	18
54	HP Hourly Pricing	37
55	PG Parallel Generation	65
138	SGSTC Small General Service: Time of Use with Critical Peak Pricing	4
204	S Unmetered Signs[1]	32

C. **LIGHTING RATE SCHEDULES**

32	OL Outdoor Lighting	61
34	PL Street and Public Lighting Service	59
35	NL Nonstandard Lighting (Pilot)[1]	28

D. **RETAIL RIDERS**

		IN CONJUNCTION WITH:	
72	NM Net Metering Rider[2]	All Retail Schedules	14
75	SCG Small Customer Generator Rider	All Retail Schedules	14
139	NSC Non-Residential Solar Choice Rider	General Service and Industrial Schedules	Orig.

[1]Not available for new applications
[2]Not available for new applications on and after January 1, 2024

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Fifth Revised Leaf No. 11
Superseding NC Fifty-Fourth Revised Leaf No. 11

SCHEDULE RS
RESIDENTIAL SERVICE

AVAILABILITY

Available to residential customers in residences, condominiums, manufactured homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge per month	$ 14.00
II.	Energy Charge per month, per kWh*	11.6417¢

*For customers receiving Supplemental Security Income (SSI) under the program administered by the Social Security Administration and who are blind, disabled, or 65 years of age or over, the rate for the first 350 kWh used per month shall be 10.4775 cents per kWh. This is an experimental rate authorized by the North Carolina Utilities Commission on August 31, 1978. The present maximum discount to customers being served under this experiment is 4.07 per month.

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

OFFICIAL COPY

Sep 26 2023

SCHEDULE RS
RESIDENTIAL SERVICE

Leaf No. 144	CAR Rider
Leaf No. 147	RDM Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RE
RESIDENTIAL SERVICE
ELECTRIC WATER HEATING AND SPACE CONDITIONING

AVAILABILITY

Available to residential customers in residences, condominiums, manufactured homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation. In addition, all energy required for all water heating and environmental space conditioning must be supplied electrically, and all electric energy used in such dwelling must be recorded through a single meter. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

To qualify for service under this Schedule, the environmental space conditioning system and a separate electric water heater must permanently be installed in accordance with sound engineering practices and the manufacturer's recommendations, and both shall meet the requirements below.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge per month	$14.00
II.	Energy Charge	
	For the billing months of May – September	
	For all kWh per month, per kWh*	11.4531¢
	For the billing months of October – April	
	For the first 800 kWh per month, per kWh*	11.4531¢
	For all over 800 kWh per month, per kWh	10.3078¢

*For customers receiving Supplemental Security Income (SSI) under the program administered by the Social Security Administration and who are blind, disabled, or 65 years of age or over, the rate for the first 350 kWh used per month shall be 10.3078 cents per kWh. This is an experimental rate authorized by the North Carolina Utilities Commission on August 31, 1978. The present maximum discount to customers being served under this experiment is $4.01 per month.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RE
RESIDENTIAL SERVICE
ELECTRIC WATER HEATING AND SPACE CONDITIONING

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 144	CAR Rider
Leaf No. 147	RDM Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

REQUIREMENTS

An electric water heater meeting the specifications set forth below must be installed and used to supply the entire water heating requirements, except that which may be supplied by non-fossil sources such as solar.

1. Water heaters shall be of the automatic insulated storage type, of not less than 30-gallon capacity and may be equipped with only a lower element or with a lower element and an upper element.
2. Water heaters having only a lower element may have wattages up to but not exceeding the wattages shown below for various tank capacities.

Tank Capacity in Gallons	Maximum Single Element Wattage
30 – 49	4,500
50 – 119	5,500
120 and larger	Special approval

3. The total wattage of the elements in a water heater with a lower element and an upper element may not exceed the specific wattages above unless the water heater has interlocking thermostats to prevent simultaneous operation of the two elements such that the maximum wattage is not exceeded during operation.

Electric space conditioning meeting the specifications set forth below must be installed and used to supply the entire space conditioning requirements, except that which may be supplied by supplemental non-fossil sources such as solar.

1. Room-type systems shall be controlled by individual room thermostats.
2. Heat pumps shall be controlled by two-stage heating thermostats, the first stage controlling compressor operation and the second stage controlling all auxiliary resistance heaters. Auxiliary heaters shall be limited to 48 amps (11.5 KW at 240 volts) each and shall be switched so that the energizing of each successive heater is controlled by a separate adjustable outdoor thermostat. A manual switch for by-pass of the first stage and the interlock of the second stage of the heating thermostat will be permitted.
3. Excess heating capacity (15% more than total calculated heat losses) may be disconnected at the option of the Company.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RE
RESIDENTIAL SERVICE
ELECTRIC WATER HEATING AND SPACE CONDITIONING

4. Total heat loss shall not exceed 30 BTUH (at 60 degrees F. temperature differential) per square foot of net heated area. Duke Power's procedure for calculating heat loss or the current edition of ASHRAE (American Society of Heating, Refrigerating, and Air Conditioning Engineers) Guide shall be the source for heat loss calculations. Duct or pipe losses shall be included in the computation of total heat losses.

Billing of service under this schedule will begin after the Customer has notified the Company that qualifications have been met. The Company at all reasonable times shall have the right to periodically inspect the premises of the Customer for compliance with the requirements, subsequent to the initial inspection.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Thirty-Ninth Revised Leaf No. 14
Superseding NC Thirty-Eighth Revised Leaf No. 14

SCHEDULE ES
RESIDENTIAL SERVICE, ENERGY STAR

AVAILABILITY

Available to residential customers in residences, condominiums, manufactured homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation, and which are certified to meet the standards of the Energy Star program of the United States Department of Energy and Environmental Protection Agency. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

To qualify for service under this Schedule compliance with the Energy Star standards must be verified by a third party independent Home Energy Rating System (HERS) rater working for an approved HERS provider.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

Electric space heating and/or electric domestic water heating are not required, but if present, must meet the standards outlined below to qualify for the All-Electric rate, and must be permanently installed in accordance with sound engineering practices and the manufacturer's recommendations. In addition, to qualify for service under this schedule all electric energy used in the dwelling must be recorded through a single meter.

Energy Star Home Certification criteria may vary based on the geographical location of the residence. The criteria for each county served by Company and a list of independent HERS raters are available from the Company or on the Energy Star web site at www.energystar.gov.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

		Standard	All-Electric
I.	Basic Customer Charge per month	$14.00	$14.00
II.	Energy Charge		
	For the billing months of May – September		
	For all kWh per month, per kWh	11.0611¢	10.8819¢
	For the billing months of October – April		
	For the first 800 kWh per month, per kWh	11.0611¢	10.8819¢
	For all over 800 kWh per month, per kWh	11.0611¢	9.7939¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE ES
RESIDENTIAL SERVICE, ENERGY STAR

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 144	CAR Rider
Leaf No. 147	RDM Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

REQUIREMENTS

The Standard rate above is applicable to residences where the Energy Star standards are met, irrespective of the source of energy used for water heating or environmental space conditioning.

The All-Electric rate above is applicable to residences where the Energy Star standards are met and all energy required for all water heating cooking, clothes drying and environmental space conditioning is supplied electrically, except that which may be supplied by non-fossil sources such as solar.

1. Water heaters shall be of the automatic insulated storage type, of not less than 30-gallon capacity and may be equipped with only a lower element or with a lower element and an upper element.

2. Water heaters having only a lower element may have wattages up to but not exceeding the wattages shown below for various tank capacities.

Tank Capacity in Gallons	Maximum Single Element Wattage
30 – 49	4500
50 – 119	5500
120 and larger	Special approval

3. The total wattage of the elements in a water heater with a lower element and an upper element may not exceed the specific wattages above unless the water heater has interlocking thermostats to prevent simultaneous operation of the two elements such that the maximum wattage is not exceeded during operation.

Billing of service under this schedule will begin after the Customer has provided the Company with certification that the residence meets the Energy Star standards. In addition, if the residence meets the All-Electric Rate requirements, billing of service under the All-Electric rate will begin after the Customer has provided satisfactory documentation that the residence meets the All-Electric rate requirements. The Company at all reasonable times shall have the right to periodically inspect the premises of the Customer for compliance with the requirements, subsequent to the initial inspection.

OFFICIAL COPY

Sep 26 2023

SCHEDULE ES
RESIDENTIAL SERVICE, ENERGY STAR

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Fifth Revised Leaf No. 15
Superseding NC Fifty-Fourth Revised Leaf No. 15

SCHEDULE RT
RESIDENTIAL SERVICE, TIME OF USE

AVAILABILITY

Available on a voluntary basis to individually-metered residential customers in residences, condominiums, manufactured homes, or apartments which provide independent facilities for living, sleeping, eating, cooking, and sanitation. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge per month	$14.00
II.	Demand Charges	
	On-Peak Demand per month, per kW	$2.32
	Max Demand per month, per kW	$4.44
III.	Energy Charges	
	On-Peak Energy per month, per kWh	15.4154¢
	Off-Peak Energy per month, per kWh	7.0602¢
	Discount Energy per month, per kWh	4.8558¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider

OFFICIAL COPY

Sep 26 2023

SCHEDULE RT
RESIDENTIAL SERVICE, TIME OF USE

Leaf No. 129 EDIT-3 Rider
Leaf No. 131 EDIT-4 Rider
Leaf No. 144 CAR Rider
Leaf No. 147 RDM Rider
Leaf No. 148 ESM Rider
Leaf No. 149 PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF BILLING DEMAND

I. On-Peak Demand shall be the maximum 30-minute demand in the On-Peak Period during the current billing month.

II. Max Demand shall be the maximum 30-minute demand during the current billing month.

MINIMUM BILL

The minimum bill shall be the Basic Customer Charge.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on thirty days' written notice.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RSTC
RESIDENTIAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

AVAILABILITY

Available to residential customers in residences, condominiums, mobile homes, or individually-metered apartments which provide independent facilities for living, sleeping, eating, cooking, and sanitation. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the Customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge, per month	$14.00
II.	Energy Charges	
	Critical Peak Energy per month, per kWh	40.5832¢
	On-Peak Energy per month, per kWh	22.2972¢
	Off-Peak Energy per month, per kWh	9.7616¢
	Discount Energy per month, per kWh	7.0573¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to each of the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourth Revised Leaf No. 136
Superseding NC Third Revised Leaf No. 136

SCHEDULE RSTC
RESIDENTIAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

Leaf No. 131 EDIT-4 Rider
Leaf No. 144 CAR Rider
Leaf No. 147 RDM Rider
Leaf No. 148 ESM Rider
Leaf No. 149 PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF CRITICAL PEAK PRICING

The Company will call up to 20 Critical Peak Days per calendar year. The number of Critical Peak Days permitted annually may be exceeded in the event of a system emergency that is expected to place the Company's ability to provide reliable service to customers at risk.

During Company-designated Critical Peak Days, On-Peak Hours will become Critical Peak Hours. The Company may shift the Critical Peak Hours one hour earlier or later than the regular On-Peak Hours to provide flexibility for system operations; however, the number of Critical Peak Hours per day will remain the same as the number of On-Peak Hours that would have otherwise occurred. Any shift in Critical Peak Hours will be reflected in the customer notification.

NOTIFICATION OF CRITICAL PEAK PRICING

The Company will notify customers of Critical Peak Days and applicable Critical Peak Hours by 4:00 pm on the prior day. Customers may elect to receive notifications by phone, email and/or text message. The Company will use its best efforts to notify customers by 4:00 pm on the prior day; however, notification of Critical Peak Days may occur at any time, but no later than one hour prior to the Critical Peak period. Receipt of Critical Peak Pricing notification is the Customer's responsibility.

MINIMUM BILL

The minimum bill shall be the Basic Customer Charge.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RSTC
RESIDENTIAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on 30 days written notice.

GENERAL PROVISIONS

Participating customers must provide and maintain internet accessibility, an email address, and/or means to receive phone calls or text messages, as appropriate, at the Customer's expense in order for the Company to provide notification for Critical Peak Pricing.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RETC
RESIDENTIAL SERVICE FOR ALL-ELECTRIC CUSTOMERS: TIME OF USE WITH CRITICAL PEAK PRICING

AVAILABILITY

Available to residential customers in residences, condominiums, mobile homes, or individually-metered apartments which provide independent facilities complete for living, sleeping, eating, cooking, and sanitation. In addition, all energy required for all water heating and environmental space conditioning must be supplied electrically, and all electric energy used in such dwelling must be recorded through a single meter. Detached garages, barns, or other structures that are primarily used for residential purposes that are located on the same premise as the separate residential dwelling unit may be served under any applicable residential schedule as of January 1, 2024.

Power delivered under this schedule shall not be used for resale except to landlords for individually-metered residences leased by the bedroom, and where the landlord has complied with Chapter 22 of the Rules of the North Carolina Utilities Commission. Additionally, power delivered under this schedule shall not be used in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Rider SCG or Rider NM, under special terms and conditions expressed in writing in the contract with the customer.

To qualify for service under this Schedule, the environmental space conditioning system and a separate electric water heater must permanently be installed in accordance with sound engineering practices and the manufacturer's recommendations, and both shall meet the requirements below.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts; or other available voltages at the Company's option.

Motors in excess of 2 H.P., frequently started, or arranged for automatic control, must be of a type to take the minimum starting current and must be equipped with controlling devices approved by the Company.

Three-phase service will be supplied, if available. Where three-phase and single-phase service is supplied through the same meter, it will be billed on the rate below. Where three-phase service is supplied through a separate meter, it will be billed on the applicable General Service schedule.

RATE

I.	Basic Customer Charge, per month	$14.00
II.	Energy Charges	
	Critical Peak Energy per month, per kWh	42.9552¢
	On-Peak Energy per month, per kWh	20.7120¢
	Off-Peak Energy per month, per kWh	9.4555¢
	Discount Energy per month, per kWh	6.8402¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to each of the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider

OFFICIAL COPY

Sep 26 2023

SCHEDULE RETC
RESIDENTIAL SERVICE FOR ALL-ELECTRIC CUSTOMERS:
TIME OF USE WITH CRITICAL PEAK PRICING

Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 144	CAR Rider
Leaf No. 147	RDM Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF CRITICAL PEAK PRICING

The Company will call up to 20 Critical Peak Days per calendar year. The number of Critical Peak Days permitted annually may be exceeded in the event of a system emergency that is expected to place the Company's ability to provide reliable service to customers at risk.

During Company-designated Critical Peak Days, On-Peak Hours will become Critical Peak Hours. The Company may shift the Critical Peak Hours one hour earlier or later than the regular On-Peak Hours to provide flexibility for system operations; however, the number of Critical Peak Hours per day will remain the same as the number of On-Peak Hours that would have otherwise occurred. Any shift in Critical Peak Hours will be reflected in the customer notification.

NOTIFICATION OF CRITICAL PEAK PRICING

The Company will notify customers of Critical Peak Days and applicable Critical Peak Hours by 4:00 pm on the prior day. Customers may elect to receive notifications by phone, email and/or text message. The Company will use its best efforts to notify customers by 4:00 pm on the prior day; however, notification of Critical Peak Days may occur at any time, but no later than one hour prior to the Critical Peak period. Receipt of Critical Peak Pricing notification is the Customer's responsibility.

OFFICIAL COPY

Sep 26 2023

SCHEDULE RETC
RESIDENTIAL SERVICE FOR ALL-ELECTRIC CUSTOMERS:
TIME OF USE WITH CRITICAL PEAK PRICING

MINIMUM BILL

The minimum bill shall be the Basic Customer Charge.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year, and thereafter, until terminated by either party on 30 days written notice.

GENERAL PROVISIONS

Participating customers must provide and maintain internet accessibility, an email address, and/or means to receive phone calls or text messages, as appropriate, at the Customer's expense in order for the Company to provide notification for Critical Peak Pricing.

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGS
SMALL GENERAL SERVICE

AVAILABILITY

Available to the individual customer with a kilowatt demand of 75 kW or less. If the customer's measured demand exceeds 75 kW during any month, the customer will be served under Schedule LGS.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$21.00
II.	Demand Charge	
	For the first 30 kW of Billing Demand per month, per kW	No Charge
	For all over 30 kW of Billing Demand per month, per kW	$6.68
III.	Energy Charge	
	For the first 3,000 kWh per month, per kWh	13.7274¢
	For the next 6,000 kWh per month, per kWh	7.5501¢
	For all over 9,000 kWh per month, per kWh	6.4523¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGS
SMALL GENERAL SERVICE

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule, unless the service qualifies for a waiver of the REPS Billing Factor for an auxiliary service.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 70% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 50% of the Contract Demand
4. 30 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

SPECIAL TERMS AND CONDITIONS

Electric service for the operation of community access television (CATV) distribution line power supply equipment is available under this rate schedule for constant load as determined by the Company. Such service is provided only on a metered basis, and each individual delivery point shall be billed the Basic Customer Charge shown above, and all kWh will be billed at a rate of 6.7676 cents per kWh.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGS
SMALL GENERAL SERVICE

payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE BC
BUILDING CONSTRUCTION SERVICE

AVAILABILITY

Available only as temporary service to builders for use in the construction of buildings or other establishments which will receive, upon completion, permanent electric service from the Company's lines.

This Schedule is not available for permanent service to any building or other establishment, or for service to construction projects of types other than those described above. This Schedule is not available to rock crushers, asphalt plants, carnivals, fairs, or other non-permanent connections. Such service will be provided under the applicable general service schedule.

This Schedule is not available for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power, or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter at one delivery point, at 120/240 volts, single phase.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$ 21.00
II.	Energy Charge	
	For the first 50 kWh used per month, per kWh	11.4744¢
	For all over 50 kWh used per month, per kWh	8.8893¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

OTHER CHARGES

There will be no charge for connection and disconnection of the temporary service if the builder accepts delivery at a point where the Company deems such delivery feasible: otherwise, there will be a charge as follows: Overhead service conductors,

OFFICIAL COPY

Sep 26 2023

SCHEDULE BC
BUILDING CONSTRUCTION SERVICE

transformers and line extensions necessary to serve such requirements will be erected and dismantled at actual cost subject to credit for facilities which may remain in permanent service. The actual cost shall include payroll, transportation, and miscellaneous expense for both erection and dismantling of the temporary facilities, plus the cost of material used, less the salvage value of the material removed.

If the builder or his subcontractors require additional temporary services at the same construction site, a charge, computed as in the foregoing, shall be made for each such service. The Company may require a deposit equal to the estimated cost of connection and disconnection plus the estimated billing on the foregoing rate for the period involved, said deposit to be returned if the contract period is fulfilled.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

The term of this contract shall be the estimated length of time, declared by the builder on making application for service, required for completion of construction at the location where service is requested. The builder shall notify the Company when construction is completed. If at any time during the term of this contract, inspection discloses construction completed, or energy being used for purposes other than that set forth in this Schedule, the contract shall be deemed terminated, and billing for service thereafter, until disconnection is requested, shall be on the applicable general service schedule. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE LGS
LARGE GENERAL SERVICE

AVAILABILITY

Available to the individual customer with a kilowatt demand of more than 75 kW. If the customer's measured demand is 75 kW or less for twelve consecutive months, the customer will be served under Schedule SGS.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$26.00
II.	Demand Charge	
	For the first 30 kW of Billing Demand per month, per kW	No Charge
	For all over 30 kW of Billing Demand per month, per kW	$4.76
II.	Energy Charge	
	For the first 125 kWh per kW Billing Demand per month:	
	For the first 3,000 kWh per month, per kWh	13.3871¢
	For all over 3,000 kWh per month, per kWh	7.9070¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE LGS
LARGE GENERAL SERVICE

For the next 275 kWh per kW Billing Demand per month:	
For the first 6,000 kWh per month, per kWh	7.3761¢
For all over 6,000 kWh per month, per kWh	6.3978¢
For all over 400 kWh per kW Billing Demand per month:	
For all kWh per month, per kWh	5.9837¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider as shown in Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 70% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 50% of the Contract Demand
4. 30 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

OFFICIAL COPY

Sep 26 2023

SCHEDULE LGS
LARGE GENERAL SERVICE

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HLF
HIGH LOAD FACTOR

AVAILABILITY

Available to the individual customer with a kilowatt demand of 1,000 kW or more.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$34.00		
II.	Energy Charge per kWh, per month	2.8279¢		
		Secondary	Primary	Transmission
III.	Demand Charge per kW of Billing Demand, per month	$20.73	$19.07	$18.66

Demand Charge is based on delivery voltage. Secondary service includes delivery voltage less than or equal to 600 volts. Primary service includes delivery voltage greater than 600 volts but less than 44 kV. Transmission service includes delivery voltage greater than or equal to 44 kV.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HLF
HIGH LOAD FACTOR

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 90% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 75% of the Contract Demand
4. 1,000 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kW for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the 25th day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the 25th day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least 60 days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Second Revised Leaf No. 38
Superseding NC Fifty-First Revised Leaf No. 38

SCHEDULE TS
TRAFFIC SIGNAL SERVICE

AVAILABILITY

Available to municipalities in which the Company owns and operates the electric distribution system, and to County, State, and Federal Authorities, in areas served by the Company, for the energy requirements of traffic and safety signal systems, wireless communications equipment, and cameras used to monitor traffic.

Power delivered under this Schedule shall not be used for resale or exchange or in parallel with other electric power, or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at 120/240 volts, single-phase.

RATE

I.	Basic Customer Charge per month	$8.00
II.	Energy Charge	
	For the first 50 kWh per month, per kWh	42.8841¢
	For all over 50 kWh per month, per kWh	16.0676¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of this contract shall be one year and thereafter until terminated by either party on thirty days' written notice.

OFFICIAL COPY

Sep 26 2023

SCHEDULE TS
TRAFFIC SIGNAL SERVICE

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE I
INDUSTRIAL SERVICE

AVAILABILITY

Available only to establishments classified as "Manufacturing" by the North American Industry Classification System (NAICS), and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$21.00
II.	Demand Charge	
	For the first 30 kW of Billing Demand per month, per kW	No Charge
	For all over 30 kW of Billing Demand per month, per kW	$5.47
III.	Energy Charge	
	For the first 125 kWh per kW Billing Demand per month:	
	For the first 3,000 kWh per month, per kWh	13.5210¢
	For all over 3,000 kWh per month, per kWh	7.3408¢
	For the next 275 kWh per kW Billing Demand per month:	
	For the first 6,000 kWh per month, per kWh	6.0653¢
	For all over 6,000 kWh per month, per kWh	5.8227¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE I
INDUSTRIAL SERVICE

For all over 400 kWh per kW Billing Demand per month:
For all kWh per month, per kWh 5.4061¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF BILLING DEMAND

The Billing Demand each month shall be the largest of the following:

1. The maximum 30-minute demand during the current billing month
2. 70% of the maximum 30-minute demand during the previous 12 billing months including the current billing month
3. 50% of the Contract Demand
4. 30 kW

Provision 3. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or

OFFICIAL COPY

Sep 26 2023

SCHEDULE I
INDUSTRIAL SERVICE

at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

AVAILABILITY

Available to the individual customer with a Contract Demand that equals or exceeds 75 kW. Customers with a Contract Demand under 75 kW, served under this Schedule prior to January 1, 2024 under continually effective agreements, may continue to receive service under this Schedule. Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I. Transmission Service
Delivery voltage greater than or equal to 44 kV

A. Basic Customer Charge	$34.00
B. Demand Charges	
On-Peak Demand per month, per kW	$2.57
Mid-Peak Demand	
For the first 1,000 kW per month, per kW	$6.37
For the next 2,000 kW per month, per kW	$6.37
For all over 3,000 kW per month, per kW	$6.37

OFFICIAL COPY
Sep 26 2023

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

Base Demand per month, per kW	$0.51
C. Energy Charges	
On-Peak Energy per month, per kWh	9.1696¢
Off-Peak Energy per month, per kWh	3.8879¢
Discount Energy per month, per kWh	2.4849¢

II. Primary Service

Delivery voltage greater than 600 volts but less than 44 kV where the maximum on-peak actual demand during the months of May – September is as follows: Small - less than or equal to 1,000 kW; Medium - greater than 1,000 kW but less than or equal to 3,000 kW; Large - greater than 3,000 kW

	Small	Medium	Large
A. Basic Customer Charge	$34.00	$34.00	$34.00
B. Demand Charges			
On-Peak Demand per month, per kW	$3.32	$3.32	$3.32
Mid-Peak Demand			
For the first 1,000 kW per month, per kW	$8.33	$8.33	$8.33
For the next 2,000 kW per month, per kW	$7.75	$7.75	$7.75
For all over 3,000 kW per month, per kW	$7.75	$7.75	$7.75
Base Demand per month, per kW	$1.09	$1.09	$1.09
C. Energy Charges			
On-Peak Energy per month, per kWh	9.1244¢	9.1244¢	9.1244¢
Off-Peak Energy per month, per kWh	3.9509¢	3.9509¢	3.9509¢
Discount Energy per month, per kWh	2.5548¢	2.5548¢	2.5548¢

III. Secondary Service

Delivery voltage less than or equal to 600 volts where the maximum on-peak actual demand during the months of May – September is as follows: Small - less than or equal to 1,000 kW; Medium - greater than 1,000 kW but less than or equal to 3,000 kW; Large - greater than 3,000 kW

	Small	Medium	Large
A. Basic Customer Charge	$34.00	$34.00	$34.00
B. Demand Charges			
On-Peak Demand per month, per kW	$3.26	$3.26	$3.26
Mid-Peak Demand			
For the first 1,000 kW per month, per kW	$7.72	$7.72	$7.72
For the next 2,000 kW per month, per kW	$7.18	$7.18	$7.18
For all over 3,000 kW per month, per kW	$5.94	$5.94	$5.94
Base Demand per month, per kW	$1.54	$1.54	$1.54
C. Energy Charges			
On-Peak Energy per month, per kWh	9.5154¢	9.5154¢	9.5154¢
Off-Peak Energy per month, per kWh	4.2153¢	4.2153¢	4.2153¢
Discount Energy per month, per kWh	2.7690¢	2.7690¢	2.7690¢

DETERMINATION OF CUSTOMER SIZE CLASSIFICATION

The demand used to determine the rate classification of the customer as Small, Medium or Large, used in the calculation of the monthly bill, shall be the maximum 30-minute on-peak actual demand registered during the months of May-September within the

OFFICIAL COPY

Sep 26 2023

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

previous 12 months; however, if the customer was not served on a time of use rate prior to taking service under Schedule OPT-V, the customer's maximum integrated 30-minute actual demand for the billing months of May through September shall be used. For new customers, the Company shall determine the size classification based on an appropriate estimate of the maximum on peak actual demand for the months of May through September.

Each year, at the end of the summer season, accounts will be reviewed to determine if a change in classification is necessary based on the most recent months of May through September. If a change in classification is warranted, such change and reclassification shall be effective with the November billing period which follows the summer season. The Company may, at its option, change the rate classification at other times if, upon its own assessment, the Company determines that a change in the load would warrant a change in classification prior to the annual review.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

OFFICIAL COPY

Sep 26 2023

SCHEDULE OPT-V
OPTIONAL POWER SERVICE, TIME OF USE
WITH VOLTAGE DIFFERENTIAL

CONTRACT DEMAND

The Company will require contracts to specify the maximum demand to be delivered to the Customer which shall be the Contract Demand.

DETERMINATION OF BILLING DEMANDS

I. On-Peak Demand shall be the maximum 30-minute demand in the On-Peak Period during the current billing month.

II. Mid-Peak Demand shall be the maximum 30-minute demand in either the On-Peak or Off-Peak Period during the current billing month.

III. Base Demand shall be the higher of (1) the maximum 30-minute demand during the previous 12 billing months including the current billing month, or (2) 50% of the Contract Demand.

Provision III.(2) related to Contract Demand will apply beginning with the 13th full billing month for new installations.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least sixty (60) days' previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

AVAILABILITY

Available to non-residential establishments with a minimum Contract Demand of 1,000 kW who qualify for service under the Company's rate schedules LGS, I, OPT-V or HLF.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available for a customer who qualifies for a residential schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, under special terms and conditions expressed in writing in the contract with the Customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in, or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

The Company may cancel this schedule at any time it deems necessary.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

BILL DETERMINATION

The monthly bill shall consist of the following charges:

I. Baseline Charge = sum of charges under the Customer's baseline rate schedule for their Customer Baseline Load
II. Administrative Charge = $200 per month
III. Energy Charge = sum of [(New Load kWh – Reduced Load kWh) x Hourly Energy Price]
IV. Capacity Charge = sum of [(New Load kWh – Reduced Load kWh) x Hourly Capacity Price]
V. Incentive Margin = 0.6 cents per kWh of Net New Load
VI. Incremental Demand Charge = $1.00 per kW of Incremental Demand for Distribution Service
= $1.00 per kW of Incremental Demand for Transmission Service

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

DEFINITIONS

Customer Baseline Load (CBL): The CBL is one full year of hourly loads representing the Customer's energy use and load pattern on their baseline rate schedule. The CBL, as agreed to by the Customer and the Company, is defined in terms of average kWh per hour and max kW, by calendar month and by time-of-use (TOU) period, if applicable. The CBL is based on the Customer's historical usage, where available, and may be adjusted for load responsiveness as described in the Customer Baseline Load provisions below. The Customer is billed or credited at Hourly Prices for actual usage above or below their CBL.

New Load: New Load (kWh) is the amount by which actual kWh exceeds CBL kWh for any hour.

Reduced Load: Reduced Load (kWh) is the amount by which actual kWh is less than CBL kWh for any hour.

Net New Load: Net New Load (kWh) is equal to New Load kWh minus Reduced Load.

Incremental Demand: Incremental Demand (kW) is the amount by which actual kW (maximum 30-minute demand during the current billing month) exceeds CBL kW for the same billing month.

Contract Demand: The maximum demand to be delivered under this Schedule.

CUSTOMER BASELINE LOAD

Initial CBL Establishment:

An initial CBL will be established based on the Customer's load history in the previous 12 months, as determined by the Company and agreed to by the Customer. Adjustments or use of prior load history may be allowed in such cases as permanent removal or addition of equipment; installation of permanent energy efficiency measures; installation of parallel generation; nonrepresentative load patterns from extraordinary events; and plant shutdowns.

CBL Modifications:

CBL's are required to be re-established after four (4) years. Subsequent CBL's will be established using the same process and considerations as the initial CBL for existing customers, in addition to the Load Response Adjustment described below. Customers may request an update to their CBL no earlier than 12 months from their previous CBL. Customers served under Schedule HP before January 1, 2024 under continually effective agreements are not required to re-establish their CBL after four years unless and until the Customer requests an update of their CBL for any reason.

Load Response Adjustment:

For customers on a TOU baseline schedule, CBL modifications may include a Load Response Adjustment, at the Customer's option and requiring at least 48 months of representative load history on Schedule HP. The Adjustment reduces the Customer's CBL for demonstrated load reductions on days when Hourly Capacity Prices are in effect. The Company will calculate the Customer's weighted average Load Response Factor, as a percentage of load, over the previous 48 months. The Customer's On-Peak CBL (kW and kWh) will be reduced by the full Load Response Factor, and the Customer's Off-Peak CBL will be reduced by half of the Load Response Factor. CBL's for Discount hours will not be adjusted.

HOURLY PRICING

Each business day by 4:00 p.m., the Hourly Energy Prices and Hourly Capacity Prices (if applicable) for the 24 hours of the following day will be communicated to the Customer. Prices for weekends and Company holidays will be communicated to the Customer by 4:00 p m. on the last business day before the weekend or holiday. The Customer is responsible for notifying the company if he or she fails to receive the price information.

Hourly Energy Prices are based on the Company's forecasted marginal energy cost in each hour, which includes marginal fuel, variable operating and maintenance expenses, and an adjustment for delivery line losses.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

Hourly Capacity Prices are applicable when the daily forecast indicates a reserve ratio of 1.15 or less, calculated as available generation divided by system demand. The Hourly Capacity Price is zero for all other hours of the year. When applicable, the Hourly Capacity Price is a tiered rate based on the forecasted reserve ratio, reflecting the marginal cost of production capacity.

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider (applicable to Baseline Charge only)
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PROVISION FOR CUSTOMERS OPERATING IN PARALLEL WITH THE COMPANY

Customers served under this Schedule are permitted to operate power generating facilities in parallel with the Company, with a maximum operating capacity of 50 megawatts or less. If a customer has power generating facilities that are not governed by another parallel generation rate schedule or rider, the Standby Charge, Determination of Standby Charges, and Interconnection Facilities Charge provisions of Schedule PG shall be applicable to service under this Schedule. The Incremental Demand Charge does not apply to any incremental demand that is less than Standby Demand. In addition, customers operating a generator in parallel with the Company's system must comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

PROVISION FOR CUSTOMERS SERVED UNDER RIDER IS

For customers served under Rider IS, the Interruptible Contract Demand shall be the same as that contracted for during the baseline period. Further, the calculation of the Effective Interruptible Demand (EID) each month will exclude all energy consumed above the CBL. Hourly Capacity Prices will not apply to Reduced Load above Firm Contract Demand during the hours of interruption periods.

PROVISION FOR CUSTOMERS SERVED UNDER RIDER PS

For customers served under PowerShare Rider PS, the Maximum Curtailable Demand shall be the same as that contracted for during the baseline period, and the PowerShare Firm Demand must be at least 100 kW less than the CBL. Further, the calculation of the Effective Curtailable Demand (ECD) each month will exclude all energy consumed above the CBL. The PowerShare Curtailed Energy Credit will apply to only the load curtailed between the Firm Demand and the smaller of the Forecasted Demand and the CBL, provided the Forecasted Demand is greater than the Firm Demand. Hourly Energy Prices and Hourly Capacity Prices will not apply to Reduced Load above the PowerShare Firm Demand during a Curtailment Period.

OFFICIAL COPY

Sep 26 2023

SCHEDULE HP
HOURLY PRICING

POWER FACTOR ADJUSTMENT

The Company will adjust, for power factor, the kWh for any customer operating in parallel, and may adjust the kWh for any other customer served under this schedule. The power factor adjustment may result in a Power Factor Charge, if applicable, as follows:

Power Factor Charge = Sum of Hourly Load Correction Amounts for all hours in the billing period, but not less than zero,

Where:

Hourly Load Correction Amount = Hourly Load Correction kWh x Hourly Price
Hourly Load Correction kWh = [total hourly kWh x (0.85 ÷ hourly power factor)] – total hourly kWh

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each Customer shall enter into a contract to purchase electricity under this schedule for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter, by giving at least sixty (60) days previous notice of such termination in writing.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE PG
PARALLEL GENERATION

AVAILABILITY

This Schedule is closed to new customers beginning January 1, 2024.

Available only to non-residential establishments which have generating facilities not in excess of eighty (80) megawatts which are interconnected with the Company's system.

Service under this Schedule shall be used solely by the individual contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

The Customer's interconnected power generating facilities may be operated in parallel with the Company's system. Power delivered under this schedule shall not be used for resale or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Power Company, except at the option of the Company, under special terms and conditions expressed in writing in the contract with the Customer.

The Company will provide service to the Customer's net load (total load less Customer generation) and will purchase excess energy from the Customer when the Customer's generation output exceeds the Customer's load, at the rates shown below. Meters for the measurement of excess energy purchased by the Company under this Schedule shall be equipped with compensation to reflect delivery of such energy to the high voltage side of the transformer installation. This Schedule is not available for purchase by the Company of the entire output of the Customer's generator in excess of auxiliary load.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one metering point, at one delivery point, at one of the following approximate voltages where available, upon mutual agreement:

3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts; or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

CHARGES		Interconnected To	
		Transmission System	Distribution System
I.	Basic Customer Charge per month	$ 75.00	$ 75.00
II.	On-Peak Demand Charge per On-Peak month, per kW	$17.89	$21.26

OFFICIAL COPY

SCHEDULE PG
PARALLEL GENERATION

III.	Energy Charges		
	a. All On-Peak Energy per month, per kWh	5.1115¢	5.2333¢
	b. All Off-Peak Energy per month, per kWh	4.8531¢	4.9525¢
IV.	Standby Charge per month, per kW	$2.00	$2.00

CREDITS

Credits for excess energy delivered to the Company are set forth in the most recently approved Schedule PP (NC) Variable Rate Energy Credit applicable to the Customer's generation type.

Sep 26 2023

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh charges shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DEFINITION OF ON-PEAK AND OFF-PEAK PERIODS

On-Peak Period Hours	7:00 a.m. – 11:00 p m. Monday – Friday
Off-Peak Period Hours	All other weekday hours and all Saturday and Sunday hours
On-Peak Months	Billing Months of December, January, February, March, June, July, August, September
Off-Peak Months	Billing Months of April, May, October, November

CONTRACT DEMAND

The Company will require contracts to specify a Contract Demand. The Contract Demand shall be the maximum demand to be delivered under normal conditions to the Customer during the on-peak periods of the On-peak Billing months of December through March and June through September.

DETERMINATION OF DEMAND CHARGES

The On-Peak Demand for billing purposes shall be the largest of the following:

1. The maximum 30-minute demand in the On-Peak Period during the current billing month
2. 75% of the Contract Demand
3. 30 kW

OFFICIAL COPY

Sep 26 2023

SCHEDULE PG
PARALLEL GENERATION

Demand charges are applicable for the billing months of December through March and June through September. Demand charges do not apply in the billing months of October, November, April, or May.

Provision 2. related to Contract Demand will apply beginning with the 13th full billing month for new installations.

DETERMINATION OF STANDBY CHARGES

The Company will require each customer who supplies any portion of their electrical requirements by generating facilities to contract for standby, auxiliary, or breakdown service subject to the following provisions. Customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor, as determined by the Company, are exempted from the Standby Charge.

If applicable, the Standby kW will be based on the nameplate capacity in kilowatts of the Customer's generating facility. However, at the option of the Customer, additional metering facilities will be installed, and for billing purposes, the Standby kW will be based on the Customer's maximum 30-minute demand which has been supplied by the Customer's generating facilities during the previous 12 billing months including the current billing month. If additional metering facilities are installed, they will be subject to a monthly Extra Facilities Charge as set forth in the Company's Service Regulations..

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Schedule is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit an Interconnection Request which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures, and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

INTERCONNECTION FACILITIES CHARGE

The Customer shall be responsible for providing suitable control and protective devices on his equipment to assure no disturbance to other customers of the Company or to the Company itself, and to protect the Customer's facilities from all loss or damage which could result from operation with the Company's system.

The Company will furnish, install, own, and maintain interconnection facilities as necessary for service under this Schedule including:

- Suitable control and protective devices installed on the Company's equipment to allow operation of the Customer's generating facilities (see exception below);
- Metering facilities equipped to prevent reverse registration for the measurement of service under this Schedule; and
- Any other modification to its system required to serve the Customer under this Schedule as required by the Company.

All such interconnection facilities in excess of those required in the absence of the Customer's generating facilities to provide capacity at the level of the Contract Demand shall be subject to a monthly charge under the Extra Facilities provision of the Company's Service Regulations. The Company reserves the right to install, at any time, facilities necessary for the appropriate measurement of service under this Schedule and to adjust the Interconnection Facilities Charge accordingly, solely at the option of the Company.

OFFICIAL COPY

Sep 26 2023

SCHEDULE PG
PARALLEL GENERATION

POWER FACTOR CORRECTION

When the average monthly power factor of the power required by the Customer from the Company is less than 85 percent, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85 percent and dividing by the average power factor in percent for that month.

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the maximum integrated on-peak demand in kilowatts or the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor and to adjust the Interconnection Facilities Charge accordingly, solely at the option of the Company.

MINIMUM BILL

Beginning in the 13th full month for new service installations, the minimum monthly bill shall be calculated on the Rate above including the Basic Customer Charge, On-Peak Demand Charge, Energy Charge, Standby Charge, etc., but the Demand Charge component billed during the On-Peak months shall be based on not less than 75% of the Contract Demand. If the Customer's demand measured during normal operating conditions exceeds the Contract Demand, the Company may, at any time, establish the minimum based on the maximum 30-minute demand in the previous 12 billing months including the current billing month.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

Credit billings to the Customer will be credited to the Customer's account, or, at the option of the Customer and upon ten (10) days' prior written notice, shall be payable to the Customer within fifteen (15) days of the date of the bill.

CONTRACT PERIOD

Each customer shall enter into a contract for a minimum original term of five (5) years and thereafter until terminated by giving at least thirty (30) months' previous notice of such termination in writing, but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances.

The Company reserves the right to terminate the Customer's contract under this Schedule at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Schedule or operates his generating facilities in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Schedule, the Customer will be required to pay the Company for the costs due to such early cancellation.

If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGSTC
SMALL GENERAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

AVAILABILITY

Available to the individual customer with a demand of 75 kilowatts (kW) or less. If the customer's measured demand exceeds 75 kW during any month, the customer will be served under Schedule LGS.

Service under this Schedule shall be used solely by the contracting Customer in a single enterprise, located entirely on a single, contiguous premises.

This Schedule is not available to the individual customer who qualifies for a residential or industrial schedule, nor for auxiliary or breakdown service. Power delivered under this schedule shall not be used for resale or exchange or in parallel with other electric power or as a substitute for power contracted for or which may be contracted for, under any other schedule of the Company, except at the option of the Company, or for service in conjunction with Riders SCG, NM or NSC, under special terms and conditions expressed in writing in the contract with the customer.

The obligations of the Company in regard to supplying power are dependent upon its securing and retaining all necessary rights-of-way, privileges, franchises and permits, for the delivery of such power. The Company shall not be liable to any customer or applicant for power in the event it is delayed in or is prevented from, furnishing the power by its failure to secure and retain such rights-of-way, rights, privileges, franchises and permits.

TYPE OF SERVICE

The Company will furnish 60 Hertz service through one meter, at one delivery point, at one of the following approximate voltages, where available:

Single-phase, 120/240 volts, 120/208 volts, 240/480 volts or other available single-phase voltages at the Company's option; or
3-phase, 208Y/120 volts, 460Y/265 volts, 480Y/277 volts; or
3-phase, 3-wire, 240, 460, 480, 575, or 2300 volts: or
3-phase, 4160Y/2400, 12470Y/7200, or 24940Y/14400 volts; or
3-phase voltages other than those listed above may be available at the Company's option if the size of the Customer's contract warrants a substation solely to serve that Customer, and if the Customer furnishes suitable outdoor space on the premises to accommodate a ground-type transformer installation, or substation, or a transformer vault built in accordance with the Company's specifications.

The type of service supplied will depend upon the voltage available. Prospective customers should determine the available voltage by contacting the nearest office of the Company before purchasing equipment.

Motors of less than 5 H.P. may be single-phase. All motors of more than 5 H.P. must be equipped with starting compensators. The Company reserves the right, when in its opinion the installation would not be detrimental to the service of the Company, to permit other types of motors.

RATE

I.	Basic Customer Charge per month	$21.00
II.	Demand Charges	
	On-Peak Demand* per month, per kW	$4.22
	Max Demand* per month, per kW	$1.69

* For all over 30 kW of Billing Demand. No charge for first 30 kW of Billing Demand.

III.	Energy Charges	
	Critical Peak Energy per month, per kWh	42.3658¢
	On-Peak Energy per month, per kWh	26.8818¢
	Off-Peak Energy per month, per kWh	11.7960¢

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGSTC
SMALL GENERAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

Discount Energy per month, per kWh 8.1472¢

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to each of the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

DETERMINATION OF ON-PEAK, OFF-PEAK, AND DISCOUNT HOURS

	Applicable Days	Summer Hours May – September	Non-Summer Hours October – April
On-Peak Period:	Monday – Friday excluding Holidays*	6:00 pm – 9:00 pm	6:00 am – 9:00 am
Discount Period:	All days including Holidays*	1:00 am – 6:00 am	1:00 am – 3:00 am and 11:00 am – 4:00 pm
Off-Peak Period:	All days including Holidays*	All hours that are not On-Peak or Discount Hours	

*Holidays include New Year's Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Day after Thanksgiving Day, and Christmas Day. When one of the above holidays falls on a Saturday, the Friday before the holiday will be considered a holiday; when the holiday falls on a Sunday, the following Monday will be considered a holiday.

All hours are shown in Eastern Prevailing Time (EPT).

DETERMINATION OF CRITICAL PEAK PRICING

The Company will call up to 20 Critical Peak Days per calendar year. The number of Critical Peak Days permitted annually may be exceeded in the event of a system emergency that is expected to place the Company's ability to provide reliable service to customers at risk.

During Company-designated Critical Peak Days, On-Peak Hours will become Critical Peak Hours. The Company may shift the Critical Peak Hours one hour earlier or later than the regular On-Peak Hours to provide flexibility for system operations; however,

OFFICIAL COPY

Sep 26 2023

SCHEDULE SGSTC
SMALL GENERAL SERVICE:
TIME OF USE WITH CRITICAL PEAK PRICING

the number of Critical Peak Hours per day will remain the same as the number of On-Peak Hours that would have otherwise occurred. Any shift in Critical Peak Hours will be reflected in the customer notification.

NOTIFICATION OF CRITICAL PEAK PRICING

The Company will notify customers of Critical Peak Days and applicable Critical Peak Hours by 4:00 pm on the prior day. Customers may elect to receive notifications by phone, email and/or text message. The Company will use its best efforts to notify customers by 4:00 pm on the prior day; however, notification of Critical Peak Days may occur at any time, but no later than one hour prior to the Critical Peak period. Receipt of Critical Peak Pricing notification is the Customer's responsibility.

DETERMINATION OF BILLING DEMANDS

I. On-Peak Demand shall be the maximum 30-minute demand in the On-Peak Period during the current billing month.

II. Max Demand shall be the maximum 30-minute demand during the current billing month.

POWER FACTOR CORRECTION

When the average monthly power factor of the Customer's power requirements is less than 85%, the Company may correct the integrated demand in kilowatts for that month by multiplying by 85% and dividing by the average power factor in percent for that month.

PAYMENT

Bills under the Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of and be due and payable with the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract to purchase electricity from the Company for a minimum original term of one (1) year, and thereafter from year to year upon the condition that either party can terminate the contract at the end of the original term, or at any time thereafter by giving at least 60 days previous notice of such termination in writing; but the Company may require a contract for a longer original term of years where the requirement is justified by the circumstances. If the Customer requests an amendment to or termination of the service agreement before the expiration of the initial term of the agreement, the Customer shall pay to the Company an early termination charge as set forth in the Company's Service Regulations.

GENERAL PROVISIONS

Participating customers must provide and maintain internet accessibility, an email address, and/or means to receive phone calls or text messages, as appropriate, at the Customer's expense in order for the Company to provide notification for Critical Peak Pricing.

OFFICIAL COPY

Sep 26 2023

SCHEDULE S
UNMETERED SIGNS

AVAILABILITY

This schedule is closed and not available to new customers or locations not served on this schedule prior to January 1, 2008, in the former Duke Energy Carolinas Nantahala Area and shall remain in effect for customers under continually effective agreements made prior to January 1, 2008.

This Schedule is available for unmetered service to a sign where the customer provides the lights. This Schedule is for "entrance type" signage on the property owned or controlled by the commercial and/or industrial customer in whose name the bill is rendered. Duke Energy Carolinas must be providing general area lighting and secondary wire must be available at the sign location such that no additional transformation is required. The Company and customer must agree in writing to the estimated monthly kWh usage.

MONTHLY RATE

Basic Customer Charge per month	$7.00 per sign
Energy Charge	8.2101 cents per contracted kWh used

RIDERS

The Renewable Energy Portfolio Standard (REPS) Rider charge as shown on Leaf No. 68 and the Customer Assistance Recovery Rider charge as shown on Leaf No. 144 will be added to the monthly bill for each agreement for service under this schedule.

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 62	Energy Efficiency Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. The Company has the right to suspend service for non-payment of bills in accordance with Rule R12-8 of the Rules and Regulations of the North Carolina Utilities Commission. In addition, any bill not paid on or before the expiration of 25 days from the date of the bill is subject to an additional charge of one percent (1%) per month as provided in Rule R12-9 of the Rules and Regulations of the North Carolina Utilities Commission.

CONTRACT TERM

Service hereunder shall be for a period of not less than one year, except when, in the opinion of the Company, contracts of shorter duration are justified by particular circumstances.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

AVAILABILITY

Available to the individual customer for lighting of outdoor areas at locations on the Company's distribution system. Service under this Schedule may be withheld or discontinued at the option of the Company.

RATE

All-night outdoor lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
		High Pressure Sodium Vapor*			
4,000	21	Post Top (2)	NA	NA	$26.24
9,500	47	Suburban (3)	$16.15	$23.52	$28.14
9,500	47	Urban	$18.22	$25.59	$30.21
13,000	56	Suburban (4) (in suitable mercury fixture)	$17.69	NA	NA
16,000	70	Urban	$19.71	$27.08	$31.70
27,500	104	Urban	$23.33	$30.70	$35.32
50,000	156	Urban	$28.42	$35.79	$40.41
16,000	70	Floodlight	$24.37	$31.74	$36.36
27,500	104	Floodlight	$28.73	$36.10	$40.72
50,000	156	Floodlight	$32.31	$39.68	$44.30
		Metal Halide*			
9,000	43	Urban	$20.91	$28.28	$32.90
40,000	155	Urban	$33.80	$41.17	$45.79
78,000	295	Area	$78.09	$85.46	$90.08
110,000	395	Area	$106.76	$114.13	$118.75
40,000	155	Floodlight	$35.87	$43.24	$47.86
34,000	180	Floodlight (10)	$33.65	$41.02	NA
34,000	180	Floodlight (10)	NA	$44.84	$45.64
110,000	217	Floodlight (half night) (10)	$48.95	$56.32	$60.94
110,000	435	Floodlight (10)	NA	$89.83	NA
110,000	435	Floodlight (10)	$83.39	$90.76	$95.38
		Mercury Vapor*			
4,000	41	Suburban (7)	$14.54	NA	NA
4,000	41	Post Top (2)	$13.36 (5)	NA	$25.35 (6)
4,000	41	Post Top (7)	$17.63	NA	NA
7,500	75	Suburban (3)	$14.61	$21.98	$26.60
7,500	75	Urban (6)	$16.46	$23.83	$28.45
7,500	75	Post Top (7)	$25.13	NA	NA
20,000	152	Urban (6)	$22.64	$30.01	$34.63
		Light Emitting Diode (8) (9)			
3,700	11	Area 30 watts	$13.15	$20.52	$25.14
4,500	14	Area 40 watts	$13.70	$21.07	$25.69
5,500	18	Area 50 watts	$14.11	$21.48	$26.10
8,000	25	Area 70 watts	$14.44	$21.81	$26.43
15,500	40	Area 110 watts	$17.56	$24.93	$29.55
20,000	54	Area 150 watts	$19.59	$26.96	$31.58

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
30,500	79	Area 220 watts	$23.03	$30.40	$35.02
36,000	101	Area 280 watts	$26.28	$33.65	$38.27
44,500	151	Area 420 watts	$55.47	$62.84	$67.46
57,000	179	Area 530 watts	$62.23	$69.60	$74.22
16,500	47	Floodlight 130 watts	$30.04	$37.41	$42.03
33,500	48	Floodlight 260 watts (half night) (10)	$63.19	$70.56	$75.18
33,500	95	Floodlight 260 watts	$65.02	$72.39	$77.01

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture failure and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(2) Luminaire is not available for the lighting of streets, roadways, and other vehicle thoroughfares.

(3) Closed to new installations on or after July 1, 2005.

(4) Closed to new installations on or after September 15, 1985.

(5) Closed to new installations on or after November 12, 1991.

(6) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(7) Closed to new installations.

(8) Light Emitting Diode (LED) luminaires are available for new installations after January 28, 2014, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires and for customer requested replacements of existing high pressure sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(9) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2019. The Company will replace post top mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2024.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) Additional monthly charge for the underground conductor system: $0.07 for each increment of 10 feet, or less, over 150 feet per pole.

(2) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(3) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

OFFICIAL COPY
Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

(4) An underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, the charges under provision (1) of this section will apply in addition to the $4.62 charge.

(5) Additional monthly charge for the underground conductor system for existing pole installations in-service prior to November 12, 1991:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) For non-floodlight luminaires, color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $1.01 per lamp per month. For non-floodlight luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new non-flood luminaires on or after October 1, 2007.

(2) All non-floodlight luminaires will be installed on standard 30-foot wood poles. At Customer request, and for an additional charge, all non-floodlight luminaires can be installed on wood poles larger than the standard 30-foot, if the location permits the use of bucket-type equipment for mounting and servicing: 35-foot pole for 30 cents per month, or 40-foot pole for 41 cents per month.

(3) All luminaires installed on wood poles longer than 40-feet, or structures other than standard wood poles, can be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(4) All non-floodlight luminaires, with brackets longer than 30 inches but not longer than 20 feet, can be installed where use of bucket-type equipment is permitted for an extra charge of 71 cents per month per bracket.

(5) Where two or more luminaires were installed for service before November 12, 1991 on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(6) Luminaire locations shall be designated by the Customer and where only an extension of secondary facilities is required from the nearest distribution source, the rate per luminaire as stated above shall apply. When the number of required poles exceeds the number of luminaires requested, a monthly charge not less than $1.72 per standard wood pole shall

OFFICIAL COPY

Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

apply for luminaires installed for service before November 12, 1991. A monthly charge of $7.37 per standard wood pole shall apply for luminaires installed for service after November 12, 1991. When any installation requires an extension of primary facilities solely to serve the luminaires, an additional monthly charge equal to 1.0% of the estimated cost of the primary extension shall apply. Should any installation require guying of secondary facilities, a charge of 61 cents per month per guy shall apply.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires installed by the Company as standard, post top and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated by the Company as decorative or nonstandard, and for all standard luminaires mounted on supports other than standard wood poles or other non-standard supports, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

AVAILABILITY

Available for the purpose of lighting streets, highways, parks, and other public places for Municipal, County, State, and Federal Governments, at locations inside or outside municipal limits on the Company's distribution system. This Schedule is not available for service to non-governmental entities.

RATE

All-night street lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		High Pressure Sodium Vapor*			
9,500	47	Suburban (1)	$10.57	NA	NA
9,500	47	Urban	$12.10	NA	NA
13,000	56	Suburban (2) (in suitable mercury fixture)	$11.84	NA	NA
16,000	70	Urban	$13.19	NA	NA
27,500	104	Urban	$15.84	NA	NA
38,000	136	Urban (3) (in suitable mercury fixture)	$17.22	NA	NA
50,000	156	Urban	$19.65	NA	NA
140,000	391	Urban (installed on 55-foot wood pole)	$40.21	NA	NA
		Metal Halide*			
9,000	43	Urban	$19.25	NA	NA
40,000	155	Urban	$23.71	NA	NA
78,000	295	Area	$71.94	NA	NA
		Mercury Vapor*			
4,000	41	Suburban (1)	$6.96	NA	NA
7,500	75	Suburban (1)	$9.44	NA	NA
7,500	75	Urban (4)	$10.85	NA	NA
20,000	152	Urban (4)	$15.39	NA	NA
55,000	393	Urban (4)	$31.90	NA	NA
		Incandescent (5)			
	63	Suburban	$6.83	NA	NA
	63	Post Top	$2.56	NA	NA
		Light Emitting Diode (6) (7)			
3,700	11	Area 30 watts	$10.54	$17.91	$22.53
4,500	14	Area 40 watts	$11.01	$18.38	$23.00
5,500	18	Area 50 watts	$11.36	$18.73	$23.35
8,000	25	Area 70 watts	$11.62	$18.99	$23.61
15,500	40	Area 110 watts	$14.13	$21.50	$26.12
20,000	54	Area 150 watts	$15.77	$23.14	$27.76
30,500	79	Area 220 watts	$18.53	$25.90	$30.52
36,000	101	Area 280 watts	$21.17	$28.54	$33.16
44,500	151	Area 420 watts	$44.63	$52.00	$56.62
57,000	179	Area 530 watts	$63.87	$71.24	$75.86

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		Floodlight Service*			
16,000	70	High Pressure Sodium Vapor	$23.41	$30.78	$35.40
27,500	104	High Pressure Sodium Vapor	$27.59	$34.96	$39.58
50,000	156	High Pressure Sodium Vapor	$31.03	$38.40	$43.02
40,000	155	Metal Halide	$34.45	$41.82	$46.44
34,000	180	Metal Halide (10)	$32.32	$39.69	NA
34,000	180	Metal Halide (10)	NA	$43.51	$44.31
110,000	217	Metal Halide (half night) (10)	$47.01	$54.38	$59.00
110,000	435	Metal Halide (10)	NA	$86.52	NA
110.000	435	Metal Halide (10)	$80.08	$87.45	$92.07
15,000	47	LED 130 watts	$30.84	$38.21	$42.83
30,000	48	LED 260 watts (half night) (10)	$64.86	$72.23	$76.85
30,000	95	LED 260 watts	$66.75	$74.12	$78.74

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture repair and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) Closed to new installations on or after July 1, 2005.

(2) Closed to new installations on or after February 3, 1987.

(3) Closed to new installations on or after November 12, 1991.

(4) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(5) Closed to new installations.

(6) Light Emitting Diode (LED) luminaires are available for new installations, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires, and for customer requested replacements of existing sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(7) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 6 above beginning January 1, 2020 through December 31, 2023.

(8) "Existing Pole", "New Pole" and/or "New Pole Served Underground" rates are applicable for existing pole, new pole and/or new pole served underground installations on or after September 1, 2018. After this date, the "Existing Pole" rates are available only for luminaries attached to poles which are not installed solely to support the luminaire.

(9) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) For non-floodlight underground facilities installed prior to September 1, 2018 or for floodlight underground facilities installed prior to November 12, 1991, the additional monthly charge for the underground conductor system:

OFFICIAL COPY

Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

(2) For non-floodlight underground facilities installed on or after September 1, 2018 or for floodlight underground facilities installed on or after November 12, 1991, an underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, a charge of $0.07 for each increment of 10 feet, or less, over 150 feet will apply in addition to the $4.62 charge. This charge is also applicable to "New Pole Served Underground" rates over 150 feet per pole.

(3) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(4) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) The installation of luminaires at the standard monthly rates above includes Company-designated standard wood poles.

(a) Wood poles or structures other than Company-designated standard wood poles, may be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(b) The Company's standard metal street lighting pole is closed as of January 1, 2010. An extra monthly charge of $5.41 per month, per pole applies to installations prior to January 1, 2010.

(c) The Company's standard metal mast-arm pole may be installed for an extra monthly charge of $5.41 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole, per month, per pole applies to installations prior to January 1, 2010. The standard metal mast-arm pole without a luminaire is closed as of January 1, 2010. A monthly charge of $7.12 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole applies to installations prior to January 1, 2010.

(d) For non-floodlight luminaires, brackets longer than 12 feet, but not longer than 20 feet can be installed for an additional monthly charge of $4.36.

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

(2) For non-floodlight luminaires installed outside municipal limits prior to January 1, 2010, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. For floodlight luminaires installed prior to November 12, 1991, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. A monthly charge of $7.37 per pole shall be made for such excess number of poles installed for service on or after January 1, 2010 for non-floodlight luminaries or on or after November 12, 1991 for floodlight luminaires in or outside municipal limits.

(3) When the installation requested requires a primary extension solely to serve the luminaires, an additional monthly charge of 1.0% of the estimated cost of the primary extension will be made. For poles to support non-floodlight luminaires installed outside municipal limits prior to January 1, 2010 and for poles to support floodlight luminaires, should the installation of secondary facilities include downguys or spanguys, a charge of $0.61 per month per guy shall be made.

(4) Standard wood poles installed prior to January 1, 2010 may be provided for $1.72 per pole per month plus $.61 per month per guy for downguys or spanguys, if needed, when provided to solely support traffic signals. Standard wood poles installed January 1, 2010 and after, may be provided for $7.37 per pole per month when provided solely to support traffic signals.

(5) Color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $0.71 per lamp per month. For luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new luminaires on or after October 1, 2007.

(6) For non-floodlight luminaires installed prior to January 1, 2010, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72. For floodlight luminaires installed prior to November 12, 1991, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(7) For non-floodlight LED and floodlight luminaires, the Customer may, at its option, prepay the initial capital cost of poles and underground wiring, in which case the monthly rate per luminaire shall be the Existing Pole Rate shown above.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires designated as standard by the Company and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated as decorative or non-standard by the Company, and for all standard luminaires mounted on supports other than standard wood poles, and for primary extensions solely serving the luminaires.

OFFICIAL COPY

Sep 26 2023

SCHEDULE NL
NONSTANDARD LIGHTING SERVICE
(PILOT)

AVAILABILITY

This Schedule is closed and not available for service to new installations after August 1, 2018 but remains in effect for continually effective agreements under this Schedule. Available, at the Company's option, for outdoor lighting applications not offered under one of the Company's standard lighting tariffs which may include new technologies. The type of luminaire(s) and services provided will be included in the contract with the Customer. This schedule is available as a pilot.

RATE

The monthly rate for this service will be determined as follows:

Monthly Services Payment = Levelized Capital Cost + Expenses + [Energy x 4.9797¢ per kWh]

Where:

Levelized Capital Cost is equal to the present value of all estimated capital related cash flows for a period corresponding to the time of engineering, design and installation of equipment through the term of the contract, including the cost of cutting and replacing of pavement in excess of one per luminaire, adjusted to a pre-tax amount and converted to a uniform monthly payment for the term of the contract. The estimated capital cash flows shall include installed cost of equipment, contingency allowances, property taxes, salvage value, adjustment to reflect additional supporting investment of general plant nature, and income tax impacts.

Expenses shall equal the present value of estimated expenses associated with the support and maintenance of the equipment, adjusted to a pre-tax amount and converted to a uniform monthly payment for the term of the contract. The estimated expenses shall include administrative and general expenses, expenses for labor and materials related to operations and maintenance, third party expenses for operations and maintenance, warranties, insurance, annual costs associated with working capital, other costs related to the operation and support of the installation, and income tax impacts.

The after tax cost of capital from the Company's most recent general rate case will be used to convert present values to uniform monthly payments.

Energy is the equal to the estimated average kilowatt hours used per month under this agreement.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

OPTIONAL PREPAYMENT OF LEVELIZED CAPITAL COST

OFFICIAL COPY

Sep 26 2023

SCHEDULE NL
NONSTANDARD LIGHTING SERVICE
(PILOT)

The Customer may, at its option, prepay the Levelized Capital Cost, in which case the monthly rate per luminaire shall be the Expenses plus Energy charges. The prepayment amount shall be the net present value of the after-tax cash flow of the Levelized Capital Cost using the current after-tax cost of capital.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

Each customer shall enter into a contract for Nonstandard Lighting Service from the Company for an original term of five (5) years, after which agreement terminates unless the customer enters into a new five (5) year contract for Nonstandard Lighting Service. In the event of early termination of an Agreement under this program, the Customer may be required to pay the Company a termination fee equal to the net present value of the Monthly Service Fee, less the Energy Charge, for the remainder of the term of the contract. However, if any successor customer has requested service supplied under this schedule prior to the effective date of the termination, the termination charge will be waived or reduced based on the contract of the successor customer.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

RIDER NM
NET METERING

AVAILABILTY

Available to residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, micro-hydro or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's distribution system.

This Rider is not available to new nonresidential applications on and after January 1, 2024. Nonresidential customers may continue to receive service under this Rider until December 31, 2033 and then must transition to receive service under Rider NSC or another applicable rider.

GENERAL PROVISIONS

1. To qualify for service under this Rider, a residential Customer may be served on any residential rate schedule. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.
2. To qualify for service under this Rider, a nonresidential Customer may be served under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the Customer's Contract Demand or 1000 kW, whichever is less.
3. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kilowatt hours supplied by the Company, plus any demand or other charges under the applicable rate schedule. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity in kilowatt hours supplied by the utility during a monthly billing period, the Customer-Generator shall be credited for the excess kilowatt hours generated during that billing period. Charges or credits will be determined using the appropriate energy rates of the applicable rate schedule as further outlined in the RATE paragraph below.
4. All other provisions of the applicable rate schedule including, but not limited to, Determination of Billing Demand, Determination of On-Peak, Off-Peak, and Discount Hours, Contract Demand, Approved Fuel Charge Adjustments, etc. will apply to service supplied under this Rider.
5. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.
6. Customers served under this Rider are not eligible to participate in NC GreenPower.
7. For any customer receiving service under a non-time of use demand rate schedule, any renewable energy credits (RECs) shall be retained by the Company.

RATE

The rate shall be based on the applicable rate schedule, and the monthly bill shall be determined as follows:

I. The Basic Customer Charge shall be the Basic Customer Charge from the applicable rate schedule.

II. The Demand Charge shall be determined from the applicable schedule as appropriate.

III. Energy Charges (or Credits) shall be based on the net kilowatt hours purchased from or delivered to the Company for the bill month. For any bill month during which the Energy Charges are a net credit, the respective Energy Charges for the month shall be zero. Any Energy Credits shall carry forward on following month's bill. If the customer is on a time of use rate, the Energy Credits shall carry forward by first applying excess On-Peak kWh against On-Peak kWh charges and excess Off-peak kWh against Off-peak kWh charges, then applying any remaining On-Peak kWh against any remaining Off-Peak kWh charges. Effective with the seasonal rate change each year, any accrued credit not used to

OFFICIAL COPY

Sep 26 2023

RIDER NM
NET METERING

reduce billed kWh usage shall be reset to zero each April 30th. Excess energy delivered prior to April 30th will only be used to reduce usage by Company prior to April 30th. Credits shall not offset the Basic Customer Charge or the Demand Charge.

IV. A Standby Charge of $2.00 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Basic Customer Charge plus, if applicable, any of the following charges: Demand Charges, the Standby Charge, and the Extra Facilities Charge.

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt demand delivered by the Company to the Customer, and to measure the net kilowatt-hours purchased by the Customer or delivered to the Company. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

OFFICIAL COPY

Sep 26 2023

RIDER NM
NET METERING

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY
Sep 26 2023

RIDER SCG
SMALL CUSTOMER GENERATOR

AVAILABILITY

Available, at the Company's option, for residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, hydroelectric or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point interconnected with and operated in parallel with the Company's system. The Customer's generation system will be used to offset the Customer's energy and if applicable, demand requirements, supplied by the Company to the Customer. The Customer will be billed for all energy purchased from the Company under the applicable rate schedule and the excess energy will be purchased by the Company at the credit rate listed below. The Company reserves the right to limit the number of Customers allowed to interconnect generation systems and equipment on an individual electric circuit or substation. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.

This Rider is available to Customers who install electric energy systems and contract with the Company for service under this Rider subject to the following conditions:

1. Residential Customers

   To qualify for service under this Rider, a residential Customer must be receiving service under one of the Company's residential service schedules. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.

2. Nonresidential Customers

   To qualify for service under this Rider, a nonresidential Customer must be receiving service under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed Customer's Contract Demand or 1000 kW, whichever is less. The Contract Demand shall be the maximum demand to be delivered under normal conditions to the Customer excluding output from the Customer's installed electric energy system.

RATE

I. The applicable rate schedule for energy delivered to the Customer, and demand if applicable, shall be the rate schedule for which the Customer qualifies and / or selects for the Customer's class of service.

II. The following charges and credits will be added to the Customer's bill calculated under Paragraph I. above:

CHARGES

Supplemental Basic Customer Charge per month:	$3.92
Standby Charge per month, if applicable:	$2.00
(Refer to Determination of Standby Charges section below)	

CREDITS

The Customer will receive credits for all excess energy delivered by the Customer to the Company equal to the most recently approved Schedule PP (NC) Variable Rate Energy Credit applicable to the Customer's generation type (Interconnected to the Distribution System). Unless otherwise specified in the Company's contract with the Customer, payment of credits under this Schedule do not convey to the Company the right to renewable energy credits (RECS) associated with the energy delivered to the Company by the Customer.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Minimum Bill calculated from the Rate Schedule with which this Rider is used, plus the Supplemental Basic Customer Charge, plus, if applicable, the Standby Charge and the monthly Extra Facilities charge.

OFFICIAL COPY

Sep 26 2023

RIDER SCG
SMALL CUSTOMER GENERATOR

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt-hours delivered by the Company to the Customer, and if applicable, the kilowatt demand. The Company will also furnish, install, own and maintain metering equipment to measure the kilowatt-hours delivered from the Customer to the Company. The Customer's service will be metered with a single, bi-directional meter, which records independently the flow of electricity in each direction through the meter. The Company may require a contribution in aid of construction if it is required to provide to the Customer a metering installation that is deemed to be economically infeasible. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

DETERMINATION OF STANDBY CHARGES

The Standby Charge shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

DEFINITION OF "NAMEPLATE RATING"

The term "Nameplate Rating" shall mean the maximum electrical output capability of the Customer's generation system and equipment at any time.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor and to impose an Extra Facilities Charge accordingly, solely at the option of the Company. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

OFFICIAL COPY

Sep 26 2023

RIDER SCG
SMALL CUSTOMER GENERATOR

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing. The Company reserves the right to offer or require a contract for a longer original term of years, as specified in the individual contract with the customer, when justified by the circumstances.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY

Sep 26 2023

RIDER NSC
NON-RESIDENTIAL SOLAR CHOICE

AVAILABILITY

Available to non-residential Customer-Generators receiving concurrent service from the Company, on a metered rate schedule, except as indicated under General Provisions. A Customer-Generator is an owner, operator, or lessee of an electric generation unit that generates or discharges electricity from a renewable energy resource, including an energy storage device configured to receive electrical charge solely from an onsite renewable energy resource. The renewable net energy metered (NEM) generation, which may include a solar photovoltaic; solar thermal; wind powered; hydroelectric; geothermal; tidal or wave energy; recycling resource; hydrogen fueled or combined heat and power derived from renewable resources; or biomass fueled generation source of energy, must be installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's system. The generation must be located at a single premise owned, operated, leased or otherwise controlled by the Customer. The system may either be owned by the Customer or by a lessor and leased to the Customer.

Customers applying for service under this Rider must be served under an approved general service or industrial rate schedule that includes time-of-use (TOU) periods.

If Customer receives electric service under a schedule other than a TOU schedule with demand rates, any renewable energy credit or "green tags" shall be provided by Customer at no cost to Company. If service is received under a time-of-use schedule with demand rates, all renewable energy credits or "green tags" shall be retained solely by Customer.

GENERAL PROVISIONS

1. To qualify for service under this Rider, the Customer must comply with all applicable interconnection standards and must provide, in writing, the Nameplate Capacity of the Customer's installed renewable generation system. Any subsequent change to the Nameplate Capacity must be provided by Customer to Company in writing by no later than 60 days following the change.

2. To qualify for service under this Rider, the Customer must not be served on another parallel generation rate schedule or rider. For Customer-owned facilities, the Nameplate Capacity of Customer's installed renewable generation system and equipment must not exceed the lesser of 5,000 kW AC or 100% of the Customer's contract demand which shall approximate the Customer's maximum expected demand. For leased facilities, the Nameplate Capacity of Customer's installed renewable generation system and equipment must not exceed the lesser of 1,000 kW AC or 100% of the Customer's contract demand which shall approximate the Customer's maximum expected demand.

3. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.

4. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kWh supplied by the Company plus any demand or other charges under the applicable rate schedule or riders.

5. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity supplied by the Company during a monthly billing period, the Customer-Generator shall be credited for the net excess energy in kWh generated during that billing period at the Monthly Credit rate below.

6. Net electricity will be calculated for each TOU period, in descending order by price. Any net excess energy from one TOU period will be applied to the next TOU period, as applicable. After net electricity has been calculated for all TOU periods, the Customer-Generator shall be credited for any remaining net excess energy at the Monthly Credit rate below.

7. In the event the Company determines that it is necessary to increase the capacity of facilities beyond those required to serve the Customer's electrical requirement or to install a dedicated transformer or other equipment to protect the safety and adequacy of electric service provided to other customers, the Customer shall pay the estimated cost of the required transformer or other equipment above the estimated cost which the Company would otherwise have normally incurred to serve the Customer's electrical requirement, in advance of receiving service under this Rider.

OFFICIAL COPY

Sep 26 2023

RIDER NSC
NON-RESIDENTIAL SOLAR CHOICE

8. A Standby Charge of $2.00 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a TOU demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

RATE

All provisions of the applicable schedule and other applicable riders will apply to service supplied under this Rider, except as modified herein. In addition to all charges in the applicable rate schedule for Customer's net electrical usage, the following credit will be applied to net electricity delivered to the grid by Customer's renewable generation as specified under General Provisions:

Monthly Credit for Net Excess Energy, per kWh	$0.0335

METERING REQUIREMENTS

The Company will furnish, install, own and maintain a billing meter to measure the kW demand delivered by the Company to the Customer, and to measure the net kWh purchased by the Customer or delivered to the Company. For renewable generation capacity of 20 kW AC or less, the billing meter will be a single, bi-directional meter which records independently the net flow of electricity in each direction through the meter, unless Customer's overall electrical requirement merits a different meter. For larger renewable generation capacities, the Company may elect to require two meters with 30-minute interval capabilities to separately record Customer's electrical consumption and the total generator output, which will be electronically netted for billing. The Customer grants the Company the right to install, operate, and monitor special equipment to measure the Customer's generating system output, or any part thereof, and to obtain any other data necessary to determine the operating characteristics and effects of the installation. All metering shall be at a location that is readily accessible by the Company.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities Charge shall not apply.

POWER FACTOR

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kWh, as appropriate. The Company reserves the right to install facilities

OFFICIAL COPY

Sep 26 2023

RIDER NSC
NON-RESIDENTIAL SOLAR CHOICE

necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generation system is less than 20 kW and uses an inverter.

CONTRACT PERIOD

The Customer shall enter into a contract for service under this Rider for a minimum original term of one (1) year, and the contract shall automatically renew thereafter, except that either party may terminate the contract after one year by giving at least 60 days prior notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the renewable generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early termination, in accordance with the Company's Service Regulations.

OFFICIAL COPY
Sep 28 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Annualized Base and Total Revenue at Present and Proposed Rates - Rate Year 0
Beveridge Direct Exhibit No. 2

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Proposed Change in EDIT-4 Rider	Total Revenue at Proposed Rates	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)				(C) + (H) + (I) + (J)	(K) - (G)	(L) / (G)	
1	**Residential**	**2,410,826,481**	**2,610,549,946**	**199,723,466**	**8.3%**	**60,672,314**	**2,471,498,795**	**60,672,502**	**(4,371,761)**	**(5,197,683)**	**2,661,653,004**	**190,154,209**	**7.7%**	**22,379,004,323**
2	RS	1,395,820,116	1,504,941,812	109,121,695	7.8%	34,229,829	1,430,049,945	34,249,549	(2,812,008)	(2,909,118)	1,533,470,234	103,420,289	7 2%	12,518,109,925
3	ES	14,176,213	15,054,866	878,653	6.2%	349,287	14,525,501	349,287	(12,145)	(30,711)	15,361,297	835,796	5 8%	132,230,485
4	RS-CPP	377,798	0	(377,798)	-100%	9,728	387,526	0	0	0	0	(387,526)	-100%	3,591,365
5	RS-TOU-CPP	323,910	0	(323,910)	-100%	8,383	332,293	0	0	0	0	(332,293)	-100%	3,086,298
6	RS-TOUD-DPP	330,079	0	(330,079)	-100%	8,614	338,693	0	0	0	0	(338,693)	-100%	3,260,783
7	RSTC	40,363	336,062	295,699	732.6%	1,113	41,477	8,207	(800)	(696)	342,773	301,296	726.4%	368,762
8	RE	990,359,954	1,080,275,308	89,915,354	9.1%	25,822,024	1,016,181,978	25,839,951	(1,561,112)	(2,235,984)	1,102,318,164	86,136,185	8 5%	9,620,481,323
9	ESA	4,209,724	4,512,582	302,858	7.2%	112,813	4,322,538	112,813	(6,693)	(9,744)	4,608,958	286,420	6.6%	41,954,365
10	RE-CPP	371,748	0	(371,748)	-100%	10,233	381,982	0	0	0	0	(381,982)	-100%	3,807,268
11	RE-TOU-CPP	309,396	0	(309,396)	-100%	8,609	318,005	0	0	0	0	(318,005)	-100%	3,168,009
12	RE-TOUD-DPP	291,773	0	(291,773)	-100%	8,133	299,906	0	0	0	0	(299,906)	-100%	3,158,164
13	RETC	58,642	426,237	367,595	626.8%	1,634	60,276	10,781	(545)	(932)	435,542	375,266	622.6%	588,563
14	RT	4,156,763	5,003,079	846,317	20.4%	101,913	4,258,675	101,913	21,542	(10,498)	5,116,036	857,361	20.1%	45,199,014
15	**General Service**	**848,825,304**	**913,675,331**	**64,850,027**	**7.6%**	**88,861,688**	**937,686,992**	**88,865,149**	**4,028,918**	**(1,286,458)**	**1,005,282,941**	**67,595,949**	**7.2%**	**9,233,500,466**
16	BC	3,287,528	3,547,699	260,170	7.9%	719,347	4,006,875	719,347	133,115	(2,841)	4,397,319	390,444	9.7%	20,392,317
17	SGS	467,778,822	505,121,918	37,343,096	8.0%	50,949,273	518,728,094	51,013,561	3,576,550	(602,003)	559,110,025	40,381,931	7 8%	4,315,891,995
18	SGS-CATV	6,093,009	6,573,940	480,930	7.9%	1,313,987	7,406,996	1,313,987	182,692	(8,953)	8,061,665	654,669	8 8%	64,260,449
19	SGS-CPP	319,732	0	(319,732)	-100%	38,068	357,800	0	0	0	0	(357,800)	-100%	2,909,187
20	SGS-TOU-CPP	118,099	0	(118,099)	-100%	14,319	132,418	0	0	0	0	(132,418)	-100%	1,074,987
21	SGS-TOUD-DPP	175,927	0	(175,927)	-100%	19,965	195,892	0	0	0	0	(195,892)	-100%	1,868,578
22	SGSTC	13,892	125,815	111,923	805.6%	1,599	15,491	13,124	1,061	(140)	139,860	124,369	802 8%	113,598
23	LGS	370,892,935	398,149,936	27,257,000	7.3%	35,803,303	406,696,238	35,803,303	135,408	(672,497)	433,416,149	26,719,911	6.6%	4,826,822,606
24	PG	145,359	156,024	10,666	7.3%	1,827	147,186	1,827	94	(23)	157,922	10,736	7 3%	166,751
25	**Industrial**	**152,656,803**	**164,803,233**	**12,146,430**	**8.0%**	**14,271,527**	**166,928,330**	**14,271,527**	**55,708**	**(217,767)**	**178,912,700**	**11,984,370**	**7.2%**	**2,080,236,237**
26	I	152,656,803	164,803,233	12,146,430	8.0%	14,271,527	166,928,330	14,271,527	55,708	(217,767)	178,912,700	11,984,370	7 2%	2,080,236,237
27	**OPT**	**1,369,947,271**	**1,448,440,090**	**78,492,819**	**5.7%**	**100,499,143**	**1,470,446,414**	**100,560,259**	**267,914**	**(2,923,793)**	**1,546,344,471**	**75,898,056**	**5.2%**	**23,504,701,520**
28	OPTVPL	455,277,532	484,533,054	29,255,522	6.4%	27,289,008	482,566,540	27,289,008	1,934	(1,008,795)	510,815,201	28,248,661	5 9%	8,438,110,251
29	OPTVPM	44,675,750	47,537,335	2,861,585	6.4%	3,104,090	47,779,841	3,104,090	1,076	(97,162)	50,545,340	2,765,499	5 8%	772,176,778
30	OPTVPS	22,338,556	23,291,486	952,930	4.3%	1,750,610	24,089,166	1,750,610	2,153	(49,157)	24,995,092	905,926	3 8%	400,394,617
31	OPTVSL	145,838,696	155,057,370	9,218,674	6.3%	9,149,381	154,988,077	9,149,381	998	(301,145)	163,906,605	8,918,527	5 8%	2,620,988,729
32	OPTVSM	136,132,792	143,548,293	7,415,501	5.4%	8,467,373	144,600,165	8,467,373	3,760	(270,912)	151,748,514	7,148,349	4 9%	2,261,832,401
33	OPTVSS	474,902,604	499,501,141	24,598,536	5.2%	46,038,141	520,940,746	46,133,144	257,930	(962,066)	544,930,150	23,989,404	4.6%	7,157,637,089
34	OPTE	638,461	0	(638,461)	-100.0%	33,887	672,348	0	0	0	0	(672,348)	-100 0%	10,878,770
35	OPTVT	90,142,879	94,971,412	4,828,533	5.4%	4,666,652	94,809,531	4,666,652	62	(234,556)	99,403,570	4,594,039	4 8%	1,842,682,887

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Annualized Base and Total Revenue at Present and Proposed Rates - Rate Year 0
Beveridge Direct Exhibit No. 2

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Proposed Change in EDIT-4 Rider	Total Revenue at Proposed Rates	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)				(C) + (H) + (I) + (J)	(K) - (G)	(L) / (G)	
36	**Lighting**	**143,430,118**	**174,919,030**	**31,488,912**	**22.0%**	**(5,818,793)**	**137,611,325**	**(5,818,793)**	**90,995**	**(593,428)**	**168,597,804**	**30,986,480**	**22.5%**	**585,940,938**
37	OL	101,957,739	123,280,898	21,323,159	20.9%	(3,670,226)	98,287,513	(3,670,226)	0	(345,931)	119,264,741	20,977,228	21 3%	336,841,610
38	S	2,694	3,257	564	20.9%	544	3,237	544	62	(41)	3,822	585	18.1%	40,116
39	PL	39,434,707	49,228,361	9,793,653	24.8%	(2,610,678)	36,824,029	(2,610,678)	0	(246,065)	46,371,617	9,547,588	25 9%	239,599,669
40	NL	66,267	64,927	(1,340)	-2.0%	(879)	65,388	(879)	0	(83)	63,965	(1,422)	-2 2%	80,674
41	TS	1,968,711	2,341,587	372,876	18.9%	462,446	2,431,157	462,446	90,932	(1,307)	2,893,658	462,502	19 0%	9,378,869
42	**Total before HP**	**4,925,685,977**	**5,312,387,631**	**386,701,654**	**7.9%**	**258,485,879**	**5,184,171,856**	**258,550,644**	**71,775**	**(10,219,130)**	**5,560,790,920**	**376,619,064**	**7.3%**	**57,783,383,486**
43	**Hourly Pricing**	**14,298,059**	**14,750,640**	**452,581**	**3.2%**	**(772,864)**	**13,525,195**	**(772,864)**	**0**	**(37,792)**	**13,940,069**	**414,874**	**3.1%**	**285,031,905**
44	HP-I	(82)	(82)	0	0.0%	(2)	(84)	(2)	0	0	0	84	100 0%	(3,924)
45	HP-LGS	395,115	413,983	18,869	4.8%	6,129	401,244	6,129	0	(825)	419,287	18,044	4 5%	5,920,238
46	HP-OPTVGPL	10,586,222	10,865,282	279,060	2.6%	(627,753)	9,958,469	(627,753)	0	(27,541)	10,209,988	251,520	2 5%	197,673,569
47	HP-OPTVGPS	1,289,421	1,324,868	35,447	2.7%	(41,579)	1,247,843	(41,579)	0	(3,621)	1,279,668	31,826	2.6%	25,992,848
48	HP-OPTVIPL	43,721	110,315	66,594	152.3%	(45,791)	(2,069)	(45,791)	0	(2,001)	62,524	64,593	3121 3%	19,110,823
49	HP-OPTVIPS	750,831	761,922	11,091	1.5%	(11,299)	739,531	(11,299)	0	(669)	749,953	10,422	1.4%	6,393,760
50	HP-OPTVISL	1,047,935	1,078,609	30,674	2.9%	(52,746)	995,189	(52,746)	0	(2,663)	1,023,200	28,010	2 8%	25,440,491
51	HP-OPTVISS	184,897	195,743	10,846	5.9%	177	185,074	177	0	(472)	195,448	10,374	5.6%	4,504,100
52	**Total**	**4,939,984,036**	**5,327,138,271**	**387,154,235**	**7.8%**	**257,713,015**	**5,197,697,051**	**257,777,781**	**71,775**	**(10,256,922)**	**5,574,730,989**	**377,033,938**	**7.3%**	**58,068,415,391**

[1] Annualized Base Revenues include:
Test year sales priced at present or proposed rates
+ Standby charges
+ Service riders: Riders EC, GSA, SG and SCG
+ Present base fuel effective 9/1/2022
+ Spread factor adjustment of estimated to reported Per Book

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Annualized Base and Total Revenue at Present and Proposed Rates - Rate Year 1
Beveridge Direct Exhibit No. 2_1

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Proposed Change in EDIT-4 Rider	Total Revenue at Proposed Rates	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)				(C) + (H) + (I) + (J)	(K) - (G)	(L) / (G)	
1	**Residential**	**2,410,826,481**	**2,675,235,903**	**264,409,423**	**11.0%**	**60,672,314**	**2,471,498,795**	**60,672,502**	**(4,371,761)**	**(5,197,683)**	**2,726,338,962**	**254,840,167**	**10.3%**	**22,379,004,323**
2	RS	1,395,820,116	1,541,026,705	145,206,589	10.4%	34,229,829	1,430,049,945	34,249,549	(2,812,008)	(2,909,118)	1,569,555,128	139,505,182	9 8%	12,518,109,925
3	ES	14,176,213	15,412,767	1,236,554	8.7%	349,287	14,525,501	349,287	(12,145)	(30,711)	15,719,198	1,193,698	8 2%	132,230,485
4	RS-CPP	377,798	0	(377,798)	-100%	9,728	387,526	0	0	0	0	(387,526)	-100%	3,591,365
5	RS-TOU-CPP	323,910	0	(323,910)	-100%	8,383	332,293	0	0	0	0	(332,293)	-100%	3,086,298
6	RS-TOUD-DPP	330,079	0	(330,079)	-100%	8,614	338,693	0	0	0	0	(338,693)	-100%	3,260,783
7	RSTC	40,363	332,703	292,340	724.3%	1,113	41,477	8,207	(800)	(696)	339,414	297,938	718 3%	368,762
8	RE	990,359,954	1,108,339,673	117,979,719	11.9%	25,822,024	1,016,181,978	25,839,951	(1,561,112)	(2,235,984)	1,130,382,528	114,200,550	11 2%	9,620,481,323
9	ESA	4,209,724	4,627,558	417,833	9.9%	112,813	4,322,538	112,813	(6,693)	(9,744)	4,723,934	401,396	9 3%	41,954,365
10	RE-CPP	371,748	0	(371,748)	-100%	10,233	381,982	0	0	0	0	(381,982)	-100%	3,807,268
11	RE-TOU-CPP	309,396	0	(309,396)	-100%	8,609	318,005	0	0	0	0	(318,005)	-100%	3,168,009
12	RE-TOUD-DPP	291,773	0	(291,773)	-100%	8,133	299,906	0	0	0	0	(299,906)	-100%	3,158,164
13	RETC	58,642	426,343	367,701	627.0%	1,634	60,276	10,781	(545)	(932)	435,648	375,372	622 8%	588,563
14	RT	4,156,763	5,070,154	913,391	22.0%	101,913	4,258,675	101,913	21,542	(10,498)	5,183,111	924,435	21.7%	45,199,014
15	**General Service**	**848,825,304**	**939,100,106**	**90,274,802**	**10.6%**	**88,861,688**	**937,686,992**	**88,865,149**	**4,028,918**	**(1,286,458)**	**1,030,707,715**	**93,020,723**	**9.9%**	**9,233,500,466**
16	BC	3,287,528	3,654,366	366,837	11.2%	719,347	4,006,875	719,347	133,115	(2,841)	4,503,986	497,111	12.4%	20,392,317
17	SGS	467,778,822	520,539,225	52,760,403	11.3%	50,949,273	518,728,094	51,013,561	3,576,550	(602,003)	574,527,332	55,799,238	10 8%	4,315,891,995
18	SGS-CATV	6,093,009	6,771,156	678,147	11.1%	1,313,987	7,406,996	1,313,987	182,692	(8,953)	8,258,882	851,885	11 5%	64,260,449
19	SGS-CPP	319,732	0	(319,732)	-100%	38,068	357,800	0	0	0	0	(357,800)	-100%	2,909,187
20	SGS-TOU-CPP	118,099	0	(118,099)	-100%	14,319	132,418	0	0	0	0	(132,418)	-100%	1,074,987
21	SGS-TOUD-DPP	175,927	0	(175,927)	-100%	19,965	195,892	0	0	0	0	(195,892)	-100%	1,868,578
22	SGSTC	13,892	129,333	115,440	831.0%	1,599	15,491	13,124	1,061	(140)	143,377	127,886	825 5%	113,598
23	LGS	370,892,935	407,846,002	36,953,067	10.0%	35,803,303	406,696,238	35,803,303	135,408	(672,497)	443,112,216	36,415,977	9 0%	4,826,822,606
24	PG	145,359	160,025	14,666	10.1%	1,827	147,186	1,827	94	(23)	161,922	14,736	10 0%	166,751
25	**Industrial**	**152,656,803**	**169,216,826**	**16,560,023**	**10.8%**	**14,271,527**	**166,928,330**	**14,271,527**	**55,708**	**(217,767)**	**183,326,294**	**16,397,963**	**9.8%**	**2,080,236,237**
26	I	152,656,803	169,216,826	16,560,023	10.8%	14,271,527	166,928,330	14,271,527	55,708	(217,767)	183,326,294	16,397,963	9 8%	2,080,236,237
27	**OPT**	**1,369,947,271**	**1,476,420,557**	**106,473,285**	**7.8%**	**100,499,143**	**1,470,446,414**	**100,560,259**	**267,914**	**(2,923,793)**	**1,574,324,937**	**103,878,523**	**7.1%**	**23,504,701,520**
28	OPTVPL	455,277,532	493,875,651	38,598,118	8.5%	27,289,008	482,566,540	27,289,008	1,934	(1,008,795)	520,157,798	37,591,258	7 8%	8,438,110,251
29	OPTVPM	44,675,750	48,446,351	3,770,600	8.4%	3,104,090	47,779,841	3,104,090	1,076	(97,162)	51,454,355	3,674,514	7.7%	772,176,778
30	OPTVPS	22,338,556	23,736,869	1,398,314	6.3%	1,750,610	24,089,166	1,750,610	2,153	(49,157)	25,440,476	1,351,310	5.6%	400,394,617
31	OPTVSL	145,838,696	158,164,057	12,325,362	8.5%	9,149,381	154,988,077	9,149,381	998	(301,145)	167,013,292	12,025,215	7 8%	2,620,988,729
32	OPTVSM	136,132,792	146,424,811	10,292,019	7.6%	8,467,373	144,600,165	8,467,373	3,760	(270,912)	154,625,032	10,024,867	6 9%	2,261,832,401
33	OPTVSS	474,902,604	509,383,062	34,480,458	7.3%	46,038,141	520,940,746	46,133,144	257,930	(962,066)	554,812,071	33,871,326	6 5%	7,157,637,089
34	OPTE	638,461	0	(638,461)	-100.0%	33,887	672,348	0	0	0	0	(672,348)	-100 0%	10,878,770
35	OPTVT	90,142,879	96,389,755	6,246,876	6.9%	4,666,652	94,809,531	4,666,652	62	(234,556)	100,821,913	6,012,382	6 3%	1,842,682,887

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276

Annualized Base and Total Revenue at Present and Proposed Rates - Rate Year 1
Beveridge Direct Exhibit No. 2_1

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Proposed Change in EDIT-4 Rider	Total Revenue at Proposed Rates	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)				(C) + (H) + (I) + (J)	(K) - (G)	(L) / (G)	
36	**Lighting**	**143,430,118**	**182,506,974**	**39,076,856**	**27.2%**	**(5,818,793)**	**137,611,325**	**(5,818,793)**	**90,995**	**(593,428)**	**176,185,748**	**38,574,424**	**28.0%**	**585,940,938**
37	OL	101,957,739	128,558,497	26,600,758	26.1%	(3,670,226)	98,287,513	(3,670,226)	0	(345,931)	124,542,339	26,254,826	26.7%	336,841,610
38	S	2,694	3,397	704	26.1%	544	3,237	544	62	(41)	3,962	725	22.4%	40,116
39	PL	39,434,707	51,409,708	11,975,001	30.4%	(2,610,678)	36,824,029	(2,610,678)	0	(246,065)	48,552,965	11,728,936	31 9%	239,599,669
40	NL	66,267	64,927	(1,340)	-2.0%	(879)	65,388	(879)	0	(83)	63,965	(1,422)	-2 2%	80,674
41	TS	1,968,711	2,470,445	501,734	25.5%	462,446	2,431,157	462,446	90,932	(1,307)	3,022,517	591,360	24 3%	9,378,869
42	**Total before HP**	**4,925,685,977**	**5,442,480,366**	**516,794,390**	**10.5%**	**258,485,879**	**5,184,171,856**	**258,550,644**	**71,775**	**(10,219,130)**	**5,690,883,655**	**506,711,800**	**9.8%**	**57,783,383,486**
43	**Hourly Pricing**	**14,298,059**	**14,788,181**	**490,122**	**3.4%**	**(772,864)**	**13,525,195**	**(772,864)**	**0**	**(37,792)**	**13,977,610**	**452,415**	**3.3%**	**285,031,905**
44	HP-I	(82)	(82)	0	0.0%	(2)	(84)	(2)	0	0	0	84	100 0%	(3,924)
45	HP-LGS	395,115	415,903	20,789	5.3%	6,129	401,244	6,129	0	(825)	421,208	19,964	5 0%	5,920,238
46	HP-OPTVGPL	10,586,222	10,892,157	305,936	2.9%	(627,753)	9,958,469	(627,753)	0	(27,541)	10,236,864	278,395	2 8%	197,673,569
47	HP-OPTVGPS	1,289,421	1,326,233	36,812	2.9%	(41,579)	1,247,843	(41,579)	0	(3,621)	1,281,033	33,191	2.7%	25,992,848
48	HP-OPTVIPL	43,721	115,948	72,227	165.2%	(45,791)	(2,069)	(45,791)	0	(2,001)	68,157	70,226	3393 5%	19,110,823
49	HP-OPTVIPS	750,831	762,456	11,625	1.5%	(11,299)	739,531	(11,299)	0	(669)	750,487	10,956	1 5%	6,393,760
50	HP-OPTVISL	1,047,935	1,079,440	31,504	3.0%	(52,746)	995,189	(52,746)	0	(2,663)	1,024,030	28,841	2 9%	25,440,491
51	HP-OPTVISS	184,897	196,126	11,229	6.1%	177	185,074	177	0	(472)	195,831	10,758	5 8%	4,504,100
52	**Total**	**4,939,984,036**	**5,457,268,548**	**517,284,512**	**10.5%**	**257,713,015**	**5,197,697,051**	**257,777,781**	**71,775**	**(10,256,922)**	**5,704,861,266**	**507,164,215**	**9.8%**	**58,068,415,391**

[1] Annualized Base Revenues include:

Test year sales priced at present or proposed rates
+ Standby charges
+ Service riders: Riders EC, GSA, SG and SCG
+ Present base fuel effective 9/1/2022
+ Spread factor adjustment of estimated to reported Per Book

OFFICIAL COPY
Sep 28 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Annualized Base and Total Revenue at Present and Proposed Rates - Rate Year 2
Beveridge Direct Exhibit No. 2_2

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Proposed Change in EDIT-4 Rider	Total Revenue at Proposed Rates	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)				(C) + (H) + (I) + (J)	(K) - (G)	(L) / (G)	
1	**Residential**	**2,410,826,481**	**2,770,592,219**	**359,765,738**	**14.9%**	**60,672,314**	**2,471,498,795**	**60,672,502**	**(4,371,761)**	**(5,197,683)**	**2,821,695,277**	**350,196,482**	**14.2%**	**22,379,004,323**
2	RS	1,395,820,116	1,589,832,704	194,012,588	13.9%	34,229,829	1,430,049,945	34,249,549	(2,812,008)	(2,909,118)	1,618,361,127	188,311,182	13 2%	12,518,109,925
3	ES	14,176,213	15,906,836	1,730,622	12.2%	349,287	14,525,501	349,287	(12,145)	(30,711)	16,213,267	1,687,766	11.6%	132,230,485
4	RS-CPP	377,798	0	(377,798)	-100%	9,728	387,526	0	0	0	0	(387,526)	-100%	3,591,365
5	RS-TOU-CPP	323,910	0	(323,910)	-100%	8,383	332,293	0	0	0	0	(332,293)	-100%	3,086,298
6	RS-TOUD-DPP	330,079	0	(330,079)	-100%	8,614	338,693	0	0	0	0	(338,693)	-100%	3,260,783
7	RSTC	40,363	340,513	300,150	743.6%	1,113	41,477	8,207	(800)	(696)	347,224	305,747	737 2%	368,762
8	RE	990,359,954	1,154,107,615	163,747,661	16.5%	25,822,024	1,016,181,978	25,839,951	(1,561,112)	(2,235,984)	1,176,150,470	159,968,492	15.7%	9,620,481,323
9	ESA	4,209,724	4,818,691	608,967	14.5%	112,813	4,322,538	112,813	(6,693)	(9,744)	4,915,067	592,529	13.7%	41,954,365
10	RE-CPP	371,748	0	(371,748)	-100%	10,233	381,982	0	0	0	0	(381,982)	-100%	3,807,268
11	RE-TOU-CPP	309,396	0	(309,396)	-100%	8,609	318,005	0	0	0	0	(318,005)	-100%	3,168,009
12	RE-TOUD-DPP	291,773	0	(291,773)	-100%	8,133	299,906	0	0	0	0	(299,906)	-100%	3,158,164
13	RETC	58,642	439,081	380,438	648.7%	1,634	60,276	10,781	(545)	(932)	448,385	388,109	643 9%	588,563
14	RT	4,156,763	5,146,779	990,017	23.8%	101,913	4,258,675	101,913	21,542	(10,498)	5,259,736	1,001,061	23 5%	45,199,014
15	**General Service**	**848,825,304**	**972,618,903**	**123,793,599**	**14.6%**	**88,861,688**	**937,686,992**	**88,865,149**	**4,028,918**	**(1,286,458)**	**1,064,226,513**	**126,539,521**	**13.5%**	**9,233,500,466**
16	BC	3,287,528	3,801,389	513,860	15.6%	719,347	4,006,875	719,347	133,115	(2,841)	4,651,009	644,134	16.1%	20,392,317
17	SGS	467,778,822	541,646,217	73,867,396	15.8%	50,949,273	518,728,094	51,013,561	3,576,550	(602,003)	595,634,325	76,906,230	14 8%	4,315,891,995
18	SGS-CATV	6,093,009	7,048,134	955,125	15.7%	1,313,987	7,406,996	1,313,987	182,692	(8,953)	8,535,860	1,128,864	15 2%	64,260,449
19	SGS-CPP	319,732	0	(319,732)	-100%	38,068	357,800	0	0	0	0	(357,800)	-100%	2,909,187
20	SGS-TOU-CPP	118,099	0	(118,099)	-100%	14,319	132,418	0	0	0	0	(132,418)	-100%	1,074,987
21	SGS-TOUD-DPP	175,927	0	(175,927)	-100%	19,965	195,892	0	0	0	0	(195,892)	-100%	1,868,578
22	SGSTC	13,892	133,856	119,963	863.5%	1,599	15,491	13,124	1,061	(140)	147,901	132,409	854.7%	113,598
23	LGS	370,892,935	419,824,788	48,931,853	13.2%	35,803,303	406,696,238	35,803,303	135,408	(672,497)	455,091,002	48,394,763	11 9%	4,826,822,606
24	PG	145,359	164,519	19,160	13.2%	1,827	147,186	1,827	94	(23)	166,416	19,230	13.1%	166,751
25	**Industrial**	**152,656,803**	**174,524,810**	**21,868,007**	**14.3%**	**14,271,527**	**166,928,330**	**14,271,527**	**55,708**	**(217,767)**	**188,634,278**	**21,705,947**	**13.0%**	**2,080,236,237**
26	I	152,656,803	174,524,810	21,868,007	14.3%	14,271,527	166,928,330	14,271,527	55,708	(217,767)	188,634,278	21,705,947	13 0%	2,080,236,237
27	**OPT**	**1,369,947,271**	**1,506,647,484**	**136,700,212**	**10.0%**	**100,499,143**	**1,470,446,414**	**100,560,259**	**267,914**	**(2,923,793)**	**1,604,551,864**	**134,105,450**	**9.1%**	**23,504,701,520**
28	OPTVPL	455,277,532	503,543,984	48,266,452	10.6%	27,289,008	482,566,540	27,289,008	1,934	(1,008,795)	529,826,131	47,259,591	9 8%	8,438,110,251
29	OPTVPM	44,675,750	49,392,441	4,716,691	10.6%	3,104,090	47,779,841	3,104,090	1,076	(97,162)	52,400,446	4,620,605	9.7%	772,176,778
30	OPTVPS	22,338,556	24,203,680	1,865,124	8.3%	1,750,610	24,089,166	1,750,610	2,153	(49,157)	25,907,287	1,818,120	7 5%	400,394,617
31	OPTVSL	145,838,696	161,692,278	15,853,582	10.9%	9,149,381	154,988,077	9,149,381	998	(301,145)	170,541,512	15,553,435	10 0%	2,620,988,729
32	OPTVSM	136,132,792	149,674,809	13,542,017	9.9%	8,467,373	144,600,165	8,467,373	3,760	(270,912)	157,875,030	13,274,865	9 2%	2,261,832,401
33	OPTVSS	474,902,604	520,504,479	45,601,874	9.6%	46,038,141	520,940,746	46,133,144	257,930	(962,066)	565,933,488	44,992,742	8.6%	7,157,637,089
34	OPTE	638,461	0	(638,461)	-100.0%	33,887	672,348	0	0	0	0	(672,348)	-100 0%	10,878,770
35	OPTVT	90,142,879	97,635,812	7,492,933	8.3%	4,666,652	94,809,531	4,666,652	62	(234,556)	102,067,970	7,258,439	7.7%	1,842,682,887

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Annualized Base and Total Revenue at Present and Proposed Rates - Rate Year 2
Beveridge Direct Exhibit No. 2_2

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Proposed Change in EDIT-4 Rider	Total Revenue at Proposed Rates	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)				(C) + (H) + (I) + (J)	(K) - (G)	(L) / (G)	
36	**Lighting**	**143,430,118**	**189,719,774**	**46,289,656**	**32.3%**	**(5,818,793)**	**137,611,325**	**(5,818,793)**	**90,995**	**(593,428)**	**183,398,548**	**45,787,223**	**33.3%**	**585,940,938**
37	OL	101,957,739	133,497,802	31,540,063	30.9%	(3,670,226)	98,287,513	(3,670,226)	0	(345,931)	129,481,645	31,194,132	31.7%	336,841,610
38	S	2,694	3,527	834	31.0%	544	3,237	544	62	(41)	4,092	855	26.4%	40,116
39	PL	39,434,707	53,499,336	14,064,629	35.7%	(2,610,678)	36,824,029	(2,610,678)	0	(246,065)	50,642,593	13,818,563	37 5%	239,599,669
40	NL	66,267	64,927	(1,340)	-2.0%	(879)	65,388	(879)	0	(83)	63,965	(1,422)	-2 2%	80,674
41	TS	1,968,711	2,654,181	685,470	34.8%	462,446	2,431,157	462,446	90,932	(1,307)	3,206,252	775,096	31 9%	9,378,869
42	**Total before HP**	**4,925,685,977**	**5,614,103,190**	**688,417,213**	**14.0%**	**258,485,879**	**5,184,171,856**	**258,550,644**	**71,775**	**(10,219,130)**	**5,862,506,479**	**678,334,623**	**13.1%**	**57,783,383,486**
43	**Hourly Pricing**	**14,298,059**	**14,830,782**	**532,723**	**3.7%**	**(772,864)**	**13,525,195**	**(772,864)**	**0**	**(37,792)**	**14,020,211**	**495,016**	**3.7%**	**285,031,905**
44	HP-I	(82)	(82)	0	0.0%	(2)	(84)	(2)	0	0	0	84	100 0%	(3,924)
45	HP-LGS	395,115	418,784	23,669	6.0%	6,129	401,244	6,129	0	(825)	424,088	22,845	5.7%	5,920,238
46	HP-OPTVGPL	10,586,222	10,921,556	335,334	3.2%	(627,753)	9,958,469	(627,753)	0	(27,541)	10,266,262	307,793	3.1%	197,673,569
47	HP-OPTVGPS	1,289,421	1,328,281	38,860	3.0%	(41,579)	1,247,843	(41,579)	0	(3,621)	1,283,081	35,238	2 8%	25,992,848
48	HP-OPTVIPL	43,721	121,600	77,879	178.1%	(45,791)	(2,069)	(45,791)	0	(2,001)	73,809	75,879	3666.6%	19,110,823
49	HP-OPTVIPS	750,831	763,256	12,425	1.7%	(11,299)	739,531	(11,299)	0	(669)	751,287	11,756	1.6%	6,393,760
50	HP-OPTVISL	1,047,935	1,080,686	32,751	3.1%	(52,746)	995,189	(52,746)	0	(2,663)	1,025,277	30,087	3 0%	25,440,491
51	HP-OPTVISS	184,897	196,702	11,805	6.4%	177	185,074	177	0	(472)	196,407	11,333	6.1%	4,504,100
52	**Total**	**4,939,984,036**	**5,628,933,972**	**688,949,936**	**13.9%**	**257,713,015**	**5,197,697,051**	**257,777,781**	**71,775**	**(10,256,922)**	**5,876,526,690**	**678,829,639**	**13.1%**	**58,068,415,391**

[1] Annualized Base Revenues include:
Test year sales priced at present or proposed rates
+ Standby charges
+ Service riders: Riders EC, GSA, SG and SCG
+ Present base fuel effective 9/1/2022
+ Spread factor adjustment of estimated to reported Per Book

OFFICIAL COPY
Sep 28 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Annualized Base and Total Revenue at Present and Proposed Rates - Rate Year 3
Beveridge Direct Exhibit No. 2_3

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Proposed Change in EDIT-4 Rider	Total Revenue at Proposed Rates	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)				(C) + (H) + (I) + (J)	(K) - (G)	(L) / (G)	
1	**Residential**	**2,410,826,481**	**2,858,535,719**	**447,709,238**	**18.6%**	**60,672,314**	**2,471,498,795**	**60,672,502**	**(4,371,761)**	**(5,197,683)**	**2,909,638,777**	**438,139,982**	**17.7%**	**22,379,004,323**
2	RS	1,395,820,116	1,629,611,219	233,791,103	16.7%	34,229,829	1,430,049,945	34,249,549	(2,812,008)	(2,909,118)	1,658,139,642	228,089,696	15 9%	12,518,109,925
3	ES	14,176,213	16,305,004	2,128,791	15.0%	349,287	14,525,501	349,287	(12,145)	(30,711)	16,611,436	2,085,935	14.4%	132,230,485
4	RS-CPP	377,798	0	(377,798)	-100%	9,728	387,526	0	0	0	0	(387,526)	-100%	3,591,365
5	RS-TOU-CPP	323,910	0	(323,910)	-100%	8,383	332,293	0	0	0	0	(332,293)	-100%	3,086,298
6	RS-TOUD-DPP	330,079	0	(330,079)	-100%	8,614	338,693	0	0	0	0	(338,693)	-100%	3,260,783
7	RSTC	40,363	346,976	306,613	759.6%	1,113	41,477	8,207	(800)	(696)	353,687	312,210	752.7%	368,762
8	RE	990,359,954	1,201,591,529	211,231,575	21.3%	25,822,024	1,016,181,978	25,839,951	(1,561,112)	(2,235,984)	1,223,634,385	207,452,406	20.4%	9,620,481,323
9	ESA	4,209,724	5,015,309	805,584	19.1%	112,813	4,322,538	112,813	(6,693)	(9,744)	5,111,685	789,147	18 3%	41,954,365
10	RE-CPP	371,748	0	(371,748)	-100%	10,233	381,982	0	0	0	0	(381,982)	-100%	3,807,268
11	RE-TOU-CPP	309,396	0	(309,396)	-100%	8,609	318,005	0	0	0	0	(318,005)	-100%	3,168,009
12	RE-TOUD-DPP	291,773	0	(291,773)	-100%	8,133	299,906	0	0	0	0	(299,906)	-100%	3,158,164
13	RETC	58,642	454,170	395,527	674.5%	1,634	60,276	10,781	(545)	(932)	463,474	403,198	668 9%	588,563
14	RT	4,156,763	5,211,512	1,054,749	25.4%	101,913	4,258,675	101,913	21,542	(10,498)	5,324,469	1,065,793	25 0%	45,199,014
15	**General Service**	**848,825,304**	**1,004,499,797**	**155,674,493**	**18.3%**	**88,861,688**	**937,686,992**	**88,865,149**	**4,028,918**	**(1,286,458)**	**1,096,107,406**	**158,420,414**	**16.9%**	**9,233,500,466**
16	BC	3,287,528	3,949,073	661,545	20.1%	719,347	4,006,875	719,347	133,115	(2,841)	4,798,694	791,818	19 8%	20,392,317
17	SGS	467,778,822	562,581,885	94,803,064	20.3%	50,949,273	518,728,094	51,013,561	3,576,550	(602,003)	616,569,993	97,841,898	18 9%	4,315,891,995
18	SGS-CATV	6,093,009	7,307,295	1,214,285	19.9%	1,313,987	7,406,996	1,313,987	182,692	(8,953)	8,795,020	1,388,024	18.7%	64,260,449
19	SGS-CPP	319,732	0	(319,732)	-100%	38,068	357,800	0	0	0	0	(357,800)	-100%	2,909,187
20	SGS-TOU-CPP	118,099	0	(118,099)	-100%	14,319	132,418	0	0	0	0	(132,418)	-100%	1,074,987
21	SGS-TOUD-DPP	175,927	0	(175,927)	-100%	19,965	195,892	0	0	0	0	(195,892)	-100%	1,868,578
22	SGSTC	13,892	138,480	124,587	896.8%	1,599	15,491	13,124	1,061	(140)	152,524	137,033	884.6%	113,598
23	LGS	370,892,935	430,354,475	59,461,540	16.0%	35,803,303	406,696,238	35,803,303	135,408	(672,497)	465,620,689	58,924,451	14 5%	4,826,822,606
24	PG	145,359	168,589	23,230	16.0%	1,827	147,186	1,827	94	(23)	170,486	23,300	15 8%	166,751
25	**Industrial**	**152,656,803**	**179,207,133**	**26,550,330**	**17.4%**	**14,271,527**	**166,928,330**	**14,271,527**	**55,708**	**(217,767)**	**193,316,600**	**26,388,270**	**15.8%**	**2,080,236,237**
26	I	152,656,803	179,207,133	26,550,330	17.4%	14,271,527	166,928,330	14,271,527	55,708	(217,767)	193,316,600	26,388,270	15 8%	2,080,236,237
27	**OPT**	**1,369,947,271**	**1,528,629,253**	**158,681,982**	**11.6%**	**100,499,143**	**1,470,446,414**	**100,560,259**	**267,914**	**(2,923,793)**	**1,626,533,633**	**156,087,219**	**10.6%**	**23,504,701,520**
28	OPTVPL	455,277,532	510,009,691	54,732,159	12.0%	27,289,008	482,566,540	27,289,008	1,934	(1,008,795)	536,291,838	53,725,298	11.1%	8,438,110,251
29	OPTVPM	44,675,750	50,016,383	5,340,632	12.0%	3,104,090	47,779,841	3,104,090	1,076	(97,162)	53,024,387	5,244,547	11 0%	772,176,778
30	OPTVPS	22,338,556	24,507,810	2,169,255	9.7%	1,750,610	24,089,166	1,750,610	2,153	(49,157)	26,211,417	2,122,251	8 8%	400,394,617
31	OPTVSL	145,838,696	164,472,437	18,633,741	12.8%	9,149,381	154,988,077	9,149,381	998	(301,145)	173,321,672	18,333,595	11 8%	2,620,988,729
32	OPTVSM	136,132,792	152,229,268	16,096,476	11.8%	8,467,373	144,600,165	8,467,373	3,760	(270,912)	160,429,488	15,829,323	10 9%	2,261,832,401
33	OPTVSS	474,902,604	529,248,157	54,345,552	11.4%	46,038,141	520,940,746	46,133,144	257,930	(962,066)	574,677,166	53,736,420	10 3%	7,157,637,089
34	OPTE	638,461	0	(638,461)	-100.0%	33,887	672,348	0	0	0	0	(672,348)	-100 0%	10,878,770
35	OPTVT	90,142,879	98,145,507	8,002,628	8.9%	4,666,652	94,809,531	4,666,652	62	(234,556)	102,577,664	7,768,134	8 2%	1,842,682,887

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Annualized Base and Total Revenue at Present and Proposed Rates - Rate Year 3
Beveridge Direct Exhibit No. 2_3

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)	(N)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Proposed Change in EDIT-4 Rider	Total Revenue at Proposed Rates	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)				(C) + (H) + (I) + (J)	(K) - (G)	(L) / (G)	
36	**Lighting**	**143,430,118**	**193,956,215**	**50,526,097**	**35.2%**	**(5,818,793)**	**137,611,325**	**(5,818,793)**	**90,995**	**(593,428)**	**187,634,989**	**50,023,664**	**36.4%**	**585,940,938**
37	OL	101,957,739	136,326,445	34,368,706	33.7%	(3,670,226)	98,287,513	(3,670,226)	0	(345,931)	132,310,287	34,022,774	34.6%	336,841,610
38	S	2,694	3,602	909	33.7%	544	3,237	544	62	(41)	4,167	930	28.7%	40,116
39	PL	39,434,707	54,715,480	15,280,773	38.7%	(2,610,678)	36,824,029	(2,610,678)	0	(246,065)	51,858,737	15,034,707	40 8%	239,599,669
40	NL	66,267	64,927	(1,340)	-2.0%	(879)	65,388	(879)	0	(83)	63,965	(1,422)	-2 2%	80,674
41	TS	1,968,711	2,845,760	877,049	44.5%	462,446	2,431,157	462,446	90,932	(1,307)	3,397,832	966,675	39 8%	9,378,869
42	**Total before HP**	**4,925,685,977**	**5,764,828,116**	**839,142,139**	**17.0%**	**258,485,879**	**5,184,171,856**	**258,550,644**	**71,775**	**(10,219,130)**	**6,013,231,405**	**829,059,549**	**16.0%**	**57,783,383,486**
43	**Hourly Pricing**	**14,298,059**	**14,868,323**	**570,264**	**4.0%**	**(772,864)**	**13,525,195**	**(772,864)**	**0**	**(37,792)**	**14,057,752**	**532,557**	**3.9%**	**285,031,905**
44	HP-I	(82)	(82)	0	0.0%	(2)	(84)	(2)	0	0	0	84	100 0%	(3,924)
45	HP-LGS	395,115	420,704	25,590	6.5%	6,129	401,244	6,129	0	(825)	426,008	24,765	6 2%	5,920,238
46	HP-OPTVGPL	10,586,222	10,948,431	362,210	3.4%	(627,753)	9,958,469	(627,753)	0	(27,541)	10,293,138	334,669	3.4%	197,673,569
47	HP-OPTVGPS	1,289,421	1,329,646	40,225	3.1%	(41,579)	1,247,843	(41,579)	0	(3,621)	1,284,446	36,603	2 9%	25,992,848
48	HP-OPTVIPL	43,721	127,233	83,512	191.0%	(45,791)	(2,069)	(45,791)	0	(2,001)	79,442	81,511	3938 8%	19,110,823
49	HP-OPTVIPS	750,831	763,790	12,959	1.7%	(11,299)	739,531	(11,299)	0	(669)	751,821	12,290	1.7%	6,393,760
50	HP-OPTVISL	1,047,935	1,081,517	33,581	3.2%	(52,746)	995,189	(52,746)	0	(2,663)	1,026,107	30,918	3.1%	25,440,491
51	HP-OPTVISS	184,897	197,085	12,188	6.6%	177	185,074	177	0	(472)	196,791	11,717	6 3%	4,504,100
52	**Total**	**4,939,984,036**	**5,779,696,439**	**839,712,404**	**17.0%**	**257,713,015**	**5,197,697,051**	**257,777,781**	**71,775**	**(10,256,922)**	**6,027,289,158**	**829,592,106**	**16.0%**	**58,068,415,391**

[1] Annualized Base Revenues include:
Test year sales priced at present or proposed rates
+ Standby charges
+ Service riders: Riders EC, GSA, SG and SCG
+ Present base fuel effective 9/1/2022
+ Spread factor adjustment of estimated to reported Per Book

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Annualized Base and Total Revenue at Present and Proposed Rates without Change in EDIT-4 Rider - Rate Year 0
Beveridge Direct Exhibit No. 3

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Total Revenue at Proposed Rates without Change in EDIT-4 Rider	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)			(C) + (H) + (I)	(J) - (G)	(K) / (G)	
1	**Residential**	**2,410,826,481**	**2,610,549,946**	**199,723,466**	**8.3%**	**60,672,314**	**2,471,498,795**	**60,672,502**	**(4,371,761)**	**2,666,850,688**	**195,351,893**	**7.9%**	**22,379,004,323**
2	RS	1,395,820,116	1,504,941,812	109,121,695	7.8%	34,229,829	1,430,049,945	34,249,549	(2,812,008)	1,536,379,352	106,329,407	7.4%	12,518,109,925
3	ES	14,176,213	15,054,866	878,653	6.2%	349,287	14,525,501	349,287	(12,145)	15,392,008	866,508	6.0%	132,230,485
4	RS-CPP	377,798	0	(377,798)	-100%	9,728	387,526	0	0	0	(387,526)	-100%	3,591,365
5	RS-TOU-CPP	323,910	0	(323,910)	-100%	8,383	332,293	0	0	0	(332,293)	-100%	3,086,298
6	RS-TOUD-DPP	330,079	0	(330,079)	-100%	8,614	338,693	0	0	0	(338,693)	-100%	3,260,783
7	RSTC	40,363	336,062	295,699	732.6%	1,113	41,477	8,207	(800)	343,469	301,992	728.1%	368,762
8	RE	990,359,954	1,080,275,308	89,915,354	9.1%	25,822,024	1,016,181,978	25,839,951	(1,561,112)	1,104,554,147	88,372,169	8.7%	9,620,481,323
9	ESA	4,209,724	4,512,582	302,858	7.2%	112,813	4,322,538	112,813	(6,693)	4,618,703	296,165	6.9%	41,954,365
10	RE-CPP	371,748	0	(371,748)	-100%	10,233	381,982	0	0	0	(381,982)	-100%	3,807,268
11	RE-TOU-CPP	309,396	0	(309,396)	-100%	8,609	318,005	0	0	0	(318,005)	-100%	3,168,009
12	RE-TOUD-DPP	291,773	0	(291,773)	-100%	8,133	299,906	0	0	0	(299,906)	-100%	3,158,164
13	RETC	58,642	426,237	367,595	626.8%	1,634	60,276	10,781	(545)	436,474	376,198	624.1%	588,563
14	RT	4,156,763	5,003,079	846,317	20.4%	101,913	4,258,675	101,913	21,542	5,126,534	867,859	20.4%	45,199,014
15	**General Service**	**848,825,304**	**913,675,331**	**64,850,027**	**7.6%**	**88,861,688**	**937,686,992**	**88,865,149**	**4,028,918**	**1,006,569,399**	**68,882,407**	**7.3%**	**9,233,500,466**
16	BC	3,287,528	3,547,699	260,170	7.9%	719,347	4,006,875	719,347	133,115	4,400,160	393,285	9.8%	20,392,317
17	SGS	467,778,822	505,121,918	37,343,096	8.0%	50,949,273	518,728,094	51,013,561	3,576,550	559,712,029	40,983,934	7.9%	4,315,891,995
18	SGS-CATV	6,093,009	6,573,940	480,930	7.9%	1,313,987	7,406,996	1,313,987	182,692	8,070,618	663,622	9.0%	64,260,449
19	SGS-CPP	319,732	0	(319,732)	-100%	38,068	357,800	0	0	0	(357,800)	-100%	2,909,187
20	SGS-TOU-CPP	118,099	0	(118,099)	-100%	14,319	132,418	0	0	0	(132,418)	-100%	1,074,987
21	SGS-TOUD-DPP	175,927	0	(175,927)	-100%	19,965	195,892	0	0	0	(195,892)	-100%	1,868,578
22	SGSTC	13,892	125,815	111,923	805.6%	1,599	15,491	13,124	1,061	140,000	124,508	803.7%	113,598
23	LGS	370,892,935	398,149,936	27,257,000	7.3%	35,803,303	406,696,238	35,803,303	135,408	434,088,647	27,392,408	6.7%	4,826,822,606
24	PG	145,359	156,024	10,666	7.3%	1,827	147,186	1,827	94	157,945	10,759	7.3%	166,751
25	**Industrial**	**152,656,803**	**164,803,233**	**12,146,430**	**8.0%**	**14,271,527**	**166,928,330**	**14,271,527**	**55,708**	**179,130,468**	**12,202,137**	**7.3%**	**2,080,236,237**
26	I	152,656,803	164,803,233	12,146,430	8.0%	14,271,527	166,928,330	14,271,527	55,708	179,130,468	12,202,137	7.3%	2,080,236,237
27	**OPT**	**1,369,947,271**	**1,448,440,090**	**78,492,819**	**5.7%**	**100,499,143**	**1,470,446,414**	**100,560,259**	**267,914**	**1,549,268,264**	**78,821,850**	**5.4%**	**23,504,701,520**
28	OPTVPL	455,277,532	484,533,054	29,255,522	6.4%	27,289,008	482,566,540	27,289,008	1,934	511,823,996	29,257,456	6.1%	8,438,110,251
29	OPTVPM	44,675,750	47,537,335	2,861,585	6.4%	3,104,090	47,779,841	3,104,090	1,076	50,642,502	2,862,661	6.0%	772,176,778
30	OPTVPS	22,338,556	23,291,486	952,930	4.3%	1,750,610	24,089,166	1,750,610	2,153	25,044,249	955,083	4.0%	400,394,617
31	OPTVSL	145,838,696	155,057,370	9,218,674	6.3%	9,149,381	154,988,077	9,149,381	998	164,207,749	9,219,672	5.9%	2,620,988,729
32	OPTVSM	136,132,792	143,548,293	7,415,501	5.4%	8,467,373	144,600,165	8,467,373	3,760	152,019,426	7,419,261	5.1%	2,261,832,401
33	OPTVSS	474,902,604	499,501,141	24,598,536	5.2%	46,038,141	520,940,746	46,133,144	257,930	545,892,215	24,951,470	4.8%	7,157,637,089

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276

Annualized Base and Total Revenue at Present and Proposed Rates without Change in EDIT-4 Rider - Rate Year 0

Beveridge Direct Exhibit No. 3

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Total Revenue at Proposed Rates without Change in EDIT-4 Rider	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)			(C) + (H) + (I)	(J) - (G)	(K) / (G)	
34	OPTE	638,461	0	(638,461)	-100.0%	33,887	672,348	0	0	0	(672,348)	-100.0%	10,878,770
35	OPTVT	90,142,879	94,971,412	4,828,533	5.4%	4,666,652	94,809,531	4,666,652	62	99,638,126	4,828,596	5.1%	1,842,682,887
36	**Lighting**	**143,430,118**	**174,919,030**	**31,488,912**	**22.0%**	**(5,818,793)**	**137,611,325**	**(5,818,793)**	**90,995**	**169,191,232**	**31,579,907**	**22.9%**	**585,940,938**
37	OL	101,957,739	123,280,898	21,323,159	20.9%	(3,670,226)	98,287,513	(3,670,226)	0	119,610,672	21,323,159	21.7%	336,841,610
38	S	2,694	3,257	564	20.9%	544	3,237	544	62	3,863	626	19.3%	40,116
39	PL	39,434,707	49,228,361	9,793,653	24.8%	(2,610,678)	36,824,029	(2,610,678)	0	46,617,683	9,793,653	26.6%	239,599,669
40	NL	66,267	64,927	(1,340)	-2.0%	(879)	65,388	(879)	0	64,048	(1,340)	-2.0%	80,674
41	TS	1,968,711	2,341,587	372,876	18.9%	462,446	2,431,157	462,446	90,932	2,894,965	463,808	19.1%	9,378,869
42	**Total before HP**	**4,925,685,977**	**5,312,387,631**	**386,701,654**	**7.9%**	**258,485,879**	**5,184,171,856**	**258,550,644**	**71,775**	**5,571,010,050**	**386,838,194**	**7.5%**	**57,783,383,486**
43	**Hourly Pricing**	**14,298,059**	**14,750,640**	**452,581**	**3.2%**	**(772,864)**	**13,525,195**	**(772,864)**	**0**	**13,977,861**	**452,665**	**3.3%**	**285,031,905**
44	HP-I	(82)	(82)	0	0.0%	(2)	(84)	(2)	0	0	84	100.0%	(3,924)
45	HP-LGS	395,115	413,983	18,869	4.8%	6,129	401,244	6,129	0	420,112	18,869	4.7%	5,920,238
46	HP-OPTVGPL	10,586,222	10,865,282	279,060	2.6%	(627,753)	9,958,469	(627,753)	0	10,237,529	279,060	2.8%	197,673,569
47	HP-OPTVGPS	1,289,421	1,324,868	35,447	2.7%	(41,579)	1,247,843	(41,579)	0	1,283,290	35,447	2.8%	25,992,848
48	HP-OPTVIPL	43,721	110,315	66,594	152.3%	(45,791)	(2,069)	(45,791)	0	64,525	66,594	3218.0%	19,110,823
49	HP-OPTVIPS	750,831	761,922	11,091	1.5%	(11,299)	739,531	(11,299)	0	750,623	11,091	1.5%	6,393,760
50	HP-OPTVISL	1,047,935	1,078,609	30,674	2.9%	(52,746)	995,189	(52,746)	0	1,025,863	30,674	3.1%	25,440,491
51	HP-OPTVISS	184,897	195,743	10,846	5.9%	177	185,074	177	0	195,919	10,846	5.9%	4,504,100
52	**Total**	**4,939,984,036**	**5,327,138,271**	**387,154,235**	**7.8%**	**257,713,015**	**5,197,697,051**	**257,777,781**	**71,775**	**5,584,987,911**	**387,290,859**	**7.5%**	**58,068,415,391**

[1] Annualized Base Revenues include:

Test year sales priced at present or proposed rates
+ Standby charges
+ Service riders: Riders EC, GSA, SG and SCG
+ Present base fuel effective 9/1/2022
+ Spread factor adjustment of estimated to reported Per Book

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Annualized Base and Total Revenue at Present and Proposed Rates without Change in EDIT-4 Rider - Rate Year 1
Beveridge Direct Exhibit No. 3_1

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Total Revenue at Proposed Rates without Change in EDIT-4 Rider	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)			(C) + (H) + (I)	(J) - (G)	(K) / (G)	
1	**Residential**	**2,410,826,481**	**2,675,235,903**	**264,409,423**	**11.0%**	**60,672,314**	**2,471,498,795**	**60,672,502**	**(4,371,761)**	**2,731,536,645**	**260,037,850**	**10.5%**	**22,379,004,323**
2	RS	1,395,820,116	1,541,026,705	145,206,589	10.4%	34,229,829	1,430,049,945	34,249,549	(2,812,008)	1,572,464,246	142,414,300	10.0%	12,518,109,925
3	ES	14,176,213	15,412,767	1,236,554	8.7%	349,287	14,525,501	349,287	(12,145)	15,749,910	1,224,409	8.4%	132,230,485
4	RS-CPP	377,798	0	(377,798)	-100%	9,728	387,526	0	0	0	(387,526)	-100%	3,591,365
5	RS-TOU-CPP	323,910	0	(323,910)	-100%	8,383	332,293	0	0	0	(332,293)	-100%	3,086,298
6	RS-TOUD-DPP	330,079	0	(330,079)	-100%	8,614	338,693	0	0	0	(338,693)	-100%	3,260,783
7	RSTC	40,363	332,703	292,340	724.3%	1,113	41,477	8,207	(800)	340,111	298,634	720.0%	368,762
8	RE	990,359,954	1,108,339,673	117,979,719	11.9%	25,822,024	1,016,181,978	25,839,951	(1,561,112)	1,132,618,512	116,436,534	11.5%	9,620,481,323
9	ESA	4,209,724	4,627,558	417,833	9.9%	112,813	4,322,538	112,813	(6,693)	4,733,678	411,141	9.5%	41,954,365
10	RE-CPP	371,748	0	(371,748)	-100%	10,233	381,982	0	0	0	(381,982)	-100%	3,807,268
11	RE-TOU-CPP	309,396	0	(309,396)	-100%	8,609	318,005	0	0	0	(318,005)	-100%	3,168,009
12	RE-TOUD-DPP	291,773	0	(291,773)	-100%	8,133	299,906	0	0	0	(299,906)	-100%	3,158,164
13	RETC	58,642	426,343	367,701	627.0%	1,634	60,276	10,781	(545)	436,580	376,303	624.3%	588,563
14	RT	4,156,763	5,070,154	913,391	22.0%	101,913	4,258,675	101,913	21,542	5,193,609	934,933	22.0%	45,199,014
15	**General Service**	**848,825,304**	**939,100,106**	**90,274,802**	**10.6%**	**88,861,688**	**937,686,992**	**88,865,149**	**4,028,918**	**1,031,994,173**	**94,307,182**	**10.1%**	**9,233,500,466**
16	BC	3,287,528	3,654,366	366,837	11.2%	719,347	4,006,875	719,347	133,115	4,506,827	499,952	12.5%	20,392,317
17	SGS	467,778,822	520,539,225	52,760,403	11.3%	50,949,273	518,728,094	51,013,561	3,576,550	575,129,336	56,401,241	10.9%	4,315,891,995
18	SGS-CATV	6,093,009	6,771,156	678,147	11.1%	1,313,987	7,406,996	1,313,987	182,692	8,267,835	860,839	11.6%	64,260,449
19	SGS-CPP	319,732	0	(319,732)	-100%	38,068	357,800	0	0	0	(357,800)	-100%	2,909,187
20	SGS-TOU-CPP	118,099	0	(118,099)	-100%	14,319	132,418	0	0	0	(132,418)	-100%	1,074,987
21	SGS-TOUD-DPP	175,927	0	(175,927)	-100%	19,965	195,892	0	0	0	(195,892)	-100%	1,868,578
22	SGSTC	13,892	129,333	115,440	831.0%	1,599	15,491	13,124	1,061	143,517	128,026	826.4%	113,598
23	LGS	370,892,935	407,846,002	36,953,067	10.0%	35,803,303	406,696,238	35,803,303	135,408	443,784,713	37,088,475	9.1%	4,826,822,606
24	PG	145,359	160,025	14,666	10.1%	1,827	147,186	1,827	94	161,946	14,760	10.0%	166,751
25	**Industrial**	**152,656,803**	**169,216,826**	**16,560,023**	**10.8%**	**14,271,527**	**166,928,330**	**14,271,527**	**55,708**	**183,544,061**	**16,615,731**	**10.0%**	**2,080,236,237**
26	I	152,656,803	169,216,826	16,560,023	10.8%	14,271,527	166,928,330	14,271,527	55,708	183,544,061	16,615,731	10.0%	2,080,236,237
27	**OPT**	**1,369,947,271**	**1,476,420,557**	**106,473,285**	**7.8%**	**100,499,143**	**1,470,446,414**	**100,560,259**	**267,914**	**1,577,248,730**	**106,802,316**	**7.3%**	**23,504,701,520**
28	OPTVPL	455,277,532	493,875,651	38,598,118	8.5%	27,289,008	482,566,540	27,289,008	1,934	521,166,593	38,600,053	8.0%	8,438,110,251
29	OPTVPM	44,675,750	48,446,351	3,770,600	8.4%	3,104,090	47,779,841	3,104,090	1,076	51,551,517	3,771,676	7.9%	772,176,778
30	OPTVPS	22,338,556	23,736,869	1,398,314	6.3%	1,750,610	24,089,166	1,750,610	2,153	25,489,633	1,400,466	5.8%	400,394,617
31	OPTVSL	145,838,696	158,164,057	12,325,362	8.5%	9,149,381	154,988,077	9,149,381	998	167,314,437	12,326,360	8.0%	2,620,988,729
32	OPTVSM	136,132,792	146,424,811	10,292,019	7.6%	8,467,373	144,600,165	8,467,373	3,760	154,895,944	10,295,779	7.1%	2,261,832,401
33	OPTVSS	474,902,604	509,383,062	34,480,458	7.3%	46,038,141	520,940,746	46,133,144	257,930	555,774,137	34,833,391	6.7%	7,157,637,089

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Annualized Base and Total Revenue at Present and Proposed Rates without Change in EDIT-4 Rider - Rate Year 1
Beveridge Direct Exhibit No. 3_1

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Total Revenue at Proposed Rates without Change in EDIT-4 Rider	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)			(C) + (H) + (I)	(J) - (G)	(K) / (G)	
34	OPTE	638,461	0	(638,461)	-100.0%	33,887	672,348	0	0	0	(672,348)	-100.0%	10,878,770
35	OPTVT	90,142,879	96,389,755	6,246,876	6.9%	4,666,652	94,809,531	4,666,652	62	101,056,469	6,246,938	6.6%	1,842,682,887
36	**Lighting**	**143,430,118**	**182,506,974**	**39,076,856**	**27.2%**	**(5,818,793)**	**137,611,325**	**(5,818,793)**	**90,995**	**176,779,176**	**39,167,851**	**28.5%**	**585,940,938**
37	OL	101,957,739	128,558,497	26,600,758	26.1%	(3,670,226)	98,287,513	(3,670,226)	0	124,888,271	26,600,758	27.1%	336,841,610
38	S	2,694	3,397	704	26.1%	544	3,237	544	62	4,003	766	23.7%	40,116
39	PL	39,434,707	51,409,708	11,975,001	30.4%	(2,610,678)	36,824,029	(2,610,678)	0	48,799,030	11,975,001	32.5%	239,599,669
40	NL	66,267	64,927	(1,340)	-2.0%	(879)	65,388	(879)	0	64,048	(1,340)	-2.0%	80,674
41	TS	1,968,711	2,470,445	501,734	25.5%	462,446	2,431,157	462,446	90,932	3,023,823	592,666	24.4%	9,378,869
42	**Total before HP**	**4,925,685,977**	**5,442,480,366**	**516,794,390**	**10.5%**	**258,485,879**	**5,184,171,856**	**258,550,644**	**71,775**	**5,701,102,785**	**516,930,929**	**10.0%**	**57,783,383,486**
43	**Hourly Pricing**	**14,298,059**	**14,788,181**	**490,122**	**3.4%**	**(772,864)**	**13,525,195**	**(772,864)**	**0**	**14,015,402**	**490,207**	**3.6%**	**285,031,905**
44	HP-I	(82)	(82)	0	0.0%	(2)	(84)	(2)	0	0	84	100.0%	(3,924)
45	HP-LGS	395,115	415,903	20,789	5.3%	6,129	401,244	6,129	0	422,033	20,789	5.2%	5,920,238
46	HP-OPTVGPL	10,586,222	10,892,157	305,936	2.9%	(627,753)	9,958,469	(627,753)	0	10,264,405	305,936	3.1%	197,673,569
47	HP-OPTVGPS	1,289,421	1,326,233	36,812	2.9%	(41,579)	1,247,843	(41,579)	0	1,284,655	36,812	3.0%	25,992,848
48	HP-OPTVIPL	43,721	115,948	72,227	165.2%	(45,791)	(2,069)	(45,791)	0	70,157	72,227	3490.2%	19,110,823
49	HP-OPTVIPS	750,831	762,456	11,625	1.5%	(11,299)	739,531	(11,299)	0	751,156	11,625	1.6%	6,393,760
50	HP-OPTVISL	1,047,935	1,079,440	31,504	3.0%	(52,746)	995,189	(52,746)	0	1,026,694	31,504	3.2%	25,440,491
51	HP-OPTVISS	184,897	196,126	11,229	6.1%	177	185,074	177	0	196,303	11,229	6.1%	4,504,100
52	**Total**	**4,939,984,036**	**5,457,268,548**	**517,284,512**	**10.5%**	**257,713,015**	**5,197,697,051**	**257,777,781**	**71,775**	**5,715,118,188**	**517,421,136**	**10.0%**	**58,068,415,391**

[1] Annualized Base Revenues include:
Test year sales priced at present or proposed rates
+ Standby charges
+ Service riders: Riders EC, GSA, SG and SCG
+ Present base fuel effective 9/1/2022
+ Spread factor adjustment of estimated to reported Per Book

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Annualized Base and Total Revenue at Present and Proposed Rates without Change in EDIT-4 Rider - Rate Year 2
Beveridge Direct Exhibit No. 3_2

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Total Revenue at Proposed Rates without Change in EDIT-4 Rider	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)			(C) + (H) + (I)	(J) - (G)	(K) / (G)	
1	**Residential**	**2,410,826,481**	**2,770,592,219**	**359,765,738**	**14.9%**	**60,672,314**	**2,471,498,795**	**60,672,502**	**(4,371,761)**	**2,826,892,960**	**355,394,165**	**14.4%**	**22,379,004,323**
2	RS	1,395,820,116	1,589,832,704	194,012,588	13.9%	34,229,829	1,430,049,945	34,249,549	(2,812,008)	1,621,270,245	191,220,300	13.4%	12,518,109,925
3	ES	14,176,213	15,906,836	1,730,622	12.2%	349,287	14,525,501	349,287	(12,145)	16,243,978	1,718,478	11.8%	132,230,485
4	RS-CPP	377,798	0	(377,798)	-100%	9,728	387,526	0	0	0	(387,526)	-100%	3,591,365
5	RS-TOU-CPP	323,910	0	(323,910)	-100%	8,383	332,293	0	0	0	(332,293)	-100%	3,086,298
6	RS-TOUD-DPP	330,079	0	(330,079)	-100%	8,614	338,693	0	0	0	(338,693)	-100%	3,260,783
7	RSTC	40,363	340,513	300,150	743.6%	1,113	41,477	8,207	(800)	347,920	306,444	738.8%	368,762
8	RE	990,359,954	1,154,107,615	163,747,661	16.5%	25,822,024	1,016,181,978	25,839,951	(1,561,112)	1,178,386,454	162,204,475	16.0%	9,620,481,323
9	ESA	4,209,724	4,818,691	608,967	14.5%	112,813	4,322,538	112,813	(6,693)	4,924,812	602,274	13.9%	41,954,365
10	RE-CPP	371,748	0	(371,748)	-100%	10,233	381,982	0	0	0	(381,982)	-100%	3,807,268
11	RE-TOU-CPP	309,396	0	(309,396)	-100%	8,609	318,005	0	0	0	(318,005)	-100%	3,168,009
12	RE-TOUD-DPP	291,773	0	(291,773)	-100%	8,133	299,906	0	0	0	(299,906)	-100%	3,158,164
13	RETC	58,642	439,081	380,438	648.7%	1,634	60,276	10,781	(545)	449,317	389,041	645.4%	588,563
14	RT	4,156,763	5,146,779	990,017	23.8%	101,913	4,258,675	101,913	21,542	5,270,234	1,011,559	23.8%	45,199,014
15	**General Service**	**848,825,304**	**972,618,903**	**123,793,599**	**14.6%**	**88,861,688**	**937,686,992**	**88,865,149**	**4,028,918**	**1,065,512,971**	**127,825,979**	**13.6%**	**9,233,500,466**
16	BC	3,287,528	3,801,389	513,860	15.6%	719,347	4,006,875	719,347	133,115	4,653,850	646,975	16.1%	20,392,317
17	SGS	467,778,822	541,646,217	73,867,396	15.8%	50,949,273	518,728,094	51,013,561	3,576,550	596,236,328	77,508,234	14.9%	4,315,891,995
18	SGS-CATV	6,093,009	7,048,134	955,125	15.7%	1,313,987	7,406,996	1,313,987	182,692	8,544,813	1,137,817	15.4%	64,260,449
19	SGS-CPP	319,732	0	(319,732)	-100%	38,068	357,800	0	0	0	(357,800)	-100%	2,909,187
20	SGS-TOU-CPP	118,099	0	(118,099)	-100%	14,319	132,418	0	0	0	(132,418)	-100%	1,074,987
21	SGS-TOUD-DPP	175,927	0	(175,927)	-100%	19,965	195,892	0	0	0	(195,892)	-100%	1,868,578
22	SGSTC	13,892	133,856	119,963	863.5%	1,599	15,491	13,124	1,061	148,040	132,549	855.6%	113,598
23	LGS	370,892,935	419,824,788	48,931,853	13.2%	35,803,303	406,696,238	35,803,303	135,408	455,763,499	49,067,261	12.1%	4,826,822,606
24	PG	145,359	164,519	19,160	13.2%	1,827	147,186	1,827	94	166,440	19,254	13.1%	166,751
25	**Industrial**	**152,656,803**	**174,524,810**	**21,868,007**	**14.3%**	**14,271,527**	**166,928,330**	**14,271,527**	**55,708**	**188,852,045**	**21,923,715**	**13.1%**	**2,080,236,237**
26	I	152,656,803	174,524,810	21,868,007	14.3%	14,271,527	166,928,330	14,271,527	55,708	188,852,045	21,923,715	13.1%	2,080,236,237
27	**OPT**	**1,369,947,271**	**1,506,647,484**	**136,700,212**	**10.0%**	**100,499,143**	**1,470,446,414**	**100,560,259**	**267,914**	**1,607,475,657**	**137,029,243**	**9.3%**	**23,504,701,520**
28	OPTVPL	455,277,532	503,543,984	48,266,452	10.6%	27,289,008	482,566,540	27,289,008	1,934	530,834,926	48,268,386	10.0%	8,438,110,251
29	OPTVPM	44,675,750	49,392,441	4,716,691	10.6%	3,104,090	47,779,841	3,104,090	1,076	52,497,608	4,717,767	9.9%	772,176,778
30	OPTVPS	22,338,556	24,203,680	1,865,124	8.3%	1,750,610	24,089,166	1,750,610	2,153	25,956,444	1,867,277	7.8%	400,394,617
31	OPTVSL	145,838,696	161,692,278	15,853,582	10.9%	9,149,381	154,988,077	9,149,381	998	170,842,657	15,854,580	10.2%	2,620,988,729
32	OPTVSM	136,132,792	149,674,809	13,542,017	9.9%	8,467,373	144,600,165	8,467,373	3,760	158,145,942	13,545,777	9.4%	2,261,832,401
33	OPTVSS	474,902,604	520,504,479	45,601,874	9.6%	46,038,141	520,940,746	46,133,144	257,930	566,895,553	45,954,808	8.8%	7,157,637,089

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276

Annualized Base and Total Revenue at Present and Proposed Rates without Change in EDIT-4 Rider - Rate Year 2

Beveridge Direct Exhibit No. 3_2

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Total Revenue at Proposed Rates without Change in EDIT-4 Rider	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)			(C) + (H) + (I)	(J) - (G)	(K) / (G)	
34	OPTE	638,461	0	(638,461)	-100.0%	33,887	672,348	0	0	0	(672,348)	-100.0%	10,878,770
35	OPTVT	90,142,879	97,635,812	7,492,933	8.3%	4,666,652	94,809,531	4,666,652	62	102,302,526	7,492,996	7.9%	1,842,682,887
36	**Lighting**	**143,430,118**	**189,719,774**	**46,289,656**	**32.3%**	**(5,818,793)**	**137,611,325**	**(5,818,793)**	**90,995**	**183,991,976**	**46,380,651**	**33.7%**	**585,940,938**
37	OL	101,957,739	133,497,802	31,540,063	30.9%	(3,670,226)	98,287,513	(3,670,226)	0	129,827,576	31,540,063	32.1%	336,841,610
38	S	2,694	3,527	834	31.0%	544	3,237	544	62	4,134	896	27.7%	40,116
39	PL	39,434,707	53,499,336	14,064,629	35.7%	(2,610,678)	36,824,029	(2,610,678)	0	50,888,658	14,064,629	38.2%	239,599,669
40	NL	66,267	64,927	(1,340)	-2.0%	(879)	65,388	(879)	0	64,048	(1,340)	-2.0%	80,674
41	TS	1,968,711	2,654,181	685,470	34.8%	462,446	2,431,157	462,446	90,932	3,207,559	776,402	31.9%	9,378,869
42	**Total before HP**	**4,925,685,977**	**5,614,103,190**	**688,417,213**	**14.0%**	**258,485,879**	**5,184,171,856**	**258,550,644**	**71,775**	**5,872,725,609**	**688,553,753**	**13.3%**	**57,783,383,486**
43	**Hourly Pricing**	**14,298,059**	**14,830,782**	**532,723**	**3.7%**	**(772,864)**	**13,525,195**	**(772,864)**	**0**	**14,058,003**	**532,807**	**3.9%**	**285,031,905**
44	HP-I	(82)	(82)	0	0.0%	(2)	(84)	(2)	0	0	84	100.0%	(3,924)
45	HP-LGS	395,115	418,784	23,669	6.0%	6,129	401,244	6,129	0	424,913	23,669	5.9%	5,920,238
46	HP-OPTVGPL	10,586,222	10,921,556	335,334	3.2%	(627,753)	9,958,469	(627,753)	0	10,293,803	335,334	3.4%	197,673,569
47	HP-OPTVGPS	1,289,421	1,328,281	38,860	3.0%	(41,579)	1,247,843	(41,579)	0	1,286,702	38,860	3.1%	25,992,848
48	HP-OPTVIPL	43,721	121,600	77,879	178.1%	(45,791)	(2,069)	(45,791)	0	75,810	77,879	3763.3%	19,110,823
49	HP-OPTVIPS	750,831	763,256	12,425	1.7%	(11,299)	739,531	(11,299)	0	751,957	12,425	1.7%	6,393,760
50	HP-OPTVISL	1,047,935	1,080,686	32,751	3.1%	(52,746)	995,189	(52,746)	0	1,027,940	32,751	3.3%	25,440,491
51	HP-OPTVISS	184,897	196,702	11,805	6.4%	177	185,074	177	0	196,878	11,805	6.4%	4,504,100
52	**Total**	**4,939,984,036**	**5,628,933,972**	**688,949,936**	**13.9%**	**257,713,015**	**5,197,697,051**	**257,777,781**	**71,775**	**5,886,783,612**	**689,086,560**	**13.3%**	**58,068,415,391**

[1] Annualized Base Revenues include:

Test year sales priced at present or proposed rates
+ Standby charges
+ Service riders: Riders EC, GSA, SG and SCG
+ Present base fuel effective 9/1/2022
+ Spread factor adjustment of estimated to reported Per Book

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Annualized Base and Total Revenue at Present and Proposed Rates without Change in EDIT-4 Rider - Rate Year 3
Beveridge Direct Exhibit No. 3_3

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Total Revenue at Proposed Rates without Change in EDIT-4 Rider	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)			(C) + (H) + (I)	(J) - (G)	(K) / (G)	
1	**Residential**	**2,410,826,481**	**2,858,535,719**	**447,709,238**	**18.6%**	**60,672,314**	**2,471,498,795**	**60,672,502**	**(4,371,761)**	**2,914,836,460**	**443,337,665**	**17.9%**	**22,379,004,323**
2	RS	1,395,820,116	1,629,611,219	233,791,103	16.7%	34,229,829	1,430,049,945	34,249,549	(2,812,008)	1,661,048,760	230,998,814	16.2%	12,518,109,925
3	ES	14,176,213	16,305,004	2,128,791	15.0%	349,287	14,525,501	349,287	(12,145)	16,642,147	2,116,646	14.6%	132,230,485
4	RS-CPP	377,798	0	(377,798)	-100%	9,728	387,526	0	0	0	(387,526)	-100%	3,591,365
5	RS-TOU-CPP	323,910	0	(323,910)	-100%	8,383	332,293	0	0	0	(332,293)	-100%	3,086,298
6	RS-TOUD-DPP	330,079	0	(330,079)	-100%	8,614	338,693	0	0	0	(338,693)	-100%	3,260,783
7	RSTC	40,363	346,976	306,613	759.6%	1,113	41,477	8,207	(800)	354,383	312,907	754.4%	368,762
8	RE	990,359,954	1,201,591,529	211,231,575	21.3%	25,822,024	1,016,181,978	25,839,951	(1,561,112)	1,225,870,368	209,688,390	20.6%	9,620,481,323
9	ESA	4,209,724	5,015,309	805,584	19.1%	112,813	4,322,538	112,813	(6,693)	5,121,429	798,891	18.5%	41,954,365
10	RE-CPP	371,748	0	(371,748)	-100%	10,233	381,982	0	0	0	(381,982)	-100%	3,807,268
11	RE-TOU-CPP	309,396	0	(309,396)	-100%	8,609	318,005	0	0	0	(318,005)	-100%	3,168,009
12	RE-TOUD-DPP	291,773	0	(291,773)	-100%	8,133	299,906	0	0	0	(299,906)	-100%	3,158,164
13	RETC	58,642	454,170	395,527	674.5%	1,634	60,276	10,781	(545)	464,406	404,130	670.5%	588,563
14	RT	4,156,763	5,211,512	1,054,749	25.4%	101,913	4,258,675	101,913	21,542	5,334,966	1,076,291	25.3%	45,199,014
15	**General Service**	**848,825,304**	**1,004,499,797**	**155,674,493**	**18.3%**	**88,861,688**	**937,686,992**	**88,865,149**	**4,028,918**	**1,097,393,865**	**159,706,873**	**17.0%**	**9,233,500,466**
16	BC	3,287,528	3,949,073	661,545	20.1%	719,347	4,006,875	719,347	133,115	4,801,535	794,660	19.8%	20,392,317
17	SGS	467,778,822	562,581,885	94,803,064	20.3%	50,949,273	518,728,094	51,013,561	3,576,550	617,171,996	98,443,902	19.0%	4,315,891,995
18	SGS-CATV	6,093,009	7,307,295	1,214,285	19.9%	1,313,987	7,406,996	1,313,987	182,692	8,803,973	1,396,977	18.9%	64,260,449
19	SGS-CPP	319,732	0	(319,732)	-100%	38,068	357,800	0	0	0	(357,800)	-100%	2,909,187
20	SGS-TOU-CPP	118,099	0	(118,099)	-100%	14,319	132,418	0	0	0	(132,418)	-100%	1,074,987
21	SGS-TOUD-DPP	175,927	0	(175,927)	-100%	19,965	195,892	0	0	0	(195,892)	-100%	1,868,578
22	SGSTC	13,892	138,480	124,587	896.8%	1,599	15,491	13,124	1,061	152,664	137,173	885.5%	113,598
23	LGS	370,892,935	430,354,475	59,461,540	16.0%	35,803,303	406,696,238	35,803,303	135,408	466,293,187	59,596,948	14.7%	4,826,822,606
24	PG	145,359	168,589	23,230	16.0%	1,827	147,186	1,827	94	170,509	23,324	15.8%	166,751
25	**Industrial**	**152,656,803**	**179,207,133**	**26,550,330**	**17.4%**	**14,271,527**	**166,928,330**	**14,271,527**	**55,708**	**193,534,368**	**26,606,037**	**15.9%**	**2,080,236,237**
26	I	152,656,803	179,207,133	26,550,330	17.4%	14,271,527	166,928,330	14,271,527	55,708	193,534,368	26,606,037	15.9%	2,080,236,237
27	**OPT**	**1,369,947,271**	**1,528,629,253**	**158,681,982**	**11.6%**	**100,499,143**	**1,470,446,414**	**100,560,259**	**267,914**	**1,629,457,427**	**159,011,012**	**10.8%**	**23,504,701,520**
28	OPTVPL	455,277,532	510,009,691	54,732,159	12.0%	27,289,008	482,566,540	27,289,008	1,934	537,300,633	54,734,093	11.3%	8,438,110,251
29	OPTVPM	44,675,750	50,016,383	5,340,632	12.0%	3,104,090	47,779,841	3,104,090	1,076	53,121,550	5,341,709	11.2%	772,176,778
30	OPTVPS	22,338,556	24,507,810	2,169,255	9.7%	1,750,610	24,089,166	1,750,610	2,153	26,260,574	2,171,407	9.0%	400,394,617
31	OPTVSL	145,838,696	164,472,437	18,633,741	12.8%	9,149,381	154,988,077	9,149,381	998	173,622,817	18,634,740	12.0%	2,620,988,729
32	OPTVSM	136,132,792	152,229,268	16,096,476	11.8%	8,467,373	144,600,165	8,467,373	3,760	160,700,401	16,100,235	11.1%	2,261,832,401
33	OPTVSS	474,902,604	529,248,157	54,345,552	11.4%	46,038,141	520,940,746	46,133,144	257,930	575,639,232	54,698,486	10.5%	7,157,637,089

OFFICIAL COPY
Sep 28 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276

Annualized Base and Total Revenue at Present and Proposed Rates without Change in EDIT-4 Rider - Rate Year 3

Beveridge Direct Exhibit No. 3_3

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)	(L)	(M)
	Rate Class & Schedule	Base Revenue at Present Rates	Base Revenue at Proposed Rates	Change	Percent Change	Present Rider Revenue	Total Revenue at Present Rates	Present Rider Revenue after Closed Schedules	Proposed CAP and CAR Riders	Total Revenue at Proposed Rates without Change in EDIT-4 Rider	Change	Percent Change	Adjusted kWh Test Year Sales
				(C) - (B)	(D) / (B)		(B) + (F)			(C) + (H) + (I)	(J) - (G)	(K) / (G)	
34	OPTE	638,461	0	(638,461)	-100.0%	33,887	672,348	0	0	0	(672,348)	-100.0%	10,878,770
35	OPTVT	90,142,879	98,145,507	8,002,628	8.9%	4,666,652	94,809,531	4,666,652	62	102,812,221	8,002,690	8.4%	1,842,682,887
36	**Lighting**	**143,430,118**	**193,956,215**	**50,526,097**	**35.2%**	**(5,818,793)**	**137,611,325**	**(5,818,793)**	**90,995**	**188,228,416**	**50,617,092**	**36.8%**	**585,940,938**
37	OL	101,957,739	136,326,445	34,368,706	33.7%	(3,670,226)	98,287,513	(3,670,226)	0	132,656,219	34,368,706	35.0%	336,841,610
38	S	2,694	3,602	909	33.7%	544	3,237	544	62	4,208	971	30.0%	40,116
39	PL	39,434,707	54,715,480	15,280,773	38.7%	(2,610,678)	36,824,029	(2,610,678)	0	52,104,802	15,280,773	41.5%	239,599,669
40	NL	66,267	64,927	(1,340)	-2.0%	(879)	65,388	(879)	0	64,048	(1,340)	-2.0%	80,674
41	TS	1,968,711	2,845,760	877,049	44.5%	462,446	2,431,157	462,446	90,932	3,399,139	967,982	39.8%	9,378,869
42	**Total before HP**	**4,925,685,977**	**5,764,828,116**	**839,142,139**	**17.0%**	**258,485,879**	**5,184,171,856**	**258,550,644**	**71,775**	**6,023,450,535**	**839,278,679**	**16.2%**	**57,783,383,486**
43	**Hourly Pricing**	**14,298,059**	**14,868,323**	**570,264**	**4.0%**	**(772,864)**	**13,525,195**	**(772,864)**	**0**	**14,095,544**	**570,349**	**4.2%**	**285,031,905**
44	HP-I	(82)	(82)	0	0.0%	(2)	(84)	(2)	0	0	84	100.0%	(3,924)
45	HP-LGS	395,115	420,704	25,590	6.5%	6,129	401,244	6,129	0	426,833	25,590	6.4%	5,920,238
46	HP-OPTVGPL	10,586,222	10,948,431	362,210	3.4%	(627,753)	9,958,469	(627,753)	0	10,320,678	362,210	3.6%	197,673,569
47	HP-OPTVGPS	1,289,421	1,329,646	40,225	3.1%	(41,579)	1,247,843	(41,579)	0	1,288,067	40,225	3.2%	25,992,848
48	HP-OPTVIPL	43,721	127,233	83,512	191.0%	(45,791)	(2,069)	(45,791)	0	81,442	83,512	4035.5%	19,110,823
49	HP-OPTVIPS	750,831	763,790	12,959	1.7%	(11,299)	739,531	(11,299)	0	752,490	12,959	1.8%	6,393,760
50	HP-OPTVISL	1,047,935	1,081,517	33,581	3.2%	(52,746)	995,189	(52,746)	0	1,028,771	33,581	3.4%	25,440,491
51	HP-OPTVISS	184,897	197,085	12,188	6.6%	177	185,074	177	0	197,262	12,188	6.6%	4,504,100
52	**Total**	**4,939,984,036**	**5,779,696,439**	**839,712,404**	**17.0%**	**257,713,015**	**5,197,697,051**	**257,777,781**	**71,775**	**6,037,546,079**	**839,849,028**	**16.2%**	**58,068,415,391**

[1] Annualized Base Revenues include:

Test year sales priced at present or proposed rates
+ Standby charges
+ Service riders: Riders EC, GSA, SG and SCG
+ Present base fuel effective 9/1/2022
+ Spread factor adjustment of estimated to reported Per Book

-/A

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
NC Retail Cost of Service - Per Book - 12CP Firm, Average & Excess within Retail - Rate Year 0
Beveridge Direct Exhibit No. 4

12 Months Ended December 2021
Dollars in Thousands

Spread of Proposed Base Rate Increase to Customer Classes

	Rate Class	Present Revenue Run - Base Case: Annualized Rate Base (A)	Present Rates Revenues Excluding Riders (B)	Present Net Operating Income (C)	Present ROR (D)=(C)/(A)	Gross Revenues At Average ROR (E)	Variance From The Average (F)=(B)-(E)	10 0% Reduction in Variance from The Average (G)=-(F)*10%	Proposed Rate Increase Before Reduction in Variance (H)	Proposed Rate Increase After Reduction in Variance (I)=(H)+(G)	Total Adjusted Present Rates Revenues Including Riders (J) = (V)/(T)	Adjusted Proposed Percent Increase (K)=(I)/(J)	ROR at Proposed Rates (L)	Total Change in EDIT-4 Rider (M)	Proposed Rate Increase Incl. EDIT Rider After Reduction in Variance (N)=(I)+(M)	Adjusted Proposed Percent Increase Incl. Riders (O)=(N)/(J)
1	RES	$ 10,046,150	$ 2,486,186	$ 589,836	5 9%	$ 2,506,302	$ (20,117)	$ 2,012	$ 194,515	$ 196,527	$ 2,548,754	7.7%	7.4%	$ (5,360)	$ 191,167	7.5%
2	GS	3,129,034	854,548	230,183	7.4%	800,189	54,359	(5,436)	60,585	55,149	944,009	5.8%	8.7%	(1,710)	53,439	5.7%
3	LT	1,086,713	134,411	564	0.1%	219,093	(84,682)	8,468	21,041	29,509	128,958	22.9%	2.1%	(561)	28,948	22.4%
4	I	599,957	153,644	32,160	5.4%	158,843	(5,200)	520	11,616	12,136	168,007	7.2%	6 9%	(337)	11,799	7.0%
5	OPT	4,325,157	1,364,785	303,228	7 0%	1,309,146	55,640	(5,564)	83,744	78,180	1,464,954	5.3%	8.4%	(2,417)	75,763	5.2%
6	NC-RETAIL	$ 19,187,011	$ 4,993,574	$ 1,155,970	6 0%	$ 4,993,574	$ 0	$ (0)	$ 371,502	$ 371,502	$ 5,254,682	7.1%	7 5%	(10,386)	$ 361,116	6.9%
7	HP		14,255													
8	NC-RETAIL		$ 5,007,828													

Calculations for Rate Design in Order to Apply Increase to Unadjusted Billing Determinants

	Rate Class	Proposed Rate Increase After Reduction in Variance (P)=(I)	Customer Growth Adjustment in Present Revenues (Q)	Weather Normalization Adjustment in Present Revenues (R)	Total Adjustments to Exclude for Rate Design (S)=(Q)+(R)	Ratio of Unadjusted Present Revenues to Adjusted (T)=[(B)-(S)]/(B)	Target Revenue Increase for Rate Design (to be applied to unadjusted billing determinants) (U)=(P)x(T)	Total Unadjusted Present Rates Revenues Including Riders (V)	Proposed Percent Increase to Unadjusted Revenues for Rate Design (W)=(U)/(V)	Total Unadjusted EDIT Rider (X)	Migration Adjustment (Y)	Target Revenue Increase for Rate Design Plus Sum of Additional Rider Impacts (Z)=(U)+(X)+(Y)
9	RES	$ 196,527	$ 68,368	$ 6,992	$ 75,359	97.0%	$ 190,570	$ 2,471,499	7.7%	$ (5,198)	$ 9,154	$ 194,526
10	GS	55,149	6,588	(865)	5,723	99.3%	54,780	937,687	5 8%	(1,699)	10,071	63,152
11	LT	29,509	(9,019)	-	(9,019)	106.7%	31,489	137,611	22 9%	(599)	-	30,890
12	I	12,136	1,055	(68)	987	99.4%	12,147	166,928	7 3%	(335)	-	11,812
13	OPT	78,180	(3,911)	(1,251)	(5,162)	0 0%	78,493	1,470,446	5 3%	(2,426)	-	76,067
14	NC-RETAIL	$ 371,502	$ 63,081	$ 4,807	$ 67,888	0 0%	$ 367,479	$ 5,184,171	7.1%	$ (10,257)	$ 19,225	$ 376,448

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
NC Retail Cost of Service - Per Book - 12CP Firm, Average & Excess within Retail - Rate Year 1
Revised Beveridge Exhibit No. 4_1

12 Months Ended December 2021
Dollars in Thousands

Spread of Proposed Base Rate Increase to Customer Classes

		Present Revenue Run - Base Case														
	Rate Class	Annualized Rate Base (A)	Present Rates Revenues Excluding Riders (B)	Present Net Operating Income (C)	Present ROR (D)=(C)/(A)	Gross Revenues At Average ROR (E)	Variance From The Average (F)=(B)-(E)	10.0% Reduction in Variance from The Average (G)=-(F)*10%	Proposed Rate Increase Before Reduction in Variance (H)	Proposed Rate Increase After Reduction in Variance (I)=(H)+(G)	Total Adjusted Present Rates Revenues Including Riders (J) = (V)/(T)	Adjusted Proposed Percent Increase (K)=(I)/(J)	ROR at Proposed Rates (L)	Total Change in EDIT-4 Rider (M)	Proposed Rate Increase Incl. EDIT Rider After Reduction in Variance (N)=(I)+(M)	Adjusted Proposed Percent Increase Incl. Riders (O)=(N)/(J)
1	RES	$ 10,589,739	$ 2,486,186	$ 560,837	5.3%	$ 2,523,260	$ (37,074)	$ 3,707	$ 269,358	$ 273,065	$ 2,548,754	10.7%	7.3%	$ (5,360)	$ 267,705	10.5%
2	GS	3,281,930	854,548	205,528	6.3%	824,661	29,887	(2,989)	83,478	80,490	944,009	8.5%	8.1%	(1,710)	78,779	8.3%
3	LT	1,100,285	134,411	(8,510)	-0.8%	225,388	(90,977)	9,098	27,987	37,084	128,958	28.8%	1.7%	(561)	36,523	28.3%
4	I	625,946	153,644	29,224	4.7%	160,958	(7,314)	731	15,921	16,653	168,007	9.9%	6.7%	(337)	16,316	9.7%
5	OPT	4,505,305	1,364,785	331,542	7.4%	1,259,307	105,479	(10,548)	114,596	104,048	1,464,954	7.1%	9.2%	(2,417)	101,631	6.9%
6	NC-RETAIL	$ 20,103,205	$ 4,993,574	$ 1,118,621	5.6%	$ 4,993,574	$ -	$ -	$ 511,340	$ 511,340	$ 5,254,682	9.7%	7.5%	(10,386)	$ 500,954	9.5%
7	HP		14,255													
8	NC-RETAIL		$ 5,007,828													

Calculations for Rate Design in Order to Apply Increase to Unadjusted Billing Determinants

	Rate Class	Proposed Rate Increase After Reduction in Variance (P)=(I)	Customer Growth Adjustment in Present Revenues (Q)	Weather Normalization Adjustment in Present Revenues (R)	Total Adjustments to Exclude for Rate Design (S)=(Q)+(R)	Ratio of Unadjusted Present Revenues to Adjusted (T)=[(B)-(S)]/(B)	Target Revenue Increase for Rate Design (to be applied to unadjusted billing determinants) (U)=(P)x(T)	Total Unadjusted Present Rates Revenues Including Riders (V)	Proposed Percent Increase to Unadjusted Revenues for Rate Design (W)=(U)/(V)	Total Unadjusted EDIT Rider (X)	Migration Adjustment (Y)	Target Revenue Increase for Rate Design Plus Sum of Additional Rider Impacts (Z)=(U)+(X)+(Y)
9	RES	$ 273,065	$ 68,368	$ 6,992	$ 75,359	97.0%	$ 264,788	$ 2,471,499	10.7%	$ (5,198)	$ -	$ 259,591
10	GS	80,490	6,588	(865)	5,723	99.3%	79,951	937,687	8.5%	(1,699)	11,364	89,615
11	LT	37,084	(9,019)	-	(9,019)	106.7%	39,572	137,611	28.8%	(599)	-	38,974
12	I	16,653	1,055	(68)	987	99.4%	16,546	166,928	9.9%	(335)	-	16,211
13	OPT	104,048	(3,911)	(1,251)	(5,162)	0.0%	104,456	1,470,446	7.1%	(2,426)	-	102,030
14	NC-RETAIL	$ 511,340	$ 63,081	$ 4,807	$ 67,888	0.0%	$ 505,313	$ 5,184,171	9.7%	$ (10,257)	$ 11,364	$ 506,420

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
NC Retail Cost of Service - Per Book - 12CP Firm, Average & Excess within Retail - Rate Year 2
Revised Beveridge Exhibit No. 4_2

12 Months Ended December 2021
Dollars in Thousands

Spread of Proposed Base Rate Increase to Customer Classes

	Rate Class	Present Revenue Run - Base Case: Annualized Rate Base (A)	Present Rates Revenues Excluding Riders (B)	Present Net Operating Income (C)	Present ROR (D)=(C)/(A)	Gross Revenues At Average ROR (E)	Variance From The Average (F)=(B)-(E)	10.0% Reduction in Variance from The Average (G)=-(F)*10%	Proposed Rate Increase Before Reduction in Variance (H)	Proposed Rate Increase After Reduction in Variance (I)=(H)+(G)	Total Adjusted Present Rates Revenues Including Riders (J) = (V)/(T)	Adjusted Proposed Percent Increase (K)=(I)/(J)	ROR at Proposed Rates (L)	Total Change in EDIT-4 Rider (M)	Proposed Rate Increase Incl. EDIT Rider After Reduction in Variance (N)=(I)+(M)	Adjusted Proposed Percent Increase Incl. Riders (O)=(N)/(J)
1	RES	$ 11,443,806	$ 2,486,186	$ 557,196	4.9%	$ 2,518,529	$ (32,343)	$ 3,234	$ 363,454	$ 366,688	$ 2,548,754	14.4%	7.3%	$ (5,360)	$ 361,328	14.2%
2	GS	3,515,138	854,548	230,607	6.6%	786,914	67,634	(6,763)	111,640	104,877	944,009	11.1%	8.9%	(1,710)	103,167	10.9%
3	LT	1,117,146	134,411	4,050	0.4%	203,249	(68,838)	6,884	35,480	42,364	128,958	32.9%	3.3%	(561)	41,803	32.4%
4	I	663,860	153,644	31,479	4.7%	156,621	(2,978)	298	21,084	21,382	168,007	12.7%	7.2%	(337)	21,045	12.5%
5	OPT	4,761,510	1,364,785	270,148	5.7%	1,328,260	36,525	(3,653)	151,225	147,573	1,464,954	10.1%	8.1%	(2,417)	145,155	9.9%
6	NC-RETAIL	$ 21,501,461	$ 4,993,574	$ 1,093,481	5.1%	$ 4,993,574	$ 0	$ (0)	$ 682,884	$ 682,884	$ 5,254,682	13.0%	7.5%	(10,386)	$ 672,498	12.8%
7	HP		14,255													
8	NC-RETAIL		$ 5,007,828													

Calculations for Rate Design in Order to Apply Increase to Unadjusted Billing Determinants

	Rate Class	Proposed Rate Increase After Reduction in Variance (P)=(I)	Customer Growth Adjustment in Present Revenues (Q)	Weather Normalization Adjustment in Present Revenues (R)	Total Adjustments to Exclude for Rate Design (S)=(Q)+(R)	Ratio of Unadjusted Present Revenues to Adjusted (T)=[(B)-(S)]/(B)	Target Revenue Increase for Rate Design (to be applied to unadjusted billing determinants) (U)=(P)x(T)	Total Unadjusted Present Rates Revenues Including Riders (V)	Proposed Percent Increase to Unadjusted Revenues for Rate Design (W)=(U)/(V)	Total Unadjusted EDIT Rider (X)	Migration Adjustment (Y)	Target Revenue Increase for Rate Design Plus Sum of Additional Rider Impacts (Z)=(U)+(X)+(Y)
9	RES	$ 366,688	$ 68,368	$ 6,992	$ 75,359	97.0%	$ 355,574	$ 2,471,499	14.4%	$ (5,198)	$ -	$ 350,376
10	GS	104,877	6,588	(865)	5,723	99.3%	104,175	937,687	11.1%	(1,699)	14,064	116,539
11	LT	42,364	(9,019)	-	(9,019)	106.7%	45,207	137,611	32.9%	(599)	-	44,608
12	I	21,382	1,055	(68)	987	99.4%	21,245	166,928	12.7%	(335)	-	20,909
13	OPT	147,573	(3,911)	(1,251)	(5,162)	0.0%	148,154	1,470,446	10.1%	(2,426)	-	145,727
14	NC-RETAIL	$ 682,884	$ 63,081	$ 4,807	$ 67,888	0.0%	$ 674,353	$ 5,184,171	13.0%	$ (10,257)	$ 14,064	$ 678,160

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
NC Retail Cost of Service - Per Book - 12CP Firm, Average & Excess within Retail - Rate Year 3
Revised Beveridge Exhibit No. 4_3

12 Months Ended December 2021
Dollars in Thousands

Spread of Proposed Base Rate Increase to Customer Classes

	Rate Class	Present Revenue Run - Base Case: Annualized Rate Base (A)	Present Rates Revenues Excluding Riders (B)	Present Net Operating Income (C)	Present ROR (D)=(C)/(A)	Gross Revenues At Average ROR (E)	Variance From The Average (F)=(B)-(E)	10.0% Reduction in Variance from The Average (G)=-(F)*10%	Proposed Rate Increase Before Reduction in Variance (H)	Proposed Rate Increase After Reduction in Variance (I)=(H)+(G)	Total Adjusted Present Rates Revenues Including Riders (J) = (V)/(T)	Adjusted Proposed Percent Increase (K)=(I)/(J)	ROR at Proposed Rates (L)	Total Change in EDIT-4 Rider (M)	Proposed Rate Increase Incl. EDIT Rider After Reduction in Variance (N)=(I)+(M)	Adjusted Proposed Percent Increase Incl. Riders (O)=(N)/(J)
1	RES	$ 12,189,989	$ 2,486,186	$ 545,227	4.5%	$ 2,525,363	$ (39,177)	$ 3,918	$ 446,181	$ 450,099	$ 2,548,754	17.7%	7.3%	$ (5,360)	$ 444,739	17.4%
2	GS	3,727,808	854,548	224,258	6.0%	791,483	63,065	(6,306)	136,446	130,140	944,009	13.8%	8.7%	(1,710)	128,429	13.6%
3	LT	1,131,341	134,411	2,271	0.2%	201,101	(66,690)	6,669	41,410	48,079	128,958	37.3%	3.5%	(561)	47,517	36.8%
4	I	700,471	153,644	30,567	4.4%	156,890	(3,247)	325	25,639	25,964	168,007	15.5%	7.2%	(337)	25,626	15.3%
5	OPT	5,014,369	1,364,785	271,929	5.4%	1,318,736	46,049	(4,605)	183,537	178,932	1,464,954	12.2%	8.2%	(2,417)	176,515	12.0%
6	NC-RETAIL	$ 22,763,978	$ 4,993,574	$ 1,074,253	4.7%	$ 4,993,574	$ -	$ -	$ 833,213	$ 833,213	$ 5,254,682	15.9%	7.5%	(10,386)	$ 822,827	15.7%
7	HP		14,255													
8	NC-RETAIL		$ 5,007,828													

Calculations for Rate Design in Order to Apply Increase to Unadjusted Billing Determinants

	Rate Class	Proposed Rate Increase After Reduction in Variance (P)=(I)	Customer Growth Adjustment in Present Revenues (Q)	Weather Normalization Adjustment in Present Revenues (R)	Total Adjustments to Exclude for Rate Design (S)=(Q)+(R)	Ratio of Unadjusted Present Revenues to Adjusted (T)=[(B)-(S)]/(B)	Target Revenue Increase for Rate Design (to be applied to unadjusted billing determinants) (U)=(P)x(T)	Total Unadjusted Present Rates Revenues Including Riders (V)	Proposed Percent Increase to Unadjusted Revenues for Rate Design (W)=(U)/(V)	Total Unadjusted EDIT Rider (X)	Migration Adjustment (Y)	Target Revenue Increase for Rate Design Plus Sum of Additional Rider Impacts (Z)=(U)+(X)+(Y)
9	RES	$ 450,099	$ 68,368	$ 6,992	$ 75,359	97.0%	$ 436,456	$ 2,471,499	17.7%	$ (5,198)	$ -	$ 431,258
10	GS	130,140	6,588	(865)	5,723	99.3%	129,268	937,687	13.8%	(1,699)	17,055	144,624
11	LT	48,079	(9,019)	-	(9,019)	106.7%	51,305	137,611	37.3%	(599)	-	50,706
12	I	25,964	1,055	(68)	987	99.4%	25,797	166,928	15.5%	(335)	-	25,462
13	OPT	178,932	(3,911)	(1,251)	(5,162)	0.0%	179,633	1,470,446	12.2%	(2,426)	-	177,207
14	NC-RETAIL	$ 833,213	$ 63,081	$ 4,807	$ 67,888	0.0%	$ 822,458	$ 5,184,171	15.9%	$ (10,257)	$ 17,055	$ 829,256

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276

Monthly Bills at Present and Proposed Rates by Major Rate Schedule - Rate Year 0

Beveridge Direct Exhibit No. 5

Schedule RS

kWh	Present Rates	Proposed Rates	Percent Change
0	$15.04	$15.04	0.00%
100	$25.04	$26.00	3.86%
250	$40.03	$42.45	6.04%
500	$65.02	$69.86	7.43%
750	$90.01	$97.26	8.05%
1,000	$115.01	$124.67	8.41%
2,000	$214.97	$234.31	8.99%
3,000	$314.94	$343.94	9.21%
4,000	$414.90	$453.57	9.32%
5,000	$514.87	$563.20	9.39%

Schedule RE
Summer Months

kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
0	$15.04	$15.04	$15.04	0.0%
100	$24.73	$24.46	$25.52	3.2%
250	$39.25	$38.58	$41.23	5.0%
500	$63.47	$62.12	$67.43	6.2%
750	$87.68	$85.65	$93.62	6.8%
1,000	$111.89	$109.19	$119.82	7.1%
2,000	$208.74	$203.34	$224.60	7.6%
3,000	$305.59	$297.49	$329.38	7.8%
4,000	$402.44	$391.64	$434.15	7.9%
5,000	$499.29	$485.80	$538.93	7.9%

Schedule RE
Non-Summer Months

kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
0	$15.04	$15.04	$15.04	0.0%
100	$24.73	$24.46	$25.52	3.2%
250	$39.25	$38.58	$41.23	5.0%
500	$61.93	$62.12	$67.43	8.9%
750	$83.60	$85.65	$93.62	12.0%
1,000	$105.26	$107.43	$117.79	11.9%
2,000	$191.91	$192.78	$212.40	10.7%
3,000	$278.56	$278.13	$307.02	10.2%
4,000	$365.21	$363.48	$401.64	10.0%
5,000	$451.86	$448.83	$496.26	9.8%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Schedule SGS

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
15	0	$25	$25	$28	11.7%
15	1,000	$148	$147	$158	6.8%
15	3,000	$394	$391	$419	6.2%
15	6,000	$613	$605	$645	5.2%
30	3,000	$394	$391	$419	6.2%
30	6,000	$613	$605	$645	5.2%
30	12,000	$1,001	$1,007	$1,070	6.9%
75	7,500	$920	$892	$1,025	11.5%
75	15,000	$1,445	$1,373	$1,534	6.1%
75	30,000	$2,371	$2,309	$2,521	6.3%

Schedule LGS

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	10,000	$1,119	$1,119	$1,198	7.0%
75	25,000	$2,128	$2,126	$2,263	6.4%
250	35,000	$3,736	$3,735	$3,999	7.0%
250	80,000	$6,647	$6,641	$7,069	6.4%
500	70,000	$7,410	$7,407	$7,932	7.1%
500	160,000	$13,195	$13,182	$14,032	6.3%
1,000	250,000	$21,769	$21,773	$23,213	6.6%
1,000	400,000	$31,273	$31,398	$33,379	6.7%
5,000	2,000,000	$155,174	$156,590	$166,471	7.3%
10,000	4,000,000	$310,050	$313,080	$332,835	7.3%

Schedule I

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
15	3,000	$348	$350	$375	7.7%
30	6,000	$609	$612	$655	7.6%
75	20,000	$1,722	$1,723	$1,843	7.1%
150	40,000	$3,377	$3,365	$3,601	6.6%
300	100,000	$7,887	$7,835	$8,367	6.1%
1,000	250,000	$21,037	$20,989	$22,482	6.9%
1,000	450,000	$32,579	$32,671	$34,789	6.8%
5,000	1,250,000	$103,032	$104,621	$112,069	8.8%
5,000	2,250,000	$160,607	$163,034	$173,601	8.1%
10,000	4,500,000	$320,642	$325,988	$347,116	8.3%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Schedule OPT-V Primary (General Service)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$2,378	$1,952	$2,140	-10.0%
300	90,000	$8,921	$7,225	$7,965	-10.7%
300	160,000	$12,280	$10,514	$11,265	-8.3%
1,000	300,000	$29,648	$23,994	$26,455	-10.8%
1,000	600,000	$44,046	$38,091	$40,598	-7.8%
2,500	900,000	$81,263	$66,978	$73,147	-10.0%
2,500	1,500,000	$110,059	$95,172	$101,434	-7.8%
5,000	1,800,000	$162,488	$133,916	$146,251	-10.0%
5,000	3,000,000	$220,081	$190,305	$202,825	-7.8%
10,000	5,500,000	$393,939	$354,826	$379,287	-3.7%

Schedule OPT-V Primary (General Service)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$1,857	$1,952	$2,140	15.2%
300	90,000	$6,843	$7,225	$7,965	16.4%
300	160,000	$10,134	$10,514	$11,265	11.2%
1,000	300,000	$22,724	$23,994	$26,455	16.4%
1,000	600,000	$36,827	$38,091	$40,598	10.2%
2,500	900,000	$63,804	$66,978	$73,147	14.6%
2,500	1,500,000	$92,010	$95,172	$101,434	10.2%
5,000	1,800,000	$127,570	$133,916	$146,251	14.6%
5,000	3,000,000	$183,982	$190,305	$202,825	10.2%
10,000	5,500,000	$332,117	$354,826	$379,287	14.2%

Schedule OPT-V Primary (Industrial)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$2,438	$1,751	$2,112	-13.3%
300	90,000	$9,070	$6,417	$7,778	-14.2%
300	160,000	$12,526	$9,212	$11,104	-11.4%
1,000	300,000	$30,087	$21,245	$25,773	-14.3%
1,000	600,000	$44,900	$33,223	$40,026	-10.9%
2,500	900,000	$82,531	$59,007	$71,461	-13.4%
2,500	1,500,000	$112,156	$82,963	$99,968	-10.9%
5,000	1,800,000	$164,999	$117,952	$142,856	-13.4%
5,000	3,000,000	$224,249	$165,863	$199,869	-10.9%
10,000	5,500,000	$401,560	$309,715	$373,490	-7.0%

Schedule OPT-V Primary (Industrial)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$1,916	$1,751	$2,112	10.3%
300	90,000	$6,993	$6,417	$7,778	11.2%
300	160,000	$10,380	$9,212	$11,104	7.0%
1,000	300,000	$23,163	$21,245	$25,773	11.3%
1,000	600,000	$37,680	$33,223	$40,026	6.2%
2,500	900,000	$65,072	$59,007	$71,461	9.8%
2,500	1,500,000	$94,106	$82,963	$99,968	6.2%
5,000	1,800,000	$130,081	$117,952	$142,856	9.8%
5,000	3,000,000	$188,150	$165,863	$199,869	6.2%
10,000	5,500,000	$339,737	$309,715	$373,490	9.9%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Schedule OPT-V Secondary (General Service)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$2,204	$1,859	$1,938	-12.1%
75	40,000	$3,152	$2,800	$2,933	-6.9%
250	75,000	$7,667	$6,502	$6,780	-11.6%
250	150,000	$11,221	$10,029	$10,510	-6.3%
500	150,000	$15,302	$12,965	$13,518	-11.7%
500	300,000	$22,409	$20,020	$20,980	-6.4%
1,000	500,000	$40,048	$35,288	$36,932	-7.8%
2,500	1,300,000	$102,441	$89,780	$93,991	-8.2%
5,000	2,600,000	$204,849	$176,633	$184,968	-9.7%
10,000	5,500,000	$423,880	$363,459	$380,829	-10.2%

Schedule OPT-V Secondary (General Service)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$1,697	$1,859	$1,938	14.2%
75	40,000	$2,626	$2,800	$2,933	11.7%
250	75,000	$5,957	$6,502	$6,780	13.8%
250	150,000	$9,441	$10,029	$10,510	11.3%
500	150,000	$11,876	$12,965	$13,518	13.8%
500	300,000	$18,843	$20,020	$20,980	11.3%
1,000	500,000	$33,004	$35,288	$36,932	11.9%
2,500	1,300,000	$84,776	$89,780	$93,991	10.9%
5,000	2,600,000	$169,514	$176,633	$184,968	9.1%
10,000	5,500,000	$352,925	$363,459	$380,829	7.9%

Schedule OPT-V Secondary (Industrial)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$2,262	$1,912	$1,969	-13.0%
75	40,000	$3,237	$2,880	$2,970	-8.3%
250	75,000	$7,801	$6,630	$6,827	-12.5%
250	150,000	$11,458	$10,261	$10,581	-7.7%
500	150,000	$15,540	$13,197	$13,589	-12.6%
500	300,000	$22,854	$20,460	$21,096	-7.7%
1,000	500,000	$40,769	$36,003	$37,109	-9.0%
2,500	1,300,000	$104,266	$91,600	$94,411	-9.5%
5,000	2,600,000	$208,470	$180,249	$185,785	-10.9%
10,000	5,500,000	$431,506	$371,080	$382,529	-11.4%

Schedule OPT-V Secondary (Industrial)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$1,750	$1,912	$1,969	12.5%
75	40,000	$2,706	$2,880	$2,970	9.7%
250	75,000	$6,085	$6,630	$6,827	12.2%
250	150,000	$9,672	$10,261	$10,581	9.4%
500	150,000	$12,108	$13,197	$13,589	12.2%
500	300,000	$19,282	$20,460	$21,096	9.4%
1,000	500,000	$33,719	$36,003	$37,109	10.1%
2,500	1,300,000	$86,596	$91,600	$94,411	9.0%
5,000	2,600,000	$173,129	$180,249	$185,785	7.3%
10,000	5,500,000	$360,545	$371,080	$382,529	6.1%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276

Monthly Bills at Present and Proposed Rates by Major Rate Schedule - Rate Year 1

Beveridge Direct Exhibit No. 5_1

Schedule RS

kWh	Present Rates	Proposed Rates	Percent Change
0	$15.04	$15.04	0.00%
100	$25.04	$26.29	5.01%
250	$40.03	$43.17	7.84%
500	$65.02	$71.30	9.65%
750	$90.01	$99.43	10.46%
1,000	$115.01	$127.55	10.91%
2,000	$214.97	$240.07	11.67%
3,000	$314.94	$352.58	11.95%
4,000	$414.90	$465.10	12.10%
5,000	$514.87	$577.61	12.19%

Schedule RE
Summer Months

kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
0	$15.04	$15.04	$15.04	0.0%
100	$24.73	$24.46	$25.82	4.4%
250	$39.25	$38.58	$41.98	7.0%
500	$63.47	$62.12	$68.92	8.6%
750	$87.68	$85.65	$95.87	9.3%
1,000	$111.89	$109.19	$122.81	9.8%
2,000	$208.74	$203.34	$230.58	10.5%
3,000	$305.59	$297.49	$338.35	10.7%
4,000	$402.44	$391.64	$446.11	10.9%
5,000	$499.29	$485.80	$553.88	10.9%

Schedule RE
Non-Summer Months

kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
0	$15.04	$15.04	$15.04	0.0%
100	$24.73	$24.46	$25.82	4.4%
250	$39.25	$38.58	$41.98	7.0%
500	$61.93	$62.12	$68.92	11.3%
750	$83.60	$85.65	$95.87	14.7%
1,000	$105.26	$107.43	$120.72	14.7%
2,000	$191.91	$192.78	$218.03	13.6%
3,000	$278.56	$278.13	$315.33	13.2%
4,000	$365.21	$363.48	$412.64	13.0%
5,000	$451.86	$448.83	$509.95	12.9%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Schedule SGS

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
15	0	$25	$25	$28	11.7%
15	1,000	$148	$147	$162	9.6%
15	3,000	$394	$391	$431	9.3%
15	6,000	$613	$605	$665	8.4%
30	3,000	$394	$391	$431	9.3%
30	6,000	$613	$605	$665	8.4%
30	12,000	$1,001	$1,007	$1,102	10.1%
75	7,500	$920	$892	$1,058	15.0%
75	15,000	$1,445	$1,373	$1,581	9.4%
75	30,000	$2,371	$2,309	$2,598	9.6%

Schedule LGS

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	10,000	$1,119	$1,119	$1,224	9.4%
75	25,000	$2,128	$2,126	$2,313	8.7%
250	35,000	$3,736	$3,735	$4,088	9.4%
250	80,000	$6,647	$6,641	$7,225	8.7%
500	70,000	$7,410	$7,407	$8,109	9.4%
500	160,000	$13,195	$13,182	$14,341	8.7%
1,000	250,000	$21,769	$21,773	$23,726	9.0%
1,000	400,000	$31,273	$31,398	$34,113	9.1%
5,000	2,000,000	$155,174	$156,590	$170,131	9.6%
10,000	4,000,000	$310,050	$313,080	$340,153	9.7%

Schedule I

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
15	3,000	$348	$350	$383	10.0%
30	6,000	$609	$612	$670	10.0%
75	20,000	$1,722	$1,723	$1,887	9.6%
150	40,000	$3,377	$3,365	$3,687	9.2%
300	100,000	$7,887	$7,835	$8,566	8.6%
1,000	250,000	$21,037	$20,989	$23,026	9.5%
1,000	450,000	$32,579	$32,671	$35,613	9.3%
5,000	1,250,000	$103,032	$104,621	$114,786	11.4%
5,000	2,250,000	$160,607	$163,034	$177,719	10.7%
10,000	4,500,000	$320,642	$325,988	$355,352	10.8%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Schedule OPT-V Primary (General Service)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$2,378	$1,952	$2,176	-8.5%
300	90,000	$8,921	$7,225	$8,101	-9.2%
300	160,000	$12,280	$10,514	$11,453	-6.7%
1,000	300,000	$29,648	$23,994	$26,909	-9.2%
1,000	600,000	$44,046	$38,091	$41,274	-6.3%
2,500	900,000	$81,263	$66,978	$74,394	-8.5%
2,500	1,500,000	$110,059	$95,172	$103,125	-6.3%
5,000	1,800,000	$162,488	$133,916	$148,746	-8.5%
5,000	3,000,000	$220,081	$190,305	$206,207	-6.3%
10,000	5,500,000	$393,939	$354,826	$385,632	-2.1%

Schedule OPT-V Primary (General Service)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$1,857	$1,952	$2,176	17.2%
300	90,000	$6,843	$7,225	$8,101	18.4%
300	160,000	$10,134	$10,514	$11,453	13.0%
1,000	300,000	$22,724	$23,994	$26,909	18.4%
1,000	600,000	$36,827	$38,091	$41,274	12.1%
2,500	900,000	$63,804	$66,978	$74,394	16.6%
2,500	1,500,000	$92,010	$95,172	$103,125	12.1%
5,000	1,800,000	$127,570	$133,916	$148,746	16.6%
5,000	3,000,000	$183,982	$190,305	$206,207	12.1%
10,000	5,500,000	$332,117	$354,826	$385,632	16.1%

Schedule OPT-V Primary (Industrial)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$2,438	$1,751	$2,147	-11.9%
300	90,000	$9,070	$6,417	$7,910	-12.8%
300	160,000	$12,526	$9,212	$11,287	-9.9%
1,000	300,000	$30,087	$21,245	$26,213	-12.9%
1,000	600,000	$44,900	$33,223	$40,688	-9.4%
2,500	900,000	$82,531	$59,007	$72,671	-11.9%
2,500	1,500,000	$112,156	$82,963	$101,621	-9.4%
5,000	1,800,000	$164,999	$117,952	$145,276	-12.0%
5,000	3,000,000	$224,249	$165,863	$203,177	-9.4%
10,000	5,500,000	$401,560	$309,715	$379,692	-5.4%

Schedule OPT-V Primary (Industrial)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$1,916	$1,751	$2,147	12.1%
300	90,000	$6,993	$6,417	$7,910	13.1%
300	160,000	$10,380	$9,212	$11,287	8.7%
1,000	300,000	$23,163	$21,245	$26,213	13.2%
1,000	600,000	$37,680	$33,223	$40,688	8.0%
2,500	900,000	$65,072	$59,007	$72,671	11.7%
2,500	1,500,000	$94,106	$82,963	$101,621	8.0%
5,000	1,800,000	$130,081	$117,952	$145,276	11.7%
5,000	3,000,000	$188,150	$165,863	$203,177	8.0%
10,000	5,500,000	$339,737	$309,715	$379,692	11.8%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Schedule OPT-V Secondary (General Service)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$2,204	$1,859	$1,973	-10.5%
75	40,000	$3,152	$2,800	$2,984	-5.3%
250	75,000	$7,667	$6,502	$6,902	-10.0%
250	150,000	$11,221	$10,029	$10,694	-4.7%
500	150,000	$15,302	$12,965	$13,763	-10.1%
500	300,000	$22,409	$20,020	$21,347	-4.7%
1,000	500,000	$40,048	$35,288	$37,584	-6.2%
2,500	1,300,000	$102,441	$89,780	$95,647	-6.6%
5,000	2,600,000	$204,849	$176,633	$188,208	-8.1%
10,000	5,500,000	$423,880	$363,459	$387,453	-8.6%

Schedule OPT-V Secondary (General Service)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$1,697	$1,859	$1,973	16.2%
75	40,000	$2,626	$2,800	$2,984	13.6%
250	75,000	$5,957	$6,502	$6,902	15.9%
250	150,000	$9,441	$10,029	$10,694	13.3%
500	150,000	$11,876	$12,965	$13,763	15.9%
500	300,000	$18,843	$20,020	$21,347	13.3%
1,000	500,000	$33,004	$35,288	$37,584	13.9%
2,500	1,300,000	$84,776	$89,780	$95,647	12.8%
5,000	2,600,000	$169,514	$176,633	$188,208	11.0%
10,000	5,500,000	$352,925	$363,459	$387,453	9.8%

Schedule OPT-V Secondary (Industrial)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$2,262	$1,912	$2,004	-11.4%
75	40,000	$3,237	$2,880	$3,021	-6.7%
250	75,000	$7,801	$6,630	$6,950	-10.9%
250	150,000	$11,458	$10,261	$10,764	-6.1%
500	150,000	$15,540	$13,197	$13,833	-11.0%
500	300,000	$22,854	$20,460	$21,463	-6.1%
1,000	500,000	$40,769	$36,003	$37,761	-7.4%
2,500	1,300,000	$104,266	$91,600	$96,068	-7.9%
5,000	2,600,000	$208,470	$180,249	$189,025	-9.3%
10,000	5,500,000	$431,506	$371,080	$389,153	-9.8%

Schedule OPT-V Secondary (Industrial)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$1,750	$1,912	$2,004	14.5%
75	40,000	$2,706	$2,880	$3,021	11.6%
250	75,000	$6,085	$6,630	$6,950	14.2%
250	150,000	$9,672	$10,261	$10,764	11.3%
500	150,000	$12,108	$13,197	$13,833	14.3%
500	300,000	$19,282	$20,460	$21,463	11.3%
1,000	500,000	$33,719	$36,003	$37,761	12.0%
2,500	1,300,000	$86,596	$91,600	$96,068	10.9%
5,000	2,600,000	$173,129	$180,249	$189,025	9.2%
10,000	5,500,000	$360,545	$371,080	$389,153	7.9%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276

Monthly Bills at Present and Proposed Rates by Major Rate Schedule - Rate Year 2

Beveridge Direct Exhibit No. 5_2

Schedule RS

kWh	Present Rates	Proposed Rates	Percent Change
0	$15.04	$15.04	0.00%
100	$25.04	$26.68	6.57%
250	$40.03	$44.14	10.27%
500	$65.02	$73.25	12.65%
750	$90.01	$102.35	13.70%
1,000	$115.01	$131.45	14.30%
2,000	$214.97	$247.87	15.30%
3,000	$314.94	$364.28	15.67%
4,000	$414.90	$480.69	15.86%
5,000	$514.87	$597.10	15.97%

Schedule RE
Summer Months

kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
0	$15.04	$15.04	$15.04	0.0%
100	$24.73	$24.46	$26.30	6.4%
250	$39.25	$38.58	$43.20	10.1%
500	$63.47	$62.12	$71.36	12.4%
750	$87.68	$85.65	$99.52	13.5%
1,000	$111.89	$109.19	$127.68	14.1%
2,000	$208.74	$203.34	$240.33	15.1%
3,000	$305.59	$297.49	$352.97	15.5%
4,000	$402.44	$391.64	$465.62	15.7%
5,000	$499.29	$485.80	$578.26	15.8%

Schedule RE
Non-Summer Months

kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
0	$15.04	$15.04	$15.04	0.0%
100	$24.73	$24.46	$26.30	6.4%
250	$39.25	$38.58	$43.20	10.1%
500	$61.93	$62.12	$71.36	15.2%
750	$83.60	$85.65	$99.52	19.1%
1,000	$105.26	$107.43	$125.50	19.2%
2,000	$191.91	$192.78	$227.19	18.4%
3,000	$278.56	$278.13	$328.89	18.1%
4,000	$365.21	$363.48	$430.59	17.9%
5,000	$451.86	$448.83	$532.29	17.8%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Schedule SGS

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
15	0	$25	$25	$28	11.7%
15	1,000	$148	$147	$168	13.5%
15	3,000	$394	$391	$449	13.7%
15	6,000	$613	$605	$692	12.8%
30	3,000	$394	$391	$449	13.7%
30	6,000	$613	$605	$692	12.8%
30	12,000	$1,001	$1,007	$1,146	14.5%
75	7,500	$920	$892	$1,102	19.8%
75	15,000	$1,445	$1,373	$1,646	13.9%
75	30,000	$2,371	$2,309	$2,704	14.0%

Schedule LGS

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	10,000	$1,119	$1,119	$1,257	12.3%
75	25,000	$2,128	$2,126	$2,374	11.6%
250	35,000	$3,736	$3,735	$4,198	12.4%
250	80,000	$6,647	$6,641	$7,417	11.6%
500	70,000	$7,410	$7,407	$8,329	12.4%
500	160,000	$13,195	$13,182	$14,723	11.6%
1,000	250,000	$21,769	$21,773	$24,362	11.9%
1,000	400,000	$31,273	$31,398	$35,019	12.0%
5,000	2,000,000	$155,174	$156,590	$174,650	12.6%
10,000	4,000,000	$310,050	$313,080	$349,190	12.6%

Schedule I

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
15	3,000	$348	$350	$393	12.8%
30	6,000	$609	$612	$688	12.9%
75	20,000	$1,722	$1,723	$1,939	12.6%
150	40,000	$3,377	$3,365	$3,790	12.2%
300	100,000	$7,887	$7,835	$8,806	11.7%
1,000	250,000	$21,037	$20,989	$23,679	12.6%
1,000	450,000	$32,579	$32,671	$36,607	12.4%
5,000	1,250,000	$103,032	$104,621	$118,045	14.6%
5,000	2,250,000	$160,607	$163,034	$182,686	13.7%
10,000	4,500,000	$320,642	$325,988	$365,285	13.9%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Schedule OPT-V Primary (General Service)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$2,378	$1,952	$2,213	-6.9%
300	90,000	$8,921	$7,225	$8,244	-7.6%
300	160,000	$12,280	$10,514	$11,650	-5.1%
1,000	300,000	$29,648	$23,994	$27,385	-7.6%
1,000	600,000	$44,046	$38,091	$41,983	-4.7%
2,500	900,000	$81,263	$66,978	$75,700	-6.8%
2,500	1,500,000	$110,059	$95,172	$104,896	-4.7%
5,000	1,800,000	$162,488	$133,916	$151,358	-6.8%
5,000	3,000,000	$220,081	$190,305	$209,750	-4.7%
10,000	5,500,000	$393,939	$354,826	$392,230	-0.4%

Schedule OPT-V Primary (General Service)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$1,857	$1,952	$2,213	19.2%
300	90,000	$6,843	$7,225	$8,244	20.5%
300	160,000	$10,134	$10,514	$11,650	15.0%
1,000	300,000	$22,724	$23,994	$27,385	20.5%
1,000	600,000	$36,827	$38,091	$41,983	14.0%
2,500	900,000	$63,804	$66,978	$75,700	18.6%
2,500	1,500,000	$92,010	$95,172	$104,896	14.0%
5,000	1,800,000	$127,570	$133,916	$151,358	18.6%
5,000	3,000,000	$183,982	$190,305	$209,750	14.0%
10,000	5,500,000	$332,117	$354,826	$392,230	18.1%

Schedule OPT-V Primary (Industrial)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$2,438	$1,751	$2,184	-10.4%
300	90,000	$9,070	$6,417	$8,048	-11.3%
300	160,000	$12,526	$9,212	$11,480	-8.4%
1,000	300,000	$30,087	$21,245	$26,673	-11.3%
1,000	600,000	$44,900	$33,223	$41,381	-7.8%
2,500	900,000	$82,531	$59,007	$73,937	-10.4%
2,500	1,500,000	$112,156	$82,963	$103,355	-7.8%
5,000	1,800,000	$164,999	$117,952	$147,809	-10.4%
5,000	3,000,000	$224,249	$165,863	$206,643	-7.9%
10,000	5,500,000	$401,560	$309,715	$386,147	-3.8%

Schedule OPT-V Primary (Industrial)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$1,916	$1,751	$2,184	14.0%
300	90,000	$6,993	$6,417	$8,048	15.1%
300	160,000	$10,380	$9,212	$11,480	10.6%
1,000	300,000	$23,163	$21,245	$26,673	15.2%
1,000	600,000	$37,680	$33,223	$41,381	9.8%
2,500	900,000	$65,072	$59,007	$73,937	13.6%
2,500	1,500,000	$94,106	$82,963	$103,355	9.8%
5,000	1,800,000	$130,081	$117,952	$147,809	13.6%
5,000	3,000,000	$188,150	$165,863	$206,643	9.8%
10,000	5,500,000	$339,737	$309,715	$386,147	13.7%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Schedule OPT-V Secondary (General Service)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$2,204	$1,859	$2,011	-8.7%
75	40,000	$3,152	$2,800	$3,042	-3.5%
250	75,000	$7,667	$6,502	$7,039	-8.2%
250	150,000	$11,221	$10,029	$10,902	-2.8%
500	150,000	$15,302	$12,965	$14,037	-8.3%
500	300,000	$22,409	$20,020	$21,762	-2.9%
1,000	500,000	$40,048	$35,288	$38,320	-4.3%
2,500	1,300,000	$102,441	$89,780	$97,519	-4.8%
5,000	2,600,000	$204,849	$176,633	$191,878	-6.3%
10,000	5,500,000	$423,880	$363,459	$394,977	-6.8%

Schedule OPT-V Secondary (General Service)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$1,697	$1,859	$2,011	18.5%
75	40,000	$2,626	$2,800	$3,042	15.8%
250	75,000	$5,957	$6,502	$7,039	18.2%
250	150,000	$9,441	$10,029	$10,902	15.5%
500	150,000	$11,876	$12,965	$14,037	18.2%
500	300,000	$18,843	$20,020	$21,762	15.5%
1,000	500,000	$33,004	$35,288	$38,320	16.1%
2,500	1,300,000	$84,776	$89,780	$97,519	15.0%
5,000	2,600,000	$169,514	$176,633	$191,878	13.2%
10,000	5,500,000	$352,925	$363,459	$394,977	11.9%

Schedule OPT-V Secondary (Industrial)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$2,262	$1,912	$2,042	-9.7%
75	40,000	$3,237	$2,880	$3,079	-4.9%
250	75,000	$7,801	$6,630	$7,086	-9.2%
250	150,000	$11,458	$10,261	$10,972	-4.2%
500	150,000	$15,540	$13,197	$14,107	-9.2%
500	300,000	$22,854	$20,460	$21,878	-4.3%
1,000	500,000	$40,769	$36,003	$38,497	-5.6%
2,500	1,300,000	$104,266	$91,600	$97,940	-6.1%
5,000	2,600,000	$208,470	$180,249	$192,695	-7.6%
10,000	5,500,000	$431,506	$371,080	$396,677	-8.1%

Schedule OPT-V Secondary (Industrial)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$1,750	$1,912	$2,042	16.7%
75	40,000	$2,706	$2,880	$3,079	13.8%
250	75,000	$6,085	$6,630	$7,086	16.5%
250	150,000	$9,672	$10,261	$10,972	13.4%
500	150,000	$12,108	$13,197	$14,107	16.5%
500	300,000	$19,282	$20,460	$21,878	13.5%
1,000	500,000	$33,719	$36,003	$38,497	14.2%
2,500	1,300,000	$86,596	$91,600	$97,940	13.1%
5,000	2,600,000	$173,129	$180,249	$192,695	11.3%
10,000	5,500,000	$360,545	$371,080	$396,677	10.0%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276

Monthly Bills at Present and Proposed Rates by Major Rate Schedule - Rate Year 3

Beveridge Direct Exhibit No. 5_3

Schedule RS

kWh	Present Rates	Proposed Rates	Percent Change
0	$15.04	$15.04	0.00%
100	$25.04	$27.00	7.84%
250	$40.03	$44.94	12.26%
500	$65.02	$74.83	15.09%
750	$90.01	$104.73	16.35%
1,000	$115.01	$134.63	17.06%
2,000	$214.97	$254.22	18.26%
3,000	$314.94	$373.81	18.69%
4,000	$414.90	$493.40	18.92%
5,000	$514.87	$612.99	19.06%

Schedule RE
Summer Months

kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
0	$15.04	$15.04	$15.04	0.0%
100	$24.73	$24.46	$26.81	8.4%
250	$39.25	$38.58	$44.47	13.3%
500	$63.47	$62.12	$73.89	16.4%
750	$87.68	$85.65	$103.32	17.8%
1,000	$111.89	$109.19	$132.74	18.6%
2,000	$208.74	$203.34	$250.45	20.0%
3,000	$305.59	$297.49	$368.15	20.5%
4,000	$402.44	$391.64	$485.85	20.7%
5,000	$499.29	$485.80	$603.56	20.9%

Schedule RE
Non-Summer Months

kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
0	$15.04	$15.04	$15.04	0.0%
100	$24.73	$24.46	$26.81	8.4%
250	$39.25	$38.58	$44.47	13.3%
500	$61.93	$62.12	$73.89	19.3%
750	$83.60	$85.65	$103.32	23.6%
1,000	$105.26	$107.43	$130.45	23.9%
2,000	$191.91	$192.78	$236.70	23.3%
3,000	$278.56	$278.13	$342.95	23.1%
4,000	$365.21	$363.48	$449.21	23.0%
5,000	$451.86	$448.83	$555.46	22.9%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Schedule SGS

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
15	0	$25	$25	$28	11.7%
15	1,000	$148	$147	$174	17.3%
15	3,000	$394	$391	$466	18.0%
15	6,000	$613	$605	$718	17.1%
30	3,000	$394	$391	$466	18.0%
30	6,000	$613	$605	$718	17.1%
30	12,000	$1,001	$1,007	$1,190	18.9%
75	7,500	$920	$892	$1,145	24.5%
75	15,000	$1,445	$1,373	$1,710	18.3%
75	30,000	$2,371	$2,309	$2,808	18.4%

Schedule LGS

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	10,000	$1,119	$1,119	$1,285	14.9%
75	25,000	$2,128	$2,126	$2,428	14.1%
250	35,000	$3,736	$3,735	$4,295	15.0%
250	80,000	$6,647	$6,641	$7,586	14.1%
500	70,000	$7,410	$7,407	$8,521	15.0%
500	160,000	$13,195	$13,182	$15,059	14.1%
1,000	250,000	$21,769	$21,773	$24,920	14.5%
1,000	400,000	$31,273	$31,398	$35,816	14.5%
5,000	2,000,000	$155,174	$156,590	$178,625	15.1%
10,000	4,000,000	$310,050	$313,080	$357,137	15.2%

Schedule I

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
15	3,000	$348	$350	$401	15.2%
30	6,000	$609	$612	$704	15.5%
75	20,000	$1,722	$1,723	$1,985	15.3%
150	40,000	$3,377	$3,365	$3,881	14.9%
300	100,000	$7,887	$7,835	$9,018	14.3%
1,000	250,000	$21,037	$20,989	$24,254	15.3%
1,000	450,000	$32,579	$32,671	$37,485	15.1%
5,000	1,250,000	$103,032	$104,621	$120,918	17.4%
5,000	2,250,000	$160,607	$163,034	$187,070	16.5%
10,000	4,500,000	$320,642	$325,988	$374,052	16.7%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Schedule OPT-V Primary (General Service)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$2,378	$1,952	$2,238	-5.9%
300	90,000	$8,921	$7,225	$8,336	-6.6%
300	160,000	$12,280	$10,514	$11,778	-4.1%
1,000	300,000	$29,648	$23,994	$27,691	-6.6%
1,000	600,000	$44,046	$38,091	$42,444	-3.6%
2,500	900,000	$81,263	$66,978	$76,543	-5.8%
2,500	1,500,000	$110,059	$95,172	$106,050	-3.6%
5,000	1,800,000	$162,488	$133,916	$153,044	-5.8%
5,000	3,000,000	$220,081	$190,305	$212,057	-3.6%
10,000	5,500,000	$393,939	$354,826	$396,584	0.7%

Schedule OPT-V Primary (General Service)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$1,857	$1,952	$2,238	20.5%
300	90,000	$6,843	$7,225	$8,336	21.8%
300	160,000	$10,134	$10,514	$11,778	16.2%
1,000	300,000	$22,724	$23,994	$27,691	21.9%
1,000	600,000	$36,827	$38,091	$42,444	15.3%
2,500	900,000	$63,804	$66,978	$76,543	20.0%
2,500	1,500,000	$92,010	$95,172	$106,050	15.3%
5,000	1,800,000	$127,570	$133,916	$153,044	20.0%
5,000	3,000,000	$183,982	$190,305	$212,057	15.3%
10,000	5,500,000	$332,117	$354,826	$396,584	19.4%

Schedule OPT-V Primary (Industrial)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$2,438	$1,751	$2,207	-9.5%
300	90,000	$9,070	$6,417	$8,137	-10.3%
300	160,000	$12,526	$9,212	$11,605	-7.4%
1,000	300,000	$30,087	$21,245	$26,969	-10.4%
1,000	600,000	$44,900	$33,223	$41,833	-6.8%
2,500	900,000	$82,531	$59,007	$74,757	-9.4%
2,500	1,500,000	$112,156	$82,963	$104,485	-6.8%
5,000	1,800,000	$164,999	$117,952	$149,448	-9.4%
5,000	3,000,000	$224,249	$165,863	$208,905	-6.8%
10,000	5,500,000	$401,560	$309,715	$390,411	-2.8%

Schedule OPT-V Primary (Industrial)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	25,000	$1,916	$1,751	$2,207	15.2%
300	90,000	$6,993	$6,417	$8,137	16.4%
300	160,000	$10,380	$9,212	$11,605	11.8%
1,000	300,000	$23,163	$21,245	$26,969	16.4%
1,000	600,000	$37,680	$33,223	$41,833	11.0%
2,500	900,000	$65,072	$59,007	$74,757	14.9%
2,500	1,500,000	$94,106	$82,963	$104,485	11.0%
5,000	1,800,000	$130,081	$117,952	$149,448	14.9%
5,000	3,000,000	$188,150	$165,863	$208,905	11.0%
10,000	5,500,000	$339,737	$309,715	$390,411	14.9%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Schedule OPT-V Secondary (General Service)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$2,204	$1,859	$2,042	-7.4%
75	40,000	$3,152	$2,800	$3,087	-2.1%
250	75,000	$7,667	$6,502	$7,146	-6.8%
250	150,000	$11,221	$10,029	$11,065	-1.4%
500	150,000	$15,302	$12,965	$14,251	-6.9%
500	300,000	$22,409	$20,020	$22,090	-1.4%
1,000	500,000	$40,048	$35,288	$38,899	-2.9%
2,500	1,300,000	$102,441	$89,780	$98,990	-3.4%
5,000	2,600,000	$204,849	$176,633	$194,767	-4.9%
10,000	5,500,000	$423,880	$363,459	$400,910	-5.4%

Schedule OPT-V Secondary (General Service)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$1,697	$1,859	$2,042	20.3%
75	40,000	$2,626	$2,800	$3,087	17.5%
250	75,000	$5,957	$6,502	$7,146	20.0%
250	150,000	$9,441	$10,029	$11,065	17.2%
500	150,000	$11,876	$12,965	$14,251	20.0%
500	300,000	$18,843	$20,020	$22,090	17.2%
1,000	500,000	$33,004	$35,288	$38,899	17.9%
2,500	1,300,000	$84,776	$89,780	$98,990	16.8%
5,000	2,600,000	$169,514	$176,633	$194,767	14.9%
10,000	5,500,000	$352,925	$363,459	$400,910	13.6%

Schedule OPT-V Secondary (Industrial)
Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$2,262	$1,912	$2,073	-8.4%
75	40,000	$3,237	$2,880	$3,124	-3.5%
250	75,000	$7,801	$6,630	$7,194	-7.8%
250	150,000	$11,458	$10,261	$11,136	-2.8%
500	150,000	$15,540	$13,197	$14,322	-7.8%
500	300,000	$22,854	$20,460	$22,206	-2.8%
1,000	500,000	$40,769	$36,003	$39,076	-4.2%
2,500	1,300,000	$104,266	$91,600	$99,411	-4.7%
5,000	2,600,000	$208,470	$180,249	$195,584	-6.2%
10,000	5,500,000	$431,506	$371,080	$402,611	-6.7%

Schedule OPT-V Secondary (Industrial)
Non-Summer Months

kW	kWh	Present Rates	Present Equivalent Rates	Proposed Rates	Percent Change
75	20,000	$1,750	$1,912	$2,073	18.5%
75	40,000	$2,706	$2,880	$3,124	15.4%
250	75,000	$6,085	$6,630	$7,194	18.2%
250	150,000	$9,672	$10,261	$11,136	15.1%
500	150,000	$12,108	$13,197	$14,322	18.3%
500	300,000	$19,282	$20,460	$22,206	15.2%
1,000	500,000	$33,719	$36,003	$39,076	15.9%
2,500	1,300,000	$86,596	$91,600	$99,411	14.8%
5,000	2,600,000	$173,129	$180,249	$195,584	13.0%
10,000	5,500,000	$360,545	$371,080	$402,611	11.7%

Monthly bills include all riders effective 1/1/2023
Monthly bills under proposed rates include proposed Rider CAR and Rider EDIT-4 rate change

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Proposed Customer Charges - Rate Year 0
Beveridge Direct Exhibit No. 6

	(A) Cost of Service Class	(B) Annual Bills	(C) Customer-Related Revenue Requirement	(D) Theoretical Customer Charge	(E) Current Customer Charge	(F) Proposed Customer Charge	(G) Change	(H) Percent Charge
				(C) / (B)			(F) - (E)	(G) / (E)
1	**RES**	**21,517,696**	**$639,486,693**	**$29.72**	**$14.00**	**$14.00**	**$0.00**	**0.0%**
2	**SGS**	**3,001,171**	**$120,276,877**	**$40.08**				
3	BC				$19.39	$21.00	$1.61	8.3%
4	SGS				$19.39	$21.00	$1.61	8.3%
5	SGSTC				$19.39	$21.00	$1.61	8.3%
6	**LGS**	**104,264**	**$7,756,347**	**$74.39**				
6	LGS				$23.91	$26.00	$2.09	8.7%
7	PG				$69.90	$75.00	$5.10	7.3%
8	**IND**	**42,854**	**$2,956,389**	**$68.99**	**$19.27**	**$21.00**	**$1.73**	**9.0%**
9	**LIT**	**2,876,719**	**$26,281,125**	**$9.14**				
10	S				$5.90	$7.00	$1.10	18.6%
11	TS				$6.70	$8.00	$1.30	19.4%
12	**OPT**	**204,040**	**$17,314,325**	**$84.86**	**$32.17**	**$34.00**	**$1.83**	**5.7%**

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Proposed Customer Charges - Rate Year 1
Beveridge Direct Exhibit No. 6_1

	(A) Cost of Service Class	(B) Annual Bills	(C) Customer-Related Revenue Requirement	(D) Theoretical Customer Charge	(E) Current Customer Charge	(F) Proposed Customer Charge	(G) Change	(H) Percent Charge
				(C) / (B)			(F) - (E)	(G) / (E)
1	**RES**	**21,517,696**	**$666,463,971**	**$30.97**	**$14.00**	**$14.00**	**$0.00**	**0.0%**
2	**SGS**	**3,001,171**	**$125,669,678**	**$41.87**				
3	BC				$19.39	$21.00	$1.61	8.3%
4	SGS				$19.39	$21.00	$1.61	8.3%
5	SGSTC				$19.39	$21.00	$1.61	8.3%
6	**LGS**	**104,264**	**$8,098,588**	**$77.67**				
6	LGS				$23.91	$26.00	$2.09	8.7%
7	PG				$69.90	$75.00	$5.10	7.3%
8	**IND**	**42,854**	**$3,107,266**	**$72.51**	**$19.27**	**$21.00**	**$1.73**	**9.0%**
9	**LIT**	**2,876,719**	**$26,737,524**	**$9.29**				
10	S				$5.90	$7.00	$1.10	18.6%
11	TS				$6.70	$8.00	$1.30	19.4%
12	**OPT**	**204,040**	**$18,023,726**	**$88.33**	**$32.17**	**$34.00**	**$1.83**	**5.7%**

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Proposed Customer Charges - Rate Year 2
Beveridge Direct Exhibit No. 6_2

	(A) Cost of Service Class	(B) Annual Bills	(C) Customer-Related Revenue Requirement	(D) Theoretical Customer Charge	(E) Current Customer Charge	(F) Proposed Customer Charge	(G) Change	(H) Percent Charge
				(C) / (B)			(F) - (E)	(G) / (E)
1	**RES**	**21,517,696**	**$706,391,668**	**$32.83**	**$14.00**	**$14.00**	**$0.00**	**0.0%**
2	**SGS**	**3,001,171**	**$134,101,497**	**$44.68**				
3	BC				$19.39	$21.00	$1.61	8.3%
4	SGS				$19.39	$21.00	$1.61	8.3%
5	SGSTC				$19.39	$21.00	$1.61	8.3%
6	**LGS**	**104,264**	**$8,609,475**	**$82.57**				
6	LGS				$23.91	$26.00	$2.09	8.7%
7	PG				$69.90	$75.00	$5.10	7.3%
8	**IND**	**42,854**	**$3,330,909**	**$77.73**	**$19.27**	**$21.00**	**$1.73**	**9.0%**
9	**LIT**	**2,876,719**	**$29,403,519**	**$10.22**				
10	S				$5.90	$7.00	$1.10	18.6%
11	TS				$6.70	$8.00	$1.30	19.4%
12	**OPT**	**204,040**	**$19,069,187**	**$93.46**	**$32.17**	**$34.00**	**$1.83**	**5.7%**

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Proposed Customer Charges - Rate Year 3
Beveridge Direct Exhibit No. 6_3

	(A) Cost of Service Class	(B) Annual Bills	(C) Customer-Related Revenue Requirement	(D) Theoretical Customer Charge	(E) Current Customer Charge	(F) Proposed Customer Charge	(G) Change	(H) Percent Charge
				(C) / (B)			(F) - (E)	(G) / (E)
1	**RES**	**21,517,696**	**$744,248,059**	**$34.59**	**$14.00**	**$14.00**	**$0.00**	**0.0%**
2	**SGS**	**3,001,171**	**$143,178,344**	**$47.71**				
3	BC				$19.39	$21.00	$1.61	8.3%
4	SGS				$19.39	$21.00	$1.61	8.3%
5	SGSTC				$19.39	$21.00	$1.61	8.3%
6	**LGS**	**104,264**	**$9,065,651**	**$86.95**				
6	LGS				$23.91	$26.00	$2.09	8.7%
7	PG				$69.90	$75.00	$5.10	7.3%
8	**IND**	**42,854**	**$3,543,417**	**$82.69**	**$19.27**	**$21.00**	**$1.73**	**9.0%**
9	**LIT**	**2,876,719**	**$27,588,013**	**$9.59**				
10	S				$5.90	$7.00	$1.10	18.6%
11	TS				$6.70	$8.00	$1.30	19.4%
12	**OPT**	**204,040**	**$19,925,179**	**$97.65**	**$32.17**	**$34.00**	**$1.83**	**5.7%**

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276

Derivation of Change to Excess Deferred Income Tax Rider EDIT-4

Beveridge Direct Exhibit No. 7

	(A)	(B)	(C)	(D)	(E)	(F)	(G)
	Rider Rate Class	Applicable Schedules	Approved Rate[1]	Adjusted Test Year kWh Sales	Update to Revenue Requirement	Proposed Rate Change[1]	Proposed Rate[1]
						(E) / (D)	(C) + (F)
1	Residential	RS, RE, ES, RT, RSTC, RETC	($0.004842)	22,379,004,323	($5,197,683)	($0.000232)	($0.005074)
2	General Service	SGS, BC, LGS, TS, OPT-V, HP, PG, S, SGSTC, HLF	($0.002893)	22,844,704,609	($3,182,840)	($0.000139)	($0.003032)
3	Industrial	I, OPT-V, HP, PG	($0.002264)	12,268,184,505	($1,284,282)	($0.000105)	($0.002369)
4	Lighting	OL, PL, NL	($0.012461)	576,528,605	($592,080)	($0.001027)	($0.013488)
5	TOTAL			58,068,422,042	($10,256,886)		

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276

Derivation of Customer Assistance Recovery Rider CAR

Beveridge Direct Exhibit No. 8

	(A) Rider Rate Class	(B) Rate Schedule	(C) Proposed Rate	(D) Adjusted Test Year kWh Sales	(E) Number of Customers	(F) Rider CAR Collection[1]	(G) Estimated Rider CAP Credits[2]	(H) Sum of CAR and CAP Riders
						Res: (C) * (D) Gen&Ind: (C) * (E)	%(E) * (I) * 12 * (K)	(F) + (G)
1	Residential	RS	$0.001246	12,525,418,984	1,023,916	$15,606,672	($18,418,680)	($2,812,008)
2	Residential	RE	$0.001246	9,627,191,008	753,636	$11,995,480	($13,556,592)	($1,561,112)
3	Residential	ES	$0.001246	132,230,485	9,827	$164,759	($176,904)	($12,145)
4	Residential	ESA	$0.001246	41,954,365	3,284	$52,275	($58,968)	($6,693)
5	Residential	RT	$0.001246	45,199,014	1,924	$56,318	($34,776)	$21,542
6	Residential	RSTC	$0.001246	2,998,149	244	$3,736	($4,536)	($800)
7	Residential	RETC	$0.001246	4,012,318	310	$4,999	($5,544)	($545)
8	General Service	BC	$1.30	20,392,317	8,533	$133,115		$133,115
9	General Service	SGS	$1.30	4,320,855,036	229,266	$3,576,550		$3,576,550
10	General Service	SGS-CATV	$1.30	64,260,449	11,711	$182,692		$182,692
11	General Service	SGSTC	$1.30	1,003,309	68	$1,061		$1,061
12	General Service	LGS	$1.30	4,826,822,606	8,680	$135,408		$135,408
13	General Service	PG	$1.30	166,751	6	$94		$94
14	General Service	S	$1.30	40,116	4	$62		$62
15	General Service	TS	$1.30	9,378,869	5,829	$90,932		$90,932
16	General Service	OPTVGSS	$1.30	6,109,418,299	15,796	$246,418		$246,418
17	General Service	OPTVGSM	$1.30	985,376,281	108	$1,685		$1,685
18	General Service	OPTVGSL	$1.30	772,763,970	19	$296		$296
19	General Service	OPTVGPS	$1.30	209,055,829	114	$1,778		$1,778
20	General Service	OPTVGPM	$1.30	471,339,653	45	$702		$702
21	General Service	OPTVGPL	$1.30	3,621,710,120	46	$718		$718
22	General Service	OPTVGT	$1.30	1,202,534,351	2	$31		$31
23	Industrial	I	$1.30	2,080,236,237	3,571	$55,708		$55,708
24	Industrial	OPTVISS	$1.30	1,059,097,561	738	$11,513		$11,513
25	Industrial	OPTVISM	$1.30	1,276,456,120	133	$2,075		$2,075
26	Industrial	OPTVISL	$1.30	1,848,224,759	45	$702		$702
27	Industrial	OPTVIPS	$1.30	191,338,788	24	$374		$374
28	Industrial	OPTVIPM	$1.30	300,837,124	24	$374		$374

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Derivation of Customer Assistance Recovery Rider CAR
Beveridge Direct Exhibit No. 8

	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
	Rider Rate Class	Rate Schedule	Proposed Rate	Adjusted Test Year kWh Sales	Number of Customers	Rider CAR Collection[1]	Estimated Rider CAP Credits[2]	Sum of CAR and CAP Riders
						Res: (C) * (D) Gen&Ind: (C) * (E)	%(E) * (I) * 12 * (K)	(F) + (G)
29	Industrial	OPTVIPL	$1.30	4,816,400,131	78	$1,217		$1,217
30	Industrial	OPTVIT	$1.30	640,148,535	2	$31		$31
31	Lighting	OL	$0.00	336,848,370	442,330	$0		$0
32	Lighting	PL	$0.00	239,599,561	307,696	$0		$0
33	Lighting	NL	$0.00	80,674	6	$0		$0
34	TOTAL			57,783,390,138	2,828,015	$32,327,775	($32,256,000)	$71,775

	(I)	(J)	(K)	(L)
	CAP Customers	CAP Annual Bills	CAP Monthly Credit	CAP Total Credit
	Estimated	(I) * 12	Estimated	(J) * (K)
35	64,000	768,000	($42)	($32,256,000)

Note:
1. Rider CAR rates are volumetric (per kWh) for the Residential class and fixed (per bill) for General Service and Industrial classes.
2. Estimated Rider CAP Credits are based on the assumption that 64,000 customers with a credit of $42 per month qualifying for the CAP program will be proportionally divided according to the number of customers on each Residential rate schedule.
3. Revenue requirement for Rider CAR has been allocated to Residential and Non-Residential (excluding Lighting) by number of customers: 86% and 14% respectively.

OFFICIAL COPY
Sep 28 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276

Probable Effect of Proposed Rates on DEC Peak Demands and Sales
Beveridge Direct Exhibit No. 9

The following forecast from the DEC Fall 2022 Forecast incorporates the effect of the expected rate increase on forecasted peaks and sales. The yearly impact to annual energy is shown below. While specific peak calculations restricted to customers in North Carolina are not calculated as part of our forecasting process, we expect the proposed rates to result in peak demand of approximately 1.0% lower for the customers impacted.

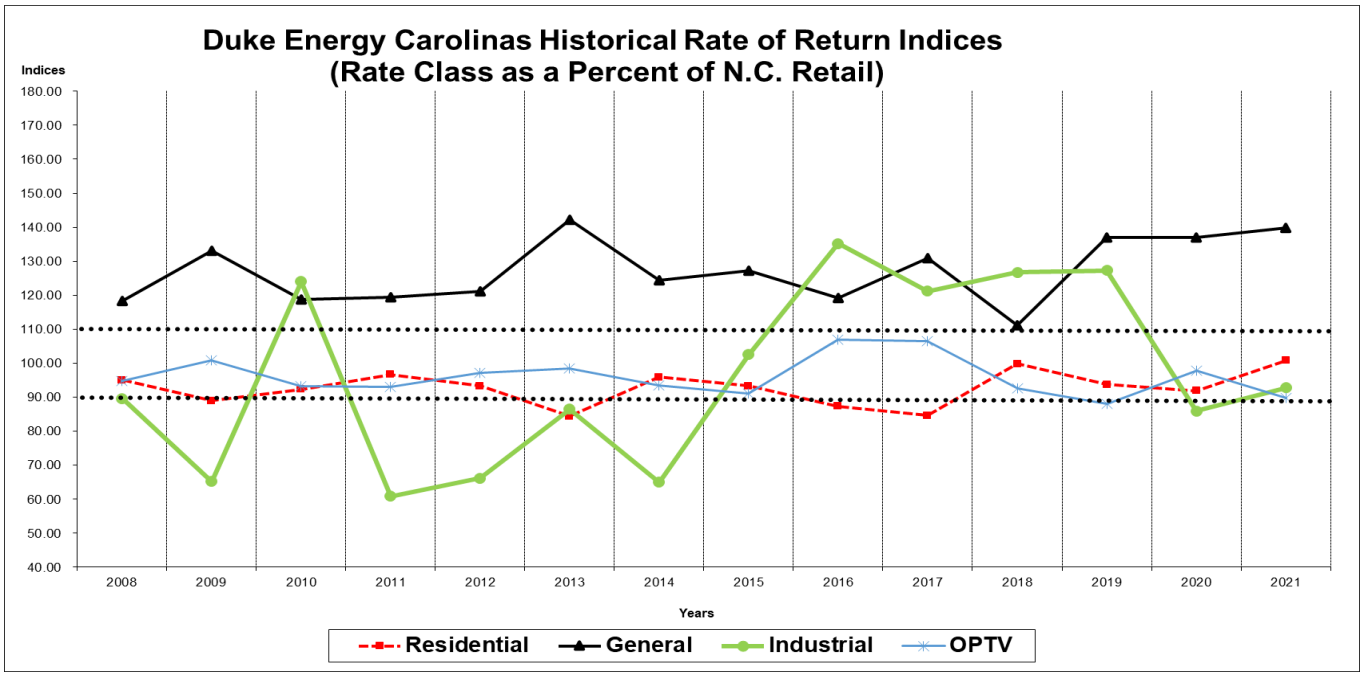
The Company estimates the gigawatt-hours which will be used by our North Carolina Retail customers during the ensuing one year and the following five years are as follows:

DEC NC Retail Sales, GWH

Year	With Rate Case	Without Rate Case	% Difference
2024	60,805	61,306	-0.80%
2025	60,985	61,489	-0.80%
2026	61,016	61,513	-0.80%
2027	61,059	61,558	-0.80%
2028	61,419	61,914	-0.80%

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
Historical Rate of Return Indices
Beveridge Direct Exhibit No. 10



-/A

OFFICIAL COPY

Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276

Probable Effect of Proposed Rates on DEC Peak Demands and Sales
Application Exhibit D

The following forecast from the DEC Fall 2022 Forecast incorporates the effect of the expected rate increase on forecasted peaks and sales. The yearly impact to annual energy is shown below. While specific peak calculations restricted to customers in North Carolina are not calculated as part of our forecasting process, we expect the proposed rates to result in peak demand of approximately 0.6% lower for the customers impacted.

The Company estimates the gigawatt-hours which will be used by our North Carolina Retail customers during the ensuing one year and the following five years are as follows:

DEC NC Retail Sales, GWH

Year	With Rate Case	Without Rate Case	% Difference
2023	60,095	60,700	-1.00%
2024	60,805	61,306	-0.82%
2025	60,985	61,489	-0.82%
2026	61,016	61,513	-0.81%
2027	61,059	61,558	-0.81%
2028	61,419	61,914	-0.80%

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276

Probable Effect of Proposed Rates on DEC Peak Demands and Sales
Beveridge Direct Exhibit No. 9

The following forecast from the DEC Fall 2022 Forecast incorporates the effect of the expected rate increase on forecasted peaks and sales. The yearly impact to annual energy is shown below. While specific peak calculations restricted to customers in North Carolina are not calculated as part of our forecasting process, we expect the proposed rates to result in peak demand of approximately 0.6% lower for the customers impacted.

The Company estimates the gigawatt-hours which will be used by our North Carolina Retail customers during the ensuing one year and the following five years are as follows:

DEC NC Retail Sales, GWH

Year	With Rate Case	Without Rate Case	% Difference
2023	60,095	60,700	-1.00%
2024	60,805	61,306	-0.82%
2025	60,985	61,489	-0.82%
2026	61,016	61,513	-0.81%
2027	61,059	61,558	-0.81%
2028	61,419	61,914	-0.80%

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

RIDER NM
NET METERING

AVAILABILTY

Available to residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, micro-hydro or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's distribution system.

This Rider is not available to new nonresidential applications on and after January 1, 2024. Nonresidential customers may continue to receive service under this Rider until December 31, 2033 and then must transition to receive service under Rider NSC or another applicable rider.

GENERAL PROVISIONS

1. To qualify for service under this Rider, a residential Customer may be served on any residential rate schedule. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.
2. To qualify for service under this Rider, a nonresidential Customer may be served under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the Customer's Contract Demand or 1000 kW, whichever is less.
3. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kilowatt hours supplied by the Company, plus any demand or other charges under the applicable rate schedule. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity in kilowatt hours supplied by the utility during a monthly billing period, the Customer-Generator shall be credited for the excess kilowatt hours generated during that billing period. Charges or credits will be determined using the appropriate energy rates of the applicable rate schedule as further outlined in the RATE paragraph below.
4. All other provisions of the applicable rate schedule including, but not limited to, Determination of Billing Demand, Determination of On-Peak, Off-Peak, and Discount Hours, Contract Demand, Approved Fuel Charge Adjustments, etc. will apply to service supplied under this Rider.
5. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.
6. Customers served under this Rider are not eligible to participate in NC GreenPower.
7. For any customer receiving service under a non-time of use demand rate schedule, any renewable energy credits (RECs) shall be retained by the Company.

RATE

The rate shall be based on the applicable rate schedule, and the monthly bill shall be determined as follows:

I. The Basic Customer Charge shall be the Basic Customer Charge from the applicable rate schedule.

II. The Demand Charge shall be determined from the applicable schedule as appropriate.

III. Energy Charges (or Credits) shall be based on the net kilowatt hours purchased from or delivered to the Company for the bill month. For any bill month during which the Energy Charges are a net credit, the respective Energy Charges for the month shall be zero. Any Energy Credits shall carry forward on following month's bill. If the customer is on a time of use rate, the Energy Credits shall carry forward by first applying excess On-Peak kWh against On-Peak kWh charges, ~~and~~ excess Off-peak kWh against Off-peak kWh charges and excess Discount kWh against Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Off-Peak kWh charges, then

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

applying any remaining excess Off-Peak kWh against any remaining Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Discount kWh charges. Effective with the seasonal rate change each year, any accrued credit not used to reduce billed kWh usage shall be reset to zero each April 30th. Excess energy delivered prior to April 30th will only be used to reduce usage by Company prior to April 30th. Credits shall not offset the Basic Customer Charge or the Demand Charge.

IV. A Standby Charge of $1.85 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Basic Customer Charge plus, if applicable, any of the following charges: Demand Charges, the Standby Charge, and the Extra Facilities Charge.

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt demand delivered by the Company to the Customer, and to measure the net kilowatt-hours purchased by the Customer or delivered to the Company. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

RIDER NM
NET METERING

AVAILABILTY

Available to residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, micro-hydro or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's distribution system.

This Rider is not available to new nonresidential applications on and after January 1, 2024. Nonresidential customers may continue to receive service under this Rider until December 31, 2033 and then must transition to receive service under Rider NSC or another applicable rider.

GENERAL PROVISIONS

1. To qualify for service under this Rider, a residential Customer may be served on any residential rate schedule. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.
2. To qualify for service under this Rider, a nonresidential Customer may be served under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the Customer's Contract Demand or 1000 kW, whichever is less.
3. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kilowatt hours supplied by the Company, plus any demand or other charges under the applicable rate schedule. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity in kilowatt hours supplied by the utility during a monthly billing period, the Customer-Generator shall be credited for the excess kilowatt hours generated during that billing period. Charges or credits will be determined using the appropriate energy rates of the applicable rate schedule as further outlined in the RATE paragraph below.
4. All other provisions of the applicable rate schedule including, but not limited to, Determination of Billing Demand, Determination of On-Peak, Off-Peak, and Discount Hours, Contract Demand, Approved Fuel Charge Adjustments, etc. will apply to service supplied under this Rider.
5. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.
6. Customers served under this Rider are not eligible to participate in NC GreenPower.
7. For any customer receiving service under a non-time of use demand rate schedule, any renewable energy credits (RECs) shall be retained by the Company.

RATE

The rate shall be based on the applicable rate schedule, and the monthly bill shall be determined as follows:

I. The Basic Customer Charge shall be the Basic Customer Charge from the applicable rate schedule.

II. The Demand Charge shall be determined from the applicable schedule as appropriate.

III. Energy Charges (or Credits) shall be based on the net kilowatt hours purchased from or delivered to the Company for the bill month. For any bill month during which the Energy Charges are a net credit, the respective Energy Charges for the month shall be zero. Any Energy Credits shall carry forward on following month's bill. If the customer is on a time of use rate, the Energy Credits shall carry forward by first applying excess On-Peak kWh against On-Peak kWh charges, excess Off-peak kWh against Off-peak kWh charges and excess Discount kWh against Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Off-Peak kWh charges, then applying any

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

remaining excess Off-Peak kWh against any remaining Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Discount kWh charges. Effective with the seasonal rate change each year, any accrued credit not used to reduce billed kWh usage shall be reset to zero each April 30th. Excess energy delivered prior to April 30th will only be used to reduce usage by Company prior to April 30th. Credits shall not offset the Basic Customer Charge or the Demand Charge.

IV. A Standby Charge of $1.85 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Basic Customer Charge plus, if applicable, any of the following charges: Demand Charges, the Standby Charge, and the Extra Facilities Charge.

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt demand delivered by the Company to the Customer, and to measure the net kilowatt-hours purchased by the Customer or delivered to the Company. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

RIDER NM
NET METERING

AVAILABILTY

Available to residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, micro-hydro or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's distribution system.

This Rider is not available to new nonresidential applications on and after January 1, 2024. Nonresidential customers may continue to receive service under this Rider until December 31, 2033 and then must transition to receive service under Rider NSC or another applicable rider.

GENERAL PROVISIONS

1. To qualify for service under this Rider, a residential Customer may be served on any residential rate schedule. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.
2. To qualify for service under this Rider, a nonresidential Customer may be served under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the Customer's Contract Demand or 1000 kW, whichever is less.
3. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kilowatt hours supplied by the Company, plus any demand or other charges under the applicable rate schedule. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity in kilowatt hours supplied by the utility during a monthly billing period, the Customer-Generator shall be credited for the excess kilowatt hours generated during that billing period. Charges or credits will be determined using the appropriate energy rates of the applicable rate schedule as further outlined in the RATE paragraph below.
4. All other provisions of the applicable rate schedule including, but not limited to, Determination of Billing Demand, Determination of On-Peak, Off-Peak, and Discount Hours, Contract Demand, Approved Fuel Charge Adjustments, etc. will apply to service supplied under this Rider.
5. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.
6. Customers served under this Rider are not eligible to participate in NC GreenPower.
7. For any customer receiving service under a non-time of use demand rate schedule, any renewable energy credits (RECs) shall be retained by the Company.

RATE

The rate shall be based on the applicable rate schedule, and the monthly bill shall be determined as follows:

I. The Basic Customer Charge shall be the Basic Customer Charge from the applicable rate schedule.

II. The Demand Charge shall be determined from the applicable schedule as appropriate.

III. Energy Charges (or Credits) shall be based on the net kilowatt hours purchased from or delivered to the Company for the bill month. For any bill month during which the Energy Charges are a net credit, the respective Energy Charges for the month shall be zero. Any Energy Credits shall carry forward on following month's bill. If the customer is on a time of use rate, the Energy Credits shall carry forward by first applying excess On-Peak kWh against On-Peak kWh charges, ~~and~~ excess Off-peak kWh against Off-peak kWh charges and excess Discount kWh against Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Off-Peak kWh charges, then applying any remaining

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

excess Off-Peak kWh against any remaining Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Discount kWh charges. Effective with the seasonal rate change each year, any accrued credit not used to reduce billed kWh usage shall be reset to zero each April 30th. Excess energy delivered prior to April 30th will only be used to reduce usage by Company prior to April 30th. Credits shall not offset the Basic Customer Charge or the Demand Charge.

IV. A Standby Charge of $1.90 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Basic Customer Charge plus, if applicable, any of the following charges: Demand Charges, the Standby Charge, and the Extra Facilities Charge.

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt demand delivered by the Company to the Customer, and to measure the net kilowatt-hours purchased by the Customer or delivered to the Company. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

RIDER NM
NET METERING

AVAILABILTY

Available to residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, micro-hydro or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's distribution system.

This Rider is not available to new nonresidential applications on and after January 1, 2024. Nonresidential customers may continue to receive service under this Rider until December 31, 2033 and then must transition to receive service under Rider NSC or another applicable rider.

GENERAL PROVISIONS

1. To qualify for service under this Rider, a residential Customer may be served on any residential rate schedule. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.
2. To qualify for service under this Rider, a nonresidential Customer may be served under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the Customer's Contract Demand or 1000 kW, whichever is less.
3. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kilowatt hours supplied by the Company, plus any demand or other charges under the applicable rate schedule. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity in kilowatt hours supplied by the utility during a monthly billing period, the Customer-Generator shall be credited for the excess kilowatt hours generated during that billing period. Charges or credits will be determined using the appropriate energy rates of the applicable rate schedule as further outlined in the RATE paragraph below.
4. All other provisions of the applicable rate schedule including, but not limited to, Determination of Billing Demand, Determination of On-Peak, Off-Peak, and Discount Hours, Contract Demand, Approved Fuel Charge Adjustments, etc. will apply to service supplied under this Rider.
5. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.
6. Customers served under this Rider are not eligible to participate in NC GreenPower.
7. For any customer receiving service under a non-time of use demand rate schedule, any renewable energy credits (RECs) shall be retained by the Company.

RATE

The rate shall be based on the applicable rate schedule, and the monthly bill shall be determined as follows:

I. The Basic Customer Charge shall be the Basic Customer Charge from the applicable rate schedule.

II. The Demand Charge shall be determined from the applicable schedule as appropriate.

III. Energy Charges (or Credits) shall be based on the net kilowatt hours purchased from or delivered to the Company for the bill month. For any bill month during which the Energy Charges are a net credit, the respective Energy Charges for the month shall be zero. Any Energy Credits shall carry forward on following month's bill. If the customer is on a time of use rate, the Energy Credits shall carry forward by first applying excess On-Peak kWh against On-Peak kWh charges, excess Off-peak kWh against Off-peak kWh charges and excess Discount kWh against Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Off-Peak kWh charges, then applying any remaining

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

excess Off-Peak kWh against any remaining Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Discount kWh charges. Effective with the seasonal rate change each year, any accrued credit not used to reduce billed kWh usage shall be reset to zero each April 30th. Excess energy delivered prior to April 30th will only be used to reduce usage by Company prior to April 30th. Credits shall not offset the Basic Customer Charge or the Demand Charge.

IV. A Standby Charge of $1.90 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Basic Customer Charge plus, if applicable, any of the following charges: Demand Charges, the Standby Charge, and the Extra Facilities Charge.

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt demand delivered by the Company to the Customer, and to measure the net kilowatt-hours purchased by the Customer or delivered to the Company. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

RIDER NM
NET METERING

AVAILABILTY

Available to residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, micro-hydro or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's distribution system.

This Rider is not available to new nonresidential applications on and after January 1, 2024. Nonresidential customers may continue to receive service under this Rider until December 31, 2033 and then must transition to receive service under Rider NSC or another applicable rider.

GENERAL PROVISIONS

1. To qualify for service under this Rider, a residential Customer may be served on any residential rate schedule. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.
2. To qualify for service under this Rider, a nonresidential Customer may be served under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the Customer's Contract Demand or 1000 kW, whichever is less.
3. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kilowatt hours supplied by the Company, plus any demand or other charges under the applicable rate schedule. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity in kilowatt hours supplied by the utility during a monthly billing period, the Customer-Generator shall be credited for the excess kilowatt hours generated during that billing period. Charges or credits will be determined using the appropriate energy rates of the applicable rate schedule as further outlined in the RATE paragraph below.
4. All other provisions of the applicable rate schedule including, but not limited to, Determination of Billing Demand, Determination of On-Peak, Off-Peak, and Discount Hours, Contract Demand, Approved Fuel Charge Adjustments, etc. will apply to service supplied under this Rider.
5. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.
6. Customers served under this Rider are not eligible to participate in NC GreenPower.
7. For any customer receiving service under a non-time of use demand rate schedule, any renewable energy credits (RECs) shall be retained by the Company.

RATE

The rate shall be based on the applicable rate schedule, and the monthly bill shall be determined as follows:

I. The Basic Customer Charge shall be the Basic Customer Charge from the applicable rate schedule.

II. The Demand Charge shall be determined from the applicable schedule as appropriate.

III. Energy Charges (or Credits) shall be based on the net kilowatt hours purchased from or delivered to the Company for the bill month. For any bill month during which the Energy Charges are a net credit, the respective Energy Charges for the month shall be zero. Any Energy Credits shall carry forward on following month's bill. If the customer is on a time of use rate, the Energy Credits shall carry forward by first applying excess On-Peak kWh against On-Peak kWh charges, ~~and~~ excess Off-peak kWh against Off-peak kWh charges and excess Discount kWh against Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Off-Peak kWh charges, then applying any remaining

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

excess Off-Peak kWh against any remaining Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Discount kWh charges. Effective with the seasonal rate change each year, any accrued credit not used to reduce billed kWh usage shall be reset to zero each April 30th. Excess energy delivered prior to April 30th will only be used to reduce usage by Company prior to April 30th. Credits shall not offset the Basic Customer Charge or the Demand Charge.

IV. A Standby Charge of $1.95 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Basic Customer Charge plus, if applicable, any of the following charges: Demand Charges, the Standby Charge, and the Extra Facilities Charge.

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt demand delivered by the Company to the Customer, and to measure the net kilowatt-hours purchased by the Customer or delivered to the Company. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

RIDER NM
NET METERING

AVAILABILTY

Available to residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, micro-hydro or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's distribution system.

This Rider is not available to new nonresidential applications on and after January 1, 2024. Nonresidential customers may continue to receive service under this Rider until December 31, 2033 and then must transition to receive service under Rider NSC or another applicable rider.

GENERAL PROVISIONS

1. To qualify for service under this Rider, a residential Customer may be served on any residential rate schedule. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.
2. To qualify for service under this Rider, a nonresidential Customer may be served under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the Customer's Contract Demand or 1000 kW, whichever is less.
3. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kilowatt hours supplied by the Company, plus any demand or other charges under the applicable rate schedule. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity in kilowatt hours supplied by the utility during a monthly billing period, the Customer-Generator shall be credited for the excess kilowatt hours generated during that billing period. Charges or credits will be determined using the appropriate energy rates of the applicable rate schedule as further outlined in the RATE paragraph below.
4. All other provisions of the applicable rate schedule including, but not limited to, Determination of Billing Demand, Determination of On-Peak, Off-Peak, and Discount Hours, Contract Demand, Approved Fuel Charge Adjustments, etc. will apply to service supplied under this Rider.
5. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.
6. Customers served under this Rider are not eligible to participate in NC GreenPower.
7. For any customer receiving service under a non-time of use demand rate schedule, any renewable energy credits (RECs) shall be retained by the Company.

RATE

The rate shall be based on the applicable rate schedule, and the monthly bill shall be determined as follows:

I. The Basic Customer Charge shall be the Basic Customer Charge from the applicable rate schedule.

II. The Demand Charge shall be determined from the applicable schedule as appropriate.

III. Energy Charges (or Credits) shall be based on the net kilowatt hours purchased from or delivered to the Company for the bill month. For any bill month during which the Energy Charges are a net credit, the respective Energy Charges for the month shall be zero. Any Energy Credits shall carry forward on following month's bill. If the customer is on a time of use rate, the Energy Credits shall carry forward by first applying excess On-Peak kWh against On-Peak kWh charges, excess Off-peak kWh against Off-peak kWh charges and excess Discount kWh against Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Off-Peak kWh charges, then applying any remaining

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

excess Off-Peak kWh against any remaining Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Discount kWh charges. Effective with the seasonal rate change each year, any accrued credit not used to reduce billed kWh usage shall be reset to zero each April 30th. Excess energy delivered prior to April 30th will only be used to reduce usage by Company prior to April 30th. Credits shall not offset the Basic Customer Charge or the Demand Charge.

IV. A Standby Charge of $1.95 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Basic Customer Charge plus, if applicable, any of the following charges: Demand Charges, the Standby Charge, and the Extra Facilities Charge.

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt demand delivered by the Company to the Customer, and to measure the net kilowatt-hours purchased by the Customer or delivered to the Company. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

RIDER NM
NET METERING

AVAILABILTY

Available to residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, micro-hydro or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's distribution system.

This Rider is not available to new nonresidential applications on and after January 1, 2024. Nonresidential customers may continue to receive service under this Rider until December 31, 2033 and then must transition to receive service under Rider NSC or another applicable rider.

GENERAL PROVISIONS

1. To qualify for service under this Rider, a residential Customer may be served on any residential rate schedule. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.
2. To qualify for service under this Rider, a nonresidential Customer may be served under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the Customer's Contract Demand or 1000 kW, whichever is less.
3. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kilowatt hours supplied by the Company, plus any demand or other charges under the applicable rate schedule. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity in kilowatt hours supplied by the utility during a monthly billing period, the Customer-Generator shall be credited for the excess kilowatt hours generated during that billing period. Charges or credits will be determined using the appropriate energy rates of the applicable rate schedule as further outlined in the RATE paragraph below.
4. All other provisions of the applicable rate schedule including, but not limited to, Determination of Billing Demand, Determination of On-Peak, Off-Peak, and Discount Hours, Contract Demand, Approved Fuel Charge Adjustments, etc. will apply to service supplied under this Rider.
5. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.
6. Customers served under this Rider are not eligible to participate in NC GreenPower.
7. For any customer receiving service under a non-time of use demand rate schedule, any renewable energy credits (RECs) shall be retained by the Company.

RATE

The rate shall be based on the applicable rate schedule, and the monthly bill shall be determined as follows:

I. The Basic Customer Charge shall be the Basic Customer Charge from the applicable rate schedule.

II. The Demand Charge shall be determined from the applicable schedule as appropriate.

III. Energy Charges (or Credits) shall be based on the net kilowatt hours purchased from or delivered to the Company for the bill month. For any bill month during which the Energy Charges are a net credit, the respective Energy Charges for the month shall be zero. Any Energy Credits shall carry forward on following month's bill. If the customer is on a time of use rate, the Energy Credits shall carry forward by first applying excess On-Peak kWh against On-Peak kWh charges, ~~and~~ excess Off-peak kWh against Off-peak kWh charges and excess Discount kWh against Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Off-Peak kWh charges, then applying any remaining

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

excess Off-Peak kWh against any remaining Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Discount kWh charges. Effective with the seasonal rate change each year, any accrued credit not used to reduce billed kWh usage shall be reset to zero each April 30th. Excess energy delivered prior to April 30th will only be used to reduce usage by Company prior to April 30th. Credits shall not offset the Basic Customer Charge or the Demand Charge.

IV. A Standby Charge of $2.00 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Basic Customer Charge plus, if applicable, any of the following charges: Demand Charges, the Standby Charge, and the Extra Facilities Charge.

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt demand delivered by the Company to the Customer, and to measure the net kilowatt-hours purchased by the Customer or delivered to the Company. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

RIDER NM
NET METERING

AVAILABILTY

Available to residential and nonresidential Customers receiving concurrent service from the Company where a photovoltaic, wind-powered, micro-hydro or biomass-fueled generation source of energy is installed on the Customer's side of the delivery point, for the Customer's own use, interconnected with and operated in parallel with the Company's distribution system.

This Rider is not available to new nonresidential applications on and after January 1, 2024. Nonresidential customers may continue to receive service under this Rider until December 31, 2033 and then must transition to receive service under Rider NSC or another applicable rider.

GENERAL PROVISIONS

1. To qualify for service under this Rider, a residential Customer may be served on any residential rate schedule. The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the estimated maximum monthly kilowatt (kW) demand of the residence or 20 kW, whichever is less.
2. To qualify for service under this Rider, a nonresidential Customer may be served under one of the Company's general service or industrial rate schedules that does not otherwise provide for parallel operation of a customer generator The Nameplate Rating of the Customer's installed generation system and equipment must not exceed the Customer's Contract Demand or 1000 kW, whichever is less.
3. If the electricity supplied to the Customer by the Company exceeds the electricity delivered to the grid by the Customer-Generator during a monthly billing period, the Customer-Generator shall be billed for the net electricity in kilowatt hours supplied by the Company, plus any demand or other charges under the applicable rate schedule. If the electricity delivered to the grid by the Customer-Generator exceeds the electricity in kilowatt hours supplied by the utility during a monthly billing period, the Customer-Generator shall be credited for the excess kilowatt hours generated during that billing period. Charges or credits will be determined using the appropriate energy rates of the applicable rate schedule as further outlined in the RATE paragraph below.
4. All other provisions of the applicable rate schedule including, but not limited to, Determination of Billing Demand, Determination of On-Peak, Off-Peak, and Discount Hours, Contract Demand, Approved Fuel Charge Adjustments, etc. will apply to service supplied under this Rider.
5. If the Customer is not the owner of the premises receiving electric service from the Company, the Company shall have the right to require that the owner of the premises give satisfactory written approval of the Customer's request for service under this Rider.
6. Customers served under this Rider are not eligible to participate in NC GreenPower.
7. For any customer receiving service under a non-time of use demand rate schedule, any renewable energy credits (RECs) shall be retained by the Company.

RATE

The rate shall be based on the applicable rate schedule, and the monthly bill shall be determined as follows:

I. The Basic Customer Charge shall be the Basic Customer Charge from the applicable rate schedule.

II. The Demand Charge shall be determined from the applicable schedule as appropriate.

III. Energy Charges (or Credits) shall be based on the net kilowatt hours purchased from or delivered to the Company for the bill month. For any bill month during which the Energy Charges are a net credit, the respective Energy Charges for the month shall be zero. Any Energy Credits shall carry forward on following month's bill. If the customer is on a time of use rate, the Energy Credits shall carry forward by first applying excess On-Peak kWh against On-Peak kWh charges, excess Off-peak kWh against Off-peak kWh charges and excess Discount kWh against Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Off-Peak kWh charges, then applying any remaining

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

excess Off-Peak kWh against any remaining Discount kWh charges, then applying any remaining excess On-Peak kWh against any remaining Discount kWh charges. Effective with the seasonal rate change each year, any accrued credit not used to reduce billed kWh usage shall be reset to zero each April 30th. Excess energy delivered prior to April 30th will only be used to reduce usage by Company prior to April 30th. Credits shall not offset the Basic Customer Charge or the Demand Charge.

IV. A Standby Charge of $2.00 per kW per month shall apply to customers with a generation system larger than 100 kW, excluding customers served under a time-of-use demand rate schedule with a generation system with less than 60% planning capacity factor as determined by the Company. If applicable, the Standby kW will be the Nameplate Rating of the Customer's generation system.

MINIMUM BILL

The monthly minimum bill for Customers receiving service under this Rider shall be no less than the Basic Customer Charge plus, if applicable, any of the following charges: Demand Charges, the Standby Charge, and the Extra Facilities Charge.

METERING REQUIREMENTS

The Company will furnish, install, own and maintain metering to measure the kilowatt demand delivered by the Company to the Customer, and to measure the net kilowatt-hours purchased by the Customer or delivered to the Company. The Company shall have the right to install special metering and load research devices on the Customer's equipment and the right to use the Customer's telephone line for communication with the Company's and the Customer's equipment.

SAFETY, INTERCONNECTION AND INSPECTION REQUIREMENTS

This Rider is only applicable for installed generation systems and equipment that comply with the provisions outlined in the North Carolina Interconnection Procedures, Forms, and Agreements for State-Jurisdictional Generator Interconnections (hereinafter "Interconnection Procedures") as approved by the North Carolina Utilities Commission.

The Customer must submit a Request to Interconnect, which must be accepted by the Company, pay an application fee, comply with the liability insurance requirements of the Interconnection Procedures and enter into a specific contract providing for interconnection to the Company's system.

In order to ensure protection of the Company's system, the Company reserves the right, at its discretion, to inspect the Customer's generation system and equipment at any time upon reasonable notice to the Customer in an effort to ensure compliance with the Interconnection Procedures. The Company reserves the right to disconnect electric service to the premises if the Company determines that the Customer's generation system and equipment is not in compliance with the Interconnection Procedures and is being operated in parallel with the Company's system.

The Customer shall be responsible for any costs incurred by the Company pursuant to the Interconnection Procedures. The Company reserves the right to require additional interconnection facilities, furnished, installed, owned and maintained by the Company, at the Customer's expense, if the Customer's system, despite compliance with the Interconnection Procedures, causes safety, reliability or power quality problems. These additional facilities will be subject to a monthly charge under the Extra Facilities provisions of the Company's Service Regulations provided, however, that the minimum Extra Facilities charge shall not apply.

POWER FACTOR CORRECTION

When the average monthly power factor of the power supplied by the Customer to the Company is less than 90 percent or greater than 97 percent, the Company may correct the energy in kilowatt-hours, as appropriate. The Company reserves the right to install facilities necessary for the measurement of power factor. The Company will not install such equipment, nor make a power factor correction if the generator system is less than 20 kW and uses an inverter.

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fourteenth Revised Leaf No. 72
Superseding NC Thirteenth Revised Leaf No. 72

OFFICIAL COPY
Sep 26 2023

RIDER NM
NET METERING

CONTRACT PERIOD

Each Customer shall enter into a contract for a minimum original term of one (1) year, except that either party may terminate the contract after one year by giving at least sixty (60) days previous notice of such termination in writing.

The Company reserves the right to terminate the Customer's contract under this Rider at any time upon written notice to the Customer in the event that the Customer violates any of the terms or conditions of this Rider, or operates the generation system and equipment in a manner which is detrimental to the Company or any of its customers. In the event of early termination of a contract under this Rider, the Customer will be required to pay the Company for the costs due to such early cancellation, in accordance with the Company's North Carolina Service Regulations.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

AVAILABILITY

Available to the individual customer for lighting of outdoor areas at locations on the Company's distribution system. Service under this Schedule may be withheld or discontinued at the option of the Company.

RATE

All-night outdoor lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
		High Pressure Sodium Vapor*			
4,000	21	Post Top (2)	NA	NA	$22.87
9,500	47	Suburban (3)	$14.08	$21.45	$26.07
9,500	47	Urban	$15.88	$23.25	$27.87
13,000	56	Suburban (4) (in suitable mercury fixture)	$15.42	NA	NA
16,000	70	Urban	$17.18	$24.55	$29.17
27,500	104	Urban	$20.33	$27.70	$32.32
50,000	156	Urban	$24.77	$32.14	$36.76
16,000	70	Floodlight	$21.24	$28.61	$33.23
27,500	104	Floodlight	$25.04	$32.41	$27.03
50,000	156	Floodlight	$28.16	$35.53	$40.15
		Metal Halide*			
9,000	43	Urban	$18.23	$25.60	$30.22
40,000	155	Urban	$29.46	$36.83	$41.45
78,000	295	Area	$68.07	$75.44	$80.06
110,000	395	Area	$93.05	$100.42	$105.04
40,000	155	Floodlight	$31.26	$38.63	$43.25
34,000	180	Floodlight (10)	$29.33	$36.70	NA
34,000	180	Floodlight (10)	NA	$40.52	$41.32
110,000	217	Floodlight (half night) (10)	$42.66	$50.03	$54.65
110,000	435	Floodlight (10)	NA	$79.12	NA
110,000	435	Floodlight (10)	$72.68	$80.05	$84.67
		Mercury Vapor*			
4,000	41	Suburban (7)	$12.67	NA	NA
4,000	41	Post Top (2)	$11.64 (5)	NA	$23.63 (6)
4,000	41	Post Top (7)	$15.37	NA	NA
7,500	75	Suburban (3)	$12.74	$20.11	$24.73
7,500	75	Urban (6)	$14.34	$21.71	$26.33
7,500	75	Post Top (7)	$21.90	NA	NA
20,000	152	Urban (6)	$19.73	$27.10	$31.72
		Light Emitting Diode (8) (9)			
3,700	~~11~~10	Area 30 watts	$9.53	$16.90	$21.52
4,500	14	Area 40 watts	$9.93	$17.30	$21.92
5,500	18	Area 50 watts	$12.56	$19.93	$24.55
8,000	25	Area 70 watts	$12.86	$20.23	$24.85
15,500	40	Area 110 watts	$15.63	$23.00	$27.62
20,000	54	Area 150 watts	$17.44	$24.81	$29.43

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
30,500	79	Area 220 watts	$20.50	$27.87	$32.49
36,000	101	Area 280 watts	$23.39	$30.76	$35.38
44,500	151	Area 420 watts	$49.38	$56.75	$61.37
57,000	179	Area 530 watts	$55.39	$62.76	$67.38
16,500	47	Floodlight 130 watts	$26.74	$34.11	$38.73
33,500	48	Floodlight 260 watts (half night) (10)	$56.25	$63.62	$68.24
33,500	95	Floodlight 260 watts	$57.88	$65.25	$69.87

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture failure and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(2) Luminaire is not available for the lighting of streets, roadways, and other vehicle thoroughfares.

(3) Closed to new installations on or after July 1, 2005.

(4) Closed to new installations on or after September 15, 1985.

(5) Closed to new installations on or after November 12, 1991.

(6) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(7) Closed to new installations.

(8) Light Emitting Diode (LED) luminaires are available for new installations after January 28, 2014, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires and for customer requested replacements of existing high pressure sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(9) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2019. The Company will replace post top mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2024.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) Additional monthly charge for the underground conductor system: $0.07 for each increment of 10 feet, or less, over 150 feet per pole.

(2) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(3) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

OFFICIAL COPY
Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

(4) An underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, the charges under provision (1) of this section will apply in addition to the $4.62 charge.

(5) Additional monthly charge for the underground conductor system for existing pole installations in-service prior to November 12, 1991:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) For non-floodlight luminaires, color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $1.01 per lamp per month. For non-floodlight luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new non-flood luminaires on or after October 1, 2007.

(2) All non-floodlight luminaires will be installed on standard 30-foot wood poles. At Customer request, and for an additional charge, all non-floodlight luminaires can be installed on wood poles larger than the standard 30-foot, if the location permits the use of bucket-type equipment for mounting and servicing: 35-foot pole for 30 cents per month, or 40-foot pole for 41 cents per month.

(3) All luminaires installed on wood poles longer than 40-feet, or structures other than standard wood poles, can be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(4) All non-floodlight luminaires, with brackets longer than 30 inches but not longer than 20 feet, can be installed where use of bucket-type equipment is permitted for an extra charge of 71 cents per month per bracket.

(5) Where two or more luminaires were installed for service before November 12, 1991 on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(6) Luminaire locations shall be designated by the Customer and where only an extension of secondary facilities is required from the nearest distribution source, the rate per luminaire as stated above shall apply. When the number of required poles exceeds the number of luminaires requested, a monthly charge not less than $1.72 per standard wood pole shall apply for luminaires installed for service before November 12, 1991. A monthly charge of $7.37 per standard wood pole shall apply for luminaires installed for service after November 12, 1991. When any installation requires an extension of

OFFICIAL COPY

Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

primary facilities solely to serve the luminaires, an additional monthly charge equal to 1.0% of the estimated cost of the primary extension shall apply. Should any installation require guying of secondary facilities, a charge of 61 cents per month per guy shall apply.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires installed by the Company as standard, post top and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated by the Company as decorative or nonstandard, and for all standard luminaires mounted on supports other than standard wood poles or other non-standard supports, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

AVAILABILITY

Available to the individual customer for lighting of outdoor areas at locations on the Company's distribution system. Service under this Schedule may be withheld or discontinued at the option of the Company.

RATE

All-night outdoor lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
		High Pressure Sodium Vapor*			
4,000	21	Post Top (2)	NA	NA	$22.87
9,500	47	Suburban (3)	$14.08	$21.45	$26.07
9,500	47	Urban	$15.88	$23.25	$27.87
13,000	56	Suburban (4) (in suitable mercury fixture)	$15.42	NA	NA
16,000	70	Urban	$17.18	$24.55	$29.17
27,500	104	Urban	$20.33	$27.70	$32.32
50,000	156	Urban	$24.77	$32.14	$36.76
16,000	70	Floodlight	$21.24	$28.61	$33.23
27,500	104	Floodlight	$25.04	$32.41	$27.03
50,000	156	Floodlight	$28.16	$35.53	$40.15
		Metal Halide*			
9,000	43	Urban	$18.23	$25.60	$30.22
40,000	155	Urban	$29.46	$36.83	$41.45
78,000	295	Area	$68.07	$75.44	$80.06
110,000	395	Area	$93.05	$100.42	$105.04
40,000	155	Floodlight	$31.26	$38.63	$43.25
34,000	180	Floodlight (10)	$29.33	$36.70	NA
34,000	180	Floodlight (10)	NA	$40.52	$41.32
110,000	217	Floodlight (half night) (10)	$42.66	$50.03	$54.65
110,000	435	Floodlight (10)	NA	$79.12	NA
110,000	435	Floodlight (10)	$72.68	$80.05	$84.67
		Mercury Vapor*			
4,000	41	Suburban (7)	$12.67	NA	NA
4,000	41	Post Top (2)	$11.64 (5)	NA	$23.63 (6)
4,000	41	Post Top (7)	$15.37	NA	NA
7,500	75	Suburban (3)	$12.74	$20.11	$24.73
7,500	75	Urban (6)	$14.34	$21.71	$26.33
7,500	75	Post Top (7)	$21.90	NA	NA
20,000	152	Urban (6)	$19.73	$27.10	$31.72
		Light Emitting Diode (8) (9)			
3,700	10	Area 30 watts	$9.53	$16.90	$21.52
4,500	14	Area 40 watts	$9.93	$17.30	$21.92
5,500	18	Area 50 watts	$12.56	$19.93	$24.55
8,000	25	Area 70 watts	$12.86	$20.23	$24.85
15,500	40	Area 110 watts	$15.63	$23.00	$27.62
20,000	54	Area 150 watts	$17.44	$24.81	$29.43

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
30,500	79	Area 220 watts	$20.50	$27.87	$32.49
36,000	101	Area 280 watts	$23.39	$30.76	$35.38
44,500	151	Area 420 watts	$49.38	$56.75	$61.37
57,000	179	Area 530 watts	$55.39	$62.76	$67.38
16,500	47	Floodlight 130 watts	$26.74	$34.11	$38.73
33,500	48	Floodlight 260 watts (half night) (10)	$56.25	$63.62	$68.24
33,500	95	Floodlight 260 watts	$57.88	$65.25	$69.87

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture failure and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(2) Luminaire is not available for the lighting of streets, roadways, and other vehicle thoroughfares.

(3) Closed to new installations on or after July 1, 2005.

(4) Closed to new installations on or after September 15, 1985.

(5) Closed to new installations on or after November 12, 1991.

(6) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(7) Closed to new installations.

(8) Light Emitting Diode (LED) luminaires are available for new installations after January 28, 2014, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires and for customer requested replacements of existing high pressure sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(9) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2019. The Company will replace post top mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2024.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) Additional monthly charge for the underground conductor system: $0.07 for each increment of 10 feet, or less, over 150 feet per pole.

(2) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(3) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

OFFICIAL COPY
Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

(4) An underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, the charges under provision (1) of this section will apply in addition to the $4.62 charge.

(5) Additional monthly charge for the underground conductor system for existing pole installations in-service prior to November 12, 1991:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) For non-floodlight luminaires, color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $1.01 per lamp per month. For non-floodlight luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new non-flood luminaires on or after October 1, 2007.

(2) All non-floodlight luminaires will be installed on standard 30-foot wood poles. At Customer request, and for an additional charge, all non-floodlight luminaires can be installed on wood poles larger than the standard 30-foot, if the location permits the use of bucket-type equipment for mounting and servicing: 35-foot pole for 30 cents per month, or 40-foot pole for 41 cents per month.

(3) All luminaires installed on wood poles longer than 40-feet, or structures other than standard wood poles, can be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(4) All non-floodlight luminaires, with brackets longer than 30 inches but not longer than 20 feet, can be installed where use of bucket-type equipment is permitted for an extra charge of 71 cents per month per bracket.

(5) Where two or more luminaires were installed for service before November 12, 1991 on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(6) Luminaire locations shall be designated by the Customer and where only an extension of secondary facilities is required from the nearest distribution source, the rate per luminaire as stated above shall apply. When the number of required poles exceeds the number of luminaires requested, a monthly charge not less than $1.72 per standard wood pole shall apply for luminaires installed for service before November 12, 1991. A monthly charge of $7.37 per standard wood pole shall apply for luminaires installed for service after November 12, 1991. When any installation requires an extension of

OFFICIAL COPY

Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

primary facilities solely to serve the luminaires, an additional monthly charge equal to 1.0% of the estimated cost of the primary extension shall apply. Should any installation require guying of secondary facilities, a charge of 61 cents per month per guy shall apply.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires installed by the Company as standard, post top and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated by the Company as decorative or nonstandard, and for all standard luminaires mounted on supports other than standard wood poles or other non-standard supports, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

AVAILABILITY

Available to the individual customer for lighting of outdoor areas at locations on the Company's distribution system. Service under this Schedule may be withheld or discontinued at the option of the Company.

RATE

All-night outdoor lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
		High Pressure Sodium Vapor*			
4,000	21	Post Top (2)	NA	NA	$24.45
9,500	47	Suburban (3)	$15.05	$21.98	$26.60
9,500	47	Urban	$16.97	$23.90	$28.52
13,000	56	Suburban (4) (in suitable mercury fixture)	$16.49	NA	NA
16,000	70	Urban	$18.37	$25.30	$29.92
27,500	104	Urban	$21.74	$28.67	$33.29
50,000	156	Urban	$26.48	$33.41	$38.03
16,000	70	Floodlight	$22.71	$29.64	$34.26
27,500	104	Floodlight	$26.77	$33.70	$38.32
50,000	156	Floodlight	$30.11	$37.04	$41.66
		Metal Halide*			
9,000	43	Urban	$19.48	$26.41	$31.03
40,000	155	Urban	$31.50	$38.43	$43.05
78,000	295	Area	$72.77	$79.70	$84.32
110,000	395	Area	$99.48	$106.41	$111.03
40,000	155	Floodlight	$33.42	$40.35	$44.97
34,000	180	Floodlight (10)	$31.35	$38.28	NA
34,000	180	Floodlight (10)	NA	$42.10	$42.90
110,000	217	Floodlight (half night) (10)	$45.61	$52.54	$57.16
110,000	435	Floodlight (10)	NA	$83.70	NA
110,000	435	Floodlight (10)	$77.70	$84.63	$89.25
		Mercury Vapor*			
4,000	41	Suburban (7)	$13.55	NA	NA
4,000	41	Post Top (2)	$12.45 (5)	NA	$24.00 (6)
4,000	41	Post Top (7)	$16.43	NA	NA
7,500	75	Suburban (3)	$13.62	$20.55	$25.17
7,500	75	Urban (6)	$15.33	$22.26	$26.88
7,500	75	Post Top (7)	$23.42	NA	NA
20,000	152	Urban (6)	$21.09	$28.02	$32.64
		Light Emitting Diode (8) (9)			
3,700	~~11~~10	Area 30 watts	$12.38	$19.31	$23.93
4,500	14	Area 40 watts	$12.90	$19.83	$24.45
5,500	18	Area 50 watts	$13.28	$20.21	$24.83
8,000	25	Area 70 watts	$13.60	$20.53	$25.15
15,500	40	Area 110 watts	$16.54	$23.47	$28.09
20,000	54	Area 150 watts	$18.44	$25.37	$29.99

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
30,500	79	Area 220 watts	$21.69	$28.62	$33.24
36,000	101	Area 280 watts	$24.75	$31.68	$36.30
44,500	151	Area 420 watts	$52.23	$59.16	$63.78
57,000	179	Area 530 watts	$58.60	$65.53	$70.15
16,500	47	Floodlight 130 watts	$28.29	$35.22	$39.84
33,500	48	Floodlight 260 watts (half night) (10)	$59.50	$66.43	$71.05
33,500	95	Floodlight 260 watts	$61.23	$68.16	$72.78

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture failure and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(2) Luminaire is not available for the lighting of streets, roadways, and other vehicle thoroughfares.

(3) Closed to new installations on or after July 1, 2005.

(4) Closed to new installations on or after September 15, 1985.

(5) Closed to new installations on or after November 12, 1991.

(6) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(7) Closed to new installations.

(8) Light Emitting Diode (LED) luminaires are available for new installations after January 28, 2014, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires and for customer requested replacements of existing high pressure sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(9) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2019. The Company will replace post top mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2024.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) Additional monthly charge for the underground conductor system: $0.07 for each increment of 10 feet, or less, over 150 feet per pole.

(2) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(3) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

OFFICIAL COPY
Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

(4) An underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, the charges under provision (1) of this section will apply in addition to the $4.62 charge.

(5) Additional monthly charge for the underground conductor system for existing pole installations in-service prior to November 12, 1991:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) For non-floodlight luminaires, color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $1.01 per lamp per month. For non-floodlight luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new non-flood luminaires on or after October 1, 2007.

(2) All non-floodlight luminaires will be installed on standard 30-foot wood poles. At Customer request, and for an additional charge, all non-floodlight luminaires can be installed on wood poles larger than the standard 30-foot, if the location permits the use of bucket-type equipment for mounting and servicing: 35-foot pole for 30 cents per month, or 40-foot pole for 41 cents per month.

(3) All luminaires installed on wood poles longer than 40-feet, or structures other than standard wood poles, can be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(4) All non-floodlight luminaires, with brackets longer than 30 inches but not longer than 20 feet, can be installed where use of bucket-type equipment is permitted for an extra charge of 71 cents per month per bracket.

(5) Where two or more luminaires were installed for service before November 12, 1991 on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(6) Luminaire locations shall be designated by the Customer and where only an extension of secondary facilities is required from the nearest distribution source, the rate per luminaire as stated above shall apply. When the number of required poles exceeds the number of luminaires requested, a monthly charge not less than $1.72 per standard wood pole shall

OFFICIAL COPY

Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

apply for luminaires installed for service before November 12, 1991. A monthly charge of $6.93 per standard wood pole shall apply for luminaires installed for service after November 12, 1991. When any installation requires an extension of primary facilities solely to serve the luminaires, an additional monthly charge equal to 1.0% of the estimated cost of the primary extension shall apply. Should any installation require guying of secondary facilities, a charge of 61 cents per month per guy shall apply.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires installed by the Company as standard, post top and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated by the Company as decorative or nonstandard, and for all standard luminaires mounted on supports other than standard wood poles or other non-standard supports, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

AVAILABILITY

Available to the individual customer for lighting of outdoor areas at locations on the Company's distribution system. Service under this Schedule may be withheld or discontinued at the option of the Company.

RATE

All-night outdoor lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
		High Pressure Sodium Vapor*			
4,000	21	Post Top (2)	NA	NA	$24.45
9,500	47	Suburban (3)	$15.05	$21.98	$26.60
9,500	47	Urban	$16.97	$23.90	$28.52
13,000	56	Suburban (4) (in suitable mercury fixture)	$16.49	NA	NA
16,000	70	Urban	$18.37	$25.30	$29.92
27,500	104	Urban	$21.74	$28.67	$33.29
50,000	156	Urban	$26.48	$33.41	$38.03
16,000	70	Floodlight	$22.71	$29.64	$34.26
27,500	104	Floodlight	$26.77	$33.70	$38.32
50,000	156	Floodlight	$30.11	$37.04	$41.66
		Metal Halide*			
9,000	43	Urban	$19.48	$26.41	$31.03
40,000	155	Urban	$31.50	$38.43	$43.05
78,000	295	Area	$72.77	$79.70	$84.32
110,000	395	Area	$99.48	$106.41	$111.03
40,000	155	Floodlight	$33.42	$40.35	$44.97
34,000	180	Floodlight (10)	$31.35	$38.28	NA
34,000	180	Floodlight (10)	NA	$42.10	$42.90
110,000	217	Floodlight (half night) (10)	$45.61	$52.54	$57.16
110,000	435	Floodlight (10)	NA	$83.70	NA
110,000	435	Floodlight (10)	$77.70	$84.63	$89.25
		Mercury Vapor*			
4,000	41	Suburban (7)	$13.55	NA	NA
4,000	41	Post Top (2)	$12.45 (5)	NA	$24.00 (6)
4,000	41	Post Top (7)	$16.43	NA	NA
7,500	75	Suburban (3)	$13.62	$20.55	$25.17
7,500	75	Urban (6)	$15.33	$22.26	$26.88
7,500	75	Post Top (7)	$23.42	NA	NA
20,000	152	Urban (6)	$21.09	$28.02	$32.64
		Light Emitting Diode (8) (9)			
3,700	10	Area 30 watts	$12.38	$19.31	$23.93
4,500	14	Area 40 watts	$12.90	$19.83	$24.45
5,500	18	Area 50 watts	$13.28	$20.21	$24.83
8,000	25	Area 70 watts	$13.60	$20.53	$25.15
15,500	40	Area 110 watts	$16.54	$23.47	$28.09
20,000	54	Area 150 watts	$18.44	$25.37	$29.99

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
30,500	79	Area 220 watts	$21.69	$28.62	$33.24
36,000	101	Area 280 watts	$24.75	$31.68	$36.30
44,500	151	Area 420 watts	$52.23	$59.16	$63.78
57,000	179	Area 530 watts	$58.60	$65.53	$70.15
16,500	47	Floodlight 130 watts	$28.29	$35.22	$39.84
33,500	48	Floodlight 260 watts (half night) (10)	$59.50	$66.43	$71.05
33,500	95	Floodlight 260 watts	$61.23	$68.16	$72.78

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture failure and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(2) Luminaire is not available for the lighting of streets, roadways, and other vehicle thoroughfares.

(3) Closed to new installations on or after July 1, 2005.

(4) Closed to new installations on or after September 15, 1985.

(5) Closed to new installations on or after November 12, 1991.

(6) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(7) Closed to new installations.

(8) Light Emitting Diode (LED) luminaires are available for new installations after January 28, 2014, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires and for customer requested replacements of existing high pressure sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(9) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2019. The Company will replace post top mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2024.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) Additional monthly charge for the underground conductor system: $0.07 for each increment of 10 feet, or less, over 150 feet per pole.

(2) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(3) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

OFFICIAL COPY
Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

(4) An underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, the charges under provision (1) of this section will apply in addition to the $4.62 charge.

(5) Additional monthly charge for the underground conductor system for existing pole installations in-service prior to November 12, 1991:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) For non-floodlight luminaires, color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $1.01 per lamp per month. For non-floodlight luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new non-flood luminaires on or after October 1, 2007.

(2) All non-floodlight luminaires will be installed on standard 30-foot wood poles. At Customer request, and for an additional charge, all non-floodlight luminaires can be installed on wood poles larger than the standard 30-foot, if the location permits the use of bucket-type equipment for mounting and servicing: 35-foot pole for 30 cents per month, or 40-foot pole for 41 cents per month.

(3) All luminaires installed on wood poles longer than 40-feet, or structures other than standard wood poles, can be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(4) All non-floodlight luminaires, with brackets longer than 30 inches but not longer than 20 feet, can be installed where use of bucket-type equipment is permitted for an extra charge of 71 cents per month per bracket.

(5) Where two or more luminaires were installed for service before November 12, 1991 on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(6) Luminaire locations shall be designated by the Customer and where only an extension of secondary facilities is required from the nearest distribution source, the rate per luminaire as stated above shall apply. When the number of required poles exceeds the number of luminaires requested, a monthly charge not less than $1.72 per standard wood pole shall

OFFICIAL COPY

Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

apply for luminaires installed for service before November 12, 1991. A monthly charge of $6.93 per standard wood pole shall apply for luminaires installed for service after November 12, 1991. When any installation requires an extension of primary facilities solely to serve the luminaires, an additional monthly charge equal to 1.0% of the estimated cost of the primary extension shall apply. Should any installation require guying of secondary facilities, a charge of 61 cents per month per guy shall apply.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires installed by the Company as standard, post top and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated by the Company as decorative or nonstandard, and for all standard luminaires mounted on supports other than standard wood poles or other non-standard supports, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

AVAILABILITY

Available to the individual customer for lighting of outdoor areas at locations on the Company's distribution system. Service under this Schedule may be withheld or discontinued at the option of the Company.

RATE

All-night outdoor lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
		High Pressure Sodium Vapor*			
4,000	21	Post Top (2)	NA	NA	$25.62
9,500	47	Suburban (3)	$15.77	$22.92	$27.54
9,500	47	Urban	$17.78	$24.93	$29.55
13,000	56	Suburban (4) (in suitable mercury fixture)	$17.27	NA	NA
16,000	70	Urban	$19.24	$26.39	$31.01
27,500	104	Urban	$22.77	$29.92	$34.54
50,000	156	Urban	$27.75	$34.90	$39.52
16,000	70	Floodlight	$23.80	$30.95	$35.57
27,500	104	Floodlight	$28.05	$35.20	$39.82
50,000	156	Floodlight	$31.55	$38.70	$43.32
		Metal Halide*			
9,000	43	Urban	$20.42	$27.57	$32.19
40,000	155	Urban	$33.00	$40.15	$44.77
78,000	295	Area	$76.24	$83.39	$88.01
110,000	395	Area	$104.23	$111.38	$116.00
40,000	155	Floodlight	$35.02	$42.17	$46.79
34,000	180	Floodlight (10)	$32.85	$40.00	NA
34,000	180	Floodlight (10)	NA	$43.82	$44.62
110,000	217	Floodlight (half night) (10)	$47.79	$54.94	$59.56
110,000	435	Floodlight (10)	NA	$87.63	NA
110,000	435	Floodlight (10)	$81.41	$88.56	$93.18
		Mercury Vapor*			
4,000	41	Suburban (7)	$14.19	NA	NA
4,000	41	Post Top (2)	$13.04 (5)	NA	$24.81 (6)
4,000	41	Post Top (7)	$17.22	NA	NA
7,500	75	Suburban (3)	$14.27	$21.42	$26.04
7,500	75	Urban (6)	$16.07	$23.22	$27.84
7,500	75	Post Top (7)	$24.53	NA	NA
20,000	152	Urban (6)	$22.10	$29.25	$33.87
		Light Emitting Diode (8) (9)			
3,700	~~11~~10	Area 30 watts	$12.88	$20.03	$24.65
4,500	14	Area 40 watts	$13.43	$20.58	$25.20
5,500	18	Area 50 watts	$13.82	$20.97	$25.59
8,000	25	Area 70 watts	$14.15	$21.30	$25.92
15,500	40	Area 110 watts	$17.20	$24.35	$28.97
20,000	54	Area 150 watts	$19.19	$26.34	$30.96

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
30,500	79	Area 220 watts	$22.56	$29.71	$34.33
36,000	101	Area 280 watts	$25.75	$32.90	$37.52
44,500	151	Area 420 watts	$54.34	$61.49	$66.11
57,000	179	Area 530 watts	$60.97	$68.12	$72.74
16,500	47	Floodlight 130 watts	$29.43	$36.58	$41.20
33,500	48	Floodlight 260 watts (half night) (10)	$61.91	$69.06	$73.68
33,500	95	Floodlight 260 watts	$63.71	$70.86	$75.48

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture failure and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(2) Luminaire is not available for the lighting of streets, roadways, and other vehicle thoroughfares.

(3) Closed to new installations on or after July 1, 2005.

(4) Closed to new installations on or after September 15, 1985.

(5) Closed to new installations on or after November 12, 1991.

(6) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(7) Closed to new installations.

(8) Light Emitting Diode (LED) luminaires are available for new installations after January 28, 2014, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires and for customer requested replacements of existing high pressure sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(9) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2019. The Company will replace post top mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2024.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) Additional monthly charge for the underground conductor system: $0.07 for each increment of 10 feet, or less, over 150 feet per pole.

(2) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(3) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

OFFICIAL COPY
Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

(4) An underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, the charges under provision (1) of this section will apply in addition to the $4.62 charge.

(5) Additional monthly charge for the underground conductor system for existing pole installations in-service prior to November 12, 1991:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) For non-floodlight luminaires, color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $1.01 per lamp per month. For non-floodlight luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new non-flood luminaires on or after October 1, 2007.

(2) All non-floodlight luminaires will be installed on standard 30-foot wood poles. At Customer request, and for an additional charge, all non-floodlight luminaires can be installed on wood poles larger than the standard 30-foot, if the location permits the use of bucket-type equipment for mounting and servicing: 35-foot pole for 30 cents per month, or 40-foot pole for 41 cents per month.

(3) All luminaires installed on wood poles longer than 40-feet, or structures other than standard wood poles, can be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(4) All non-floodlight luminaires, with brackets longer than 30 inches but not longer than 20 feet, can be installed where use of bucket-type equipment is permitted for an extra charge of 71 cents per month per bracket.

(5) Where two or more luminaires were installed for service before November 12, 1991 on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(6) Luminaire locations shall be designated by the Customer and where only an extension of secondary facilities is required from the nearest distribution source, the rate per luminaire as stated above shall apply. When the number of required poles exceeds the number of luminaires requested, a monthly charge not less than $1.72 per standard wood pole shall

OFFICIAL COPY

Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

apply for luminaires installed for service before November 12, 1991. A monthly charge of $7.15 per standard wood pole shall apply for luminaires installed for service after November 12, 1991. When any installation requires an extension of primary facilities solely to serve the luminaires, an additional monthly charge equal to 1.0% of the estimated cost of the primary extension shall apply. Should any installation require guying of secondary facilities, a charge of 61 cents per month per guy shall apply.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires installed by the Company as standard, post top and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated by the Company as decorative or nonstandard, and for all standard luminaires mounted on supports other than standard wood poles or other non-standard supports, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

AVAILABILITY

Available to the individual customer for lighting of outdoor areas at locations on the Company's distribution system. Service under this Schedule may be withheld or discontinued at the option of the Company.

RATE

All-night outdoor lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
		High Pressure Sodium Vapor*			
4,000	21	Post Top (2)	NA	NA	$25.62
9,500	47	Suburban (3)	$15.77	$22.92	$27.54
9,500	47	Urban	$17.78	$24.93	$29.55
13,000	56	Suburban (4) (in suitable mercury fixture)	$17.27	NA	NA
16,000	70	Urban	$19.24	$26.39	$31.01
27,500	104	Urban	$22.77	$29.92	$34.54
50,000	156	Urban	$27.75	$34.90	$39.52
16,000	70	Floodlight	$23.80	$30.95	$35.57
27,500	104	Floodlight	$28.05	$35.20	$39.82
50,000	156	Floodlight	$31.55	$38.70	$43.32
		Metal Halide*			
9,000	43	Urban	$20.42	$27.57	$32.19
40,000	155	Urban	$33.00	$40.15	$44.77
78,000	295	Area	$76.24	$83.39	$88.01
110,000	395	Area	$104.23	$111.38	$116.00
40,000	155	Floodlight	$35.02	$42.17	$46.79
34,000	180	Floodlight (10)	$32.85	$40.00	NA
34,000	180	Floodlight (10)	NA	$43.82	$44.62
110,000	217	Floodlight (half night) (10)	$47.79	$54.94	$59.56
110,000	435	Floodlight (10)	NA	$87.63	NA
110,000	435	Floodlight (10)	$81.41	$88.56	$93.18
		Mercury Vapor*			
4,000	41	Suburban (7)	$14.19	NA	NA
4,000	41	Post Top (2)	$13.04 (5)	NA	$24.81 (6)
4,000	41	Post Top (7)	$17.22	NA	NA
7,500	75	Suburban (3)	$14.27	$21.42	$26.04
7,500	75	Urban (6)	$16.07	$23.22	$27.84
7,500	75	Post Top (7)	$24.53	NA	NA
20,000	152	Urban (6)	$22.10	$29.25	$33.87
		Light Emitting Diode (8) (9)			
3,700	10	Area 30 watts	$12.88	$20.03	$24.65
4,500	14	Area 40 watts	$13.43	$20.58	$25.20
5,500	18	Area 50 watts	$13.82	$20.97	$25.59
8,000	25	Area 70 watts	$14.15	$21.30	$25.92
15,500	40	Area 110 watts	$17.20	$24.35	$28.97
20,000	54	Area 150 watts	$19.19	$26.34	$30.96

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
30,500	79	Area 220 watts	$22.56	$29.71	$34.33
36,000	101	Area 280 watts	$25.75	$32.90	$37.52
44,500	151	Area 420 watts	$54.34	$61.49	$66.11
57,000	179	Area 530 watts	$60.97	$68.12	$72.74
16,500	47	Floodlight 130 watts	$29.43	$36.58	$41.20
33,500	48	Floodlight 260 watts (half night) (10)	$61.91	$69.06	$73.68
33,500	95	Floodlight 260 watts	$63.71	$70.86	$75.48

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture failure and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(2) Luminaire is not available for the lighting of streets, roadways, and other vehicle thoroughfares.

(3) Closed to new installations on or after July 1, 2005.

(4) Closed to new installations on or after September 15, 1985.

(5) Closed to new installations on or after November 12, 1991.

(6) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(7) Closed to new installations.

(8) Light Emitting Diode (LED) luminaires are available for new installations after January 28, 2014, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires and for customer requested replacements of existing high pressure sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(9) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2019. The Company will replace post top mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2024.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) Additional monthly charge for the underground conductor system: $0.07 for each increment of 10 feet, or less, over 150 feet per pole.

(2) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(3) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

OFFICIAL COPY
Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

(4) An underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, the charges under provision (1) of this section will apply in addition to the $4.62 charge.

(5) Additional monthly charge for the underground conductor system for existing pole installations in-service prior to November 12, 1991:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) For non-floodlight luminaires, color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $1.01 per lamp per month. For non-floodlight luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new non-flood luminaires on or after October 1, 2007.

(2) All non-floodlight luminaires will be installed on standard 30-foot wood poles. At Customer request, and for an additional charge, all non-floodlight luminaires can be installed on wood poles larger than the standard 30-foot, if the location permits the use of bucket-type equipment for mounting and servicing: 35-foot pole for 30 cents per month, or 40-foot pole for 41 cents per month.

(3) All luminaires installed on wood poles longer than 40-feet, or structures other than standard wood poles, can be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(4) All non-floodlight luminaires, with brackets longer than 30 inches but not longer than 20 feet, can be installed where use of bucket-type equipment is permitted for an extra charge of 71 cents per month per bracket.

(5) Where two or more luminaires were installed for service before November 12, 1991 on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(6) Luminaire locations shall be designated by the Customer and where only an extension of secondary facilities is required from the nearest distribution source, the rate per luminaire as stated above shall apply. When the number of required poles exceeds the number of luminaires requested, a monthly charge not less than $1.72 per standard wood pole shall

OFFICIAL COPY

Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

apply for luminaires installed for service before November 12, 1991. A monthly charge of $7.15 per standard wood pole shall apply for luminaires installed for service after November 12, 1991. When any installation requires an extension of primary facilities solely to serve the luminaires, an additional monthly charge equal to 1.0% of the estimated cost of the primary extension shall apply. Should any installation require guying of secondary facilities, a charge of 61 cents per month per guy shall apply.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires installed by the Company as standard, post top and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated by the Company as decorative or nonstandard, and for all standard luminaires mounted on supports other than standard wood poles or other non-standard supports, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

AVAILABILITY

Available to the individual customer for lighting of outdoor areas at locations on the Company's distribution system. Service under this Schedule may be withheld or discontinued at the option of the Company.

RATE

All-night outdoor lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
		High Pressure Sodium Vapor*			
4,000	21	Post Top (2)	NA	NA	$26.24
9,500	47	Suburban (3)	$16.15	$23.52	$28.14
9,500	47	Urban	$18.22	$25.59	$30.21
13,000	56	Suburban (4) (in suitable mercury fixture)	$17.69	NA	NA
16,000	70	Urban	$19.71	$27.08	$31.70
27,500	104	Urban	$23.33	$30.70	$35.32
50,000	156	Urban	$28.42	$35.79	$40.41
16,000	70	Floodlight	$24.37	$31.74	$36.36
27,500	104	Floodlight	$28.73	$36.10	$40.72
50,000	156	Floodlight	$32.31	$39.68	$44.30
		Metal Halide*			
9,000	43	Urban	$20.91	$28.28	$32.90
40,000	155	Urban	$33.80	$41.17	$45.79
78,000	295	Area	$78.09	$85.46	$90.08
110,000	395	Area	$106.76	$114.13	$118.75
40,000	155	Floodlight	$35.87	$43.24	$47.86
34,000	180	Floodlight (10)	$33.65	$41.02	NA
34,000	180	Floodlight (10)	NA	$44.84	$45.64
110,000	217	Floodlight (half night) (10)	$48.95	$56.32	$60.94
110,000	435	Floodlight (10)	NA	$89.83	NA
110,000	435	Floodlight (10)	$83.39	$90.76	$95.38
		Mercury Vapor*			
4,000	41	Suburban (7)	$14.54	NA	NA
4,000	41	Post Top (2)	$13.36 (5)	NA	$25.35 (6)
4,000	41	Post Top (7)	$17.63	NA	NA
7,500	75	Suburban (3)	$14.61	$21.98	$26.60
7,500	75	Urban (6)	$16.46	$23.83	$28.45
7,500	75	Post Top (7)	$25.13	NA	NA
20,000	152	Urban (6)	$22.64	$30.01	$34.63
		Light Emitting Diode (8) (9)			
3,700	~~11~~10	Area 30 watts	$13.15	$20.52	$25.14
4,500	14	Area 40 watts	$13.70	$21.07	$25.69
5,500	18	Area 50 watts	$14.11	$21.48	$26.10
8,000	25	Area 70 watts	$14.44	$21.81	$26.43
15,500	40	Area 110 watts	$17.56	$24.93	$29.55
20,000	54	Area 150 watts	$19.59	$26.96	$31.58

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
30,500	79	Area 220 watts	$23.03	$30.40	$35.02
36,000	101	Area 280 watts	$26.28	$33.65	$38.27
44,500	151	Area 420 watts	$55.47	$62.84	$67.46
57,000	179	Area 530 watts	$62.23	$69.60	$74.22
16,500	47	Floodlight 130 watts	$30.04	$37.41	$42.03
33,500	48	Floodlight 260 watts (half night) (10)	$63.19	$70.56	$75.18
33,500	95	Floodlight 260 watts	$65.02	$72.39	$77.01

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture failure and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(2) Luminaire is not available for the lighting of streets, roadways, and other vehicle thoroughfares.

(3) Closed to new installations on or after July 1, 2005.

(4) Closed to new installations on or after September 15, 1985.

(5) Closed to new installations on or after November 12, 1991.

(6) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(7) Closed to new installations.

(8) Light Emitting Diode (LED) luminaires are available for new installations after January 28, 2014, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires and for customer requested replacements of existing high pressure sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(9) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2019. The Company will replace post top mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2024.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) Additional monthly charge for the underground conductor system: $0.07 for each increment of 10 feet, or less, over 150 feet per pole.

(2) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(3) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

OFFICIAL COPY
Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

(4) An underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, the charges under provision (1) of this section will apply in addition to the $4.62 charge.

(5) Additional monthly charge for the underground conductor system for existing pole installations in-service prior to November 12, 1991:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) For non-floodlight luminaires, color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $1.01 per lamp per month. For non-floodlight luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new non-flood luminaires on or after October 1, 2007.

(2) All non-floodlight luminaires will be installed on standard 30-foot wood poles. At Customer request, and for an additional charge, all non-floodlight luminaires can be installed on wood poles larger than the standard 30-foot, if the location permits the use of bucket-type equipment for mounting and servicing: 35-foot pole for 30 cents per month, or 40-foot pole for 41 cents per month.

(3) All luminaires installed on wood poles longer than 40-feet, or structures other than standard wood poles, can be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(4) All non-floodlight luminaires, with brackets longer than 30 inches but not longer than 20 feet, can be installed where use of bucket-type equipment is permitted for an extra charge of 71 cents per month per bracket.

(5) Where two or more luminaires were installed for service before November 12, 1991 on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(6) Luminaire locations shall be designated by the Customer and where only an extension of secondary facilities is required from the nearest distribution source, the rate per luminaire as stated above shall apply. When the number of required poles exceeds the number of luminaires requested, a monthly charge not less than $1.72 per standard wood pole shall

OFFICIAL COPY

Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

apply for luminaires installed for service before November 12, 1991. A monthly charge of $7.37 per standard wood pole shall apply for luminaires installed for service after November 12, 1991. When any installation requires an extension of primary facilities solely to serve the luminaires, an additional monthly charge equal to 1.0% of the estimated cost of the primary extension shall apply. Should any installation require guying of secondary facilities, a charge of 61 cents per month per guy shall apply.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires installed by the Company as standard, post top and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated by the Company as decorative or nonstandard, and for all standard luminaires mounted on supports other than standard wood poles or other non-standard supports, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

AVAILABILITY

Available to the individual customer for lighting of outdoor areas at locations on the Company's distribution system. Service under this Schedule may be withheld or discontinued at the option of the Company.

RATE

All-night outdoor lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
		High Pressure Sodium Vapor*			
4,000	21	Post Top (2)	NA	NA	$26.24
9,500	47	Suburban (3)	$16.15	$23.52	$28.14
9,500	47	Urban	$18.22	$25.59	$30.21
13,000	56	Suburban (4) (in suitable mercury fixture)	$17.69	NA	NA
16,000	70	Urban	$19.71	$27.08	$31.70
27,500	104	Urban	$23.33	$30.70	$35.32
50,000	156	Urban	$28.42	$35.79	$40.41
16,000	70	Floodlight	$24.37	$31.74	$36.36
27,500	104	Floodlight	$28.73	$36.10	$40.72
50,000	156	Floodlight	$32.31	$39.68	$44.30
		Metal Halide*			
9,000	43	Urban	$20.91	$28.28	$32.90
40,000	155	Urban	$33.80	$41.17	$45.79
78,000	295	Area	$78.09	$85.46	$90.08
110,000	395	Area	$106.76	$114.13	$118.75
40,000	155	Floodlight	$35.87	$43.24	$47.86
34,000	180	Floodlight (10)	$33.65	$41.02	NA
34,000	180	Floodlight (10)	NA	$44.84	$45.64
110,000	217	Floodlight (half night) (10)	$48.95	$56.32	$60.94
110,000	435	Floodlight (10)	NA	$89.83	NA
110,000	435	Floodlight (10)	$83.39	$90.76	$95.38
		Mercury Vapor*			
4,000	41	Suburban (7)	$14.54	NA	NA
4,000	41	Post Top (2)	$13.36 (5)	NA	$25.35 (6)
4,000	41	Post Top (7)	$17.63	NA	NA
7,500	75	Suburban (3)	$14.61	$21.98	$26.60
7,500	75	Urban (6)	$16.46	$23.83	$28.45
7,500	75	Post Top (7)	$25.13	NA	NA
20,000	152	Urban (6)	$22.64	$30.01	$34.63
		Light Emitting Diode (8) (9)			
3,700	10	Area 30 watts	$13.15	$20.52	$25.14
4,500	14	Area 40 watts	$13.70	$21.07	$25.69
5,500	18	Area 50 watts	$14.11	$21.48	$26.10
8,000	25	Area 70 watts	$14.44	$21.81	$26.43
15,500	40	Area 110 watts	$17.56	$24.93	$29.55
20,000	54	Area 150 watts	$19.59	$26.96	$31.58

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Sixty-First Revised Leaf No. 32
Superseding NC Sixtieth Revised Leaf No. 32

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (1)	New Pole	New Pole Served Underground
30,500	79	Area 220 watts	$23.03	$30.40	$35.02
36,000	101	Area 280 watts	$26.28	$33.65	$38.27
44,500	151	Area 420 watts	$55.47	$62.84	$67.46
57,000	179	Area 530 watts	$62.23	$69.60	$74.22
16,500	47	Floodlight 130 watts	$30.04	$37.41	$42.03
33,500	48	Floodlight 260 watts (half night) (10)	$63.19	$70.56	$75.18
33,500	95	Floodlight 260 watts	$65.02	$72.39	$77.01

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture failure and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(2) Luminaire is not available for the lighting of streets, roadways, and other vehicle thoroughfares.

(3) Closed to new installations on or after July 1, 2005.

(4) Closed to new installations on or after September 15, 1985.

(5) Closed to new installations on or after November 12, 1991.

(6) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(7) Closed to new installations.

(8) Light Emitting Diode (LED) luminaires are available for new installations after January 28, 2014, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires and for customer requested replacements of existing high pressure sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(9) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2019. The Company will replace post top mercury vapor luminaires with LED luminaires not otherwise replaced under Note 8 above by December 31, 2024.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) Additional monthly charge for the underground conductor system: $0.07 for each increment of 10 feet, or less, over 150 feet per pole.

(2) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(3) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

OFFICIAL COPY
Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

(4) An underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, the charges under provision (1) of this section will apply in addition to the $4.62 charge.

(5) Additional monthly charge for the underground conductor system for existing pole installations in-service prior to November 12, 1991:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) For non-floodlight luminaires, color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $1.01 per lamp per month. For non-floodlight luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new non-flood luminaires on or after October 1, 2007.

(2) All non-floodlight luminaires will be installed on standard 30-foot wood poles. At Customer request, and for an additional charge, all non-floodlight luminaires can be installed on wood poles larger than the standard 30-foot, if the location permits the use of bucket-type equipment for mounting and servicing: 35-foot pole for 30 cents per month, or 40-foot pole for 41 cents per month.

(3) All luminaires installed on wood poles longer than 40-feet, or structures other than standard wood poles, can be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(4) All non-floodlight luminaires, with brackets longer than 30 inches but not longer than 20 feet, can be installed where use of bucket-type equipment is permitted for an extra charge of 71 cents per month per bracket.

(5) Where two or more luminaires were installed for service before November 12, 1991 on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(6) Luminaire locations shall be designated by the Customer and where only an extension of secondary facilities is required from the nearest distribution source, the rate per luminaire as stated above shall apply. When the number of required poles exceeds the number of luminaires requested, a monthly charge not less than $1.72 per standard wood pole shall

OFFICIAL COPY

Sep 26 2023

SCHEDULE OL
OUTDOOR LIGHTING SERVICE

apply for luminaires installed for service before November 12, 1991. A monthly charge of $7.37 per standard wood pole shall apply for luminaires installed for service after November 12, 1991. When any installation requires an extension of primary facilities solely to serve the luminaires, an additional monthly charge equal to 1.0% of the estimated cost of the primary extension shall apply. Should any installation require guying of secondary facilities, a charge of 61 cents per month per guy shall apply.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires installed by the Company as standard, post top and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated by the Company as decorative or nonstandard, and for all standard luminaires mounted on supports other than standard wood poles or other non-standard supports, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

AVAILABILITY

Available for the purpose of lighting streets, highways, parks, and other public places for Municipal, County, State, and Federal Governments, at locations inside or outside municipal limits on the Company's distribution system. This Schedule is not available for service to non-governmental entities.

RATE

All-night street lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		High Pressure Sodium Vapor*			
9,500	47	Suburban (1)	$9.42	NA	NA
9,500	47	Urban	$10.79	NA	NA
13,000	56	Suburban (2) (in suitable mercury fixture)	$10.55	NA	NA
16,000	70	Urban	$11.77	NA	NA
27,500	104	Urban	$14.13	NA	NA
38,000	136	Urban (3) (in suitable mercury fixture)	$15.36	NA	NA
50,000	156	Urban	$17.52	NA	NA
140,000	391	Urban (installed on 55-foot wood pole)	$35.86	NA	NA
		Metal Halide*			
9,000	43	Urban	$17.16	NA	NA
40,000	155	Urban	$21.14	NA	NA
78,000	295	Area	$64.16	NA	NA
		Mercury Vapor*			
4,000	41	Suburban (1)	$6.21	NA	NA
7,500	75	Suburban (1)	$8.42	NA	NA
7,500	75	Urban (4)	$9.67	NA	NA
20,000	152	Urban (4)	$13.73	NA	NA
55,000	393	Urban (4)	$28.45	NA	NA
		Incandescent (5)			
	63	Suburban	$6.09	NA	NA
	63	Post Top	$2.29	NA	NA
		Light Emitting Diode (6) (7)			
3,700	~~11~~10	Area 30 watts	$7.44	$14.81	$19.43
4,500	14	Area 40 watts	$7.77	$15.14	$19.76
5,500	18	Area 50 watts	$10.13	$17.50	$22.12
8,000	25	Area 70 watts	$10.37	$17.74	$22.36
15,500	40	Area 110 watts	$12.60	$19.97	$24.59
20,000	54	Area 150 watts	$14.07	$21.44	$26.06
30,500	79	Area 220 watts	$16.52	$23.89	$28.51
36,000	101	Area 280 watts	$18.88	$26.25	$30.87
44,500	151	Area 420 watts	$39.80	$47.17	$51.79
57,000	179	Area 530 watts	$56.96	$64.33	$68.95

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		Floodlight Service*			
16,000	70	High Pressure Sodium Vapor	$20.87	$28.24	$32.86
27,500	104	High Pressure Sodium Vapor	$24.60	$31.97	$36.59
50,000	156	High Pressure Sodium Vapor	$27.68	$35.05	$39.67
40,000	155	Metal Halide	$30.72	$38.09	$42.71
34,000	180	Metal Halide (10)	$28.82	$36.19	NA
34,000	180	Metal Halide (10)	NA	$40.01	$40.81
110,000	217	Metal Halide (half night) (10)	$41.92	$49.29	$53.91
110,000	435	Metal Halide (10)	NA	$77.86	NA
110.000	435	Metal Halide (10)	$71.42	$78.79	$83.41
~~15,000~~1 6,500	47	LED 130 watts	$27.50	$34.87	$39.49
~~30,000~~3 3,500	48	LED 260 watts (half night) (10)	$57.84	$65.21	$69.83
~~30,000~~3 3,500	95	LED 260 watts	$59.52	$66.89	$71.51

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture repair and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) Closed to new installations on or after July 1, 2005.

(2) Closed to new installations on or after February 3, 1987.

(3) Closed to new installations on or after November 12, 1991.

(4) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(5) Closed to new installations.

(6) Light Emitting Diode (LED) luminaires are available for new installations, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires, and for customer requested replacements of existing sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(7) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 6 above beginning January 1, 2020 through December 31, 2023.

(8) "Existing Pole", "New Pole" and/or "New Pole Served Underground" rates are applicable for existing pole, new pole and/or new pole served underground installations on or after September 1, 2018. After this date, the "Existing Pole" rates are available only for luminaries attached to poles which are not installed solely to support the luminaire.

(9) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

UNDERGROUND CHARGES

(1) For non-floodlight underground facilities installed prior to September 1, 2018 or for floodlight underground facilities installed prior to November 12, 1991, the additional monthly charge for the underground conductor system:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

(2) For non-floodlight underground facilities installed on or after September 1, 2018 or for floodlight underground facilities installed on or after November 12, 1991, an underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, a charge of $0.07 for each increment of 10 feet, or less, over 150 feet will apply in addition to the $4.62 charge. This charge is also applicable to "New Pole Served Underground" rates over 150 feet per pole.

(3) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(4) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3
Leaf No. 131	EDIT-4

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) The installation of luminaires at the standard monthly rates above includes Company-designated standard wood poles.

(a) Wood poles or structures other than Company-designated standard wood poles, may be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(b) The Company's standard metal street lighting pole is closed as of January 1, 2010. An extra monthly charge of $5.41 per month, per pole applies to installations prior to January 1, 2010.

(c) The Company's standard metal mast-arm pole may be installed for an extra monthly charge of $5.41 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole, per month, per pole applies to installations prior to January 1, 2010. The standard metal mast-arm pole without a luminaire is closed as of January 1, 2010. A monthly charge of $7.12 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole applies to installations prior to January 1, 2010.

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

(d) For non-floodlight luminaires, brackets longer than 12 feet, but not longer than 20 feet can be installed for an additional monthly charge of $4.36.

(2) For non-floodlight luminaires installed outside municipal limits prior to January 1, 2010, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. For floodlight luminaires installed prior to November 12, 1991, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. A monthly charge of $7.37 per pole shall be made for such excess number of poles installed for service on or after January 1, 2010 for non-floodlight luminaries or on or after November 12, 1991 for floodlight luminaires in or outside municipal limits.

(3) When the installation requested requires a primary extension solely to serve the luminaires, an additional monthly charge of 1.0% of the estimated cost of the primary extension will be made. For poles to support non-floodlight luminaires installed outside municipal limits prior to January 1, 2010 and for poles to support floodlight luminaires, should the installation of secondary facilities include downguys or spanguys, a charge of $0.61 per month per guy shall be made.

(4) Standard wood poles installed prior to January 1, 2010 may be provided for $1.72 per pole per month plus $.61 per month per guy for downguys or spanguys, if needed, when provided to solely support traffic signals. Standard wood poles installed January 1, 2010 and after, may be provided for $7.37 per pole per month when provided solely to support traffic signals.

(5) Color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $0.71 per lamp per month. For luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new luminaires on or after October 1, 2007.

(6) For non-floodlight luminaires installed prior to January 1, 2010, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72. For floodlight luminaires installed prior to November 12, 1991, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(7) For non-floodlight LED and floodlight luminaires, the Customer may, at its option, prepay the initial capital cost of poles and underground wiring, in which case the monthly rate per luminaire shall be the Existing Pole Rate shown above.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires designated as standard by the Company and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated as decorative or non-standard by the Company, and for all standard luminaires mounted on supports other than standard wood poles, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

AVAILABILITY

Available for the purpose of lighting streets, highways, parks, and other public places for Municipal, County, State, and Federal Governments, at locations inside or outside municipal limits on the Company's distribution system. This Schedule is not available for service to non-governmental entities.

RATE

All-night street lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		High Pressure Sodium Vapor*			
9,500	47	Suburban (1)	$9.42	NA	NA
9,500	47	Urban	$10.79	NA	NA
13,000	56	Suburban (2) (in suitable mercury fixture)	$10.55	NA	NA
16,000	70	Urban	$11.77	NA	NA
27,500	104	Urban	$14.13	NA	NA
38,000	136	Urban (3) (in suitable mercury fixture)	$15.36	NA	NA
50,000	156	Urban	$17.52	NA	NA
140,000	391	Urban (installed on 55-foot wood pole)	$35.86	NA	NA
		Metal Halide*			
9,000	43	Urban	$17.16	NA	NA
40,000	155	Urban	$21.14	NA	NA
78,000	295	Area	$64.16	NA	NA
		Mercury Vapor*			
4,000	41	Suburban (1)	$6.21	NA	NA
7,500	75	Suburban (1)	$8.42	NA	NA
7,500	75	Urban (4)	$9.67	NA	NA
20,000	152	Urban (4)	$13.73	NA	NA
55,000	393	Urban (4)	$28.45	NA	NA
		Incandescent (5)			
	63	Suburban	$6.09	NA	NA
	63	Post Top	$2.29	NA	NA
		Light Emitting Diode (6) (7)			
3,700	10	Area 30 watts	$7.44	$14.81	$19.43
4,500	14	Area 40 watts	$7.77	$15.14	$19.76
5,500	18	Area 50 watts	$10.13	$17.50	$22.12
8,000	25	Area 70 watts	$10.37	$17.74	$22.36
15,500	40	Area 110 watts	$12.60	$19.97	$24.59
20,000	54	Area 150 watts	$14.07	$21.44	$26.06
30,500	79	Area 220 watts	$16.52	$23.89	$28.51
36,000	101	Area 280 watts	$18.88	$26.25	$30.87
44,500	151	Area 420 watts	$39.80	$47.17	$51.79
57,000	179	Area 530 watts	$56.96	$64.33	$68.95

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		Floodlight Service*			
16,000	70	High Pressure Sodium Vapor	$20.87	$28.24	$32.86
27,500	104	High Pressure Sodium Vapor	$24.60	$31.97	$36.59
50,000	156	High Pressure Sodium Vapor	$27.68	$35.05	$39.67
40,000	155	Metal Halide	$30.72	$38.09	$42.71
34,000	180	Metal Halide (10)	$28.82	$36.19	NA
34,000	180	Metal Halide (10)	NA	$40.01	$40.81
110,000	217	Metal Halide (half night) (10)	$41.92	$49.29	$53.91
110,000	435	Metal Halide (10)	NA	$77.86	NA
110.000	435	Metal Halide (10)	$71.42	$78.79	$83.41
16,500	47	LED 130 watts	$27.50	$34.87	$39.49
33,500	48	LED 260 watts (half night) (10)	$57.84	$65.21	$69.83
33,500	95	LED 260 watts	$59.52	$66.89	$71.51

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture repair and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) Closed to new installations on or after July 1, 2005.

(2) Closed to new installations on or after February 3, 1987.

(3) Closed to new installations on or after November 12, 1991.

(4) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(5) Closed to new installations.

(6) Light Emitting Diode (LED) luminaires are available for new installations, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires, and for customer requested replacements of existing sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(7) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 6 above beginning January 1, 2020 through December 31, 2023.

(8) "Existing Pole", "New Pole" and/or "New Pole Served Underground" rates are applicable for existing pole, new pole and/or new pole served underground installations on or after September 1, 2018. After this date, the "Existing Pole" rates are available only for luminaries attached to poles which are not installed solely to support the luminaire.

(9) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) For non-floodlight underground facilities installed prior to September 1, 2018 or for floodlight underground facilities installed prior to November 12, 1991, the additional monthly charge for the underground conductor system:

OFFICIAL COPY

Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

(2) For non-floodlight underground facilities installed on or after September 1, 2018 or for floodlight underground facilities installed on or after November 12, 1991, an underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, a charge of $0.07 for each increment of 10 feet, or less, over 150 feet will apply in addition to the $4.62 charge. This charge is also applicable to "New Pole Served Underground" rates over 150 feet per pole.

(3) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(4) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3
Leaf No. 131	EDIT-4

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) The installation of luminaires at the standard monthly rates above includes Company-designated standard wood poles.

(a) Wood poles or structures other than Company-designated standard wood poles, may be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(b) The Company's standard metal street lighting pole is closed as of January 1, 2010. An extra monthly charge of $5.41 per month, per pole applies to installations prior to January 1, 2010.

(c) The Company's standard metal mast-arm pole may be installed for an extra monthly charge of $5.41 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole, per month, per pole applies to installations prior to January 1, 2010. The standard metal mast-arm pole without a luminaire is closed as of January 1, 2010. A monthly charge of $7.12 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole applies to installations prior to January 1, 2010.

(d) For non-floodlight luminaires, brackets longer than 12 feet, but not longer than 20 feet can be installed for an additional monthly charge of $4.36.

(2) For non-floodlight luminaires installed outside municipal limits prior to January 1, 2010, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. For floodlight luminaires installed prior to November 12, 1991, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. A monthly charge of $7.37 per pole shall be made for such excess number of poles installed for service on or after January 1, 2010 for non-floodlight luminaries or on or after November 12, 1991 for floodlight luminaires in or outside municipal limits.

(3) When the installation requested requires a primary extension solely to serve the luminaires, an additional monthly charge of 1.0% of the estimated cost of the primary extension will be made. For poles to support non-floodlight luminaires installed outside municipal limits prior to January 1, 2010 and for poles to support floodlight luminaires, should the installation of secondary facilities include downguys or spanguys, a charge of $0.61 per month per guy shall be made.

(4) Standard wood poles installed prior to January 1, 2010 may be provided for $1.72 per pole per month plus $.61 per month per guy for downguys or spanguys, if needed, when provided to solely support traffic signals. Standard wood poles installed January 1, 2010 and after, may be provided for $7.37 per pole per month when provided solely to support traffic signals.

(5) Color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $0.71 per lamp per month. For luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new luminaires on or after October 1, 2007.

(6) For non-floodlight luminaires installed prior to January 1, 2010, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72. For floodlight luminaires installed prior to November 12, 1991, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(7) For non-floodlight LED and floodlight luminaires, the Customer may, at its option, prepay the initial capital cost of poles and underground wiring, in which case the monthly rate per luminaire shall be the Existing Pole Rate shown above.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires designated as standard by the Company and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated as decorative or non-standard by the Company, and for all standard luminaires mounted on supports other than standard wood poles, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

AVAILABILITY

Available for the purpose of lighting streets, highways, parks, and other public places for Municipal, County, State, and Federal Governments, at locations inside or outside municipal limits on the Company's distribution system. This Schedule is not available for service to non-governmental entities.

RATE

All-night street lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		High Pressure Sodium Vapor*			
9,500	47	Suburban (1)	$9.89	NA	NA
9,500	47	Urban	$11.32	NA	NA
13,000	56	Suburban (2) (in suitable mercury fixture)	$11.08	NA	NA
16,000	70	Urban	$12.35	NA	NA
27,500	104	Urban	$14.83	NA	NA
38,000	136	Urban (3) (in suitable mercury fixture)	$16.12	NA	NA
50,000	156	Urban	$18.39	NA	NA
140,000	391	Urban (installed on 55-foot wood pole)	$37.64	NA	NA
		Metal Halide*			
9,000	43	Urban	$18.01	NA	NA
40,000	155	Urban	$22.19	NA	NA
78,000	295	Area	$67.34	NA	NA
		Mercury Vapor*			
4,000	41	Suburban (1)	$6.52	NA	NA
7,500	75	Suburban (1)	$8.84	NA	NA
7,500	75	Urban (4)	$10.15	NA	NA
20,000	152	Urban (4)	$14.41	NA	NA
55,000	393	Urban (4)	$29.86	NA	NA
		Incandescent (5)			
	63	Suburban	$6.39	NA	NA
	63	Post Top	$2.40	NA	NA
		Light Emitting Diode (6) (7)			
3,700	~~11~~10	Area 30 watts	$9.86	$16.79	$21.41
4,500	14	Area 40 watts	$10.30	$17.23	$21.85
5,500	18	Area 50 watts	$10.64	$17.57	$22.19
8,000	25	Area 70 watts	$10.88	$17.81	$22.43
15,500	40	Area 110 watts	$13.23	$20.16	$24.78
20,000	54	Area 150 watts	$14.76	$21.69	$26.31
30,500	79	Area 220 watts	$17.34	$24.27	$28.89
36,000	101	Area 280 watts	$19.81	$26.74	$31.36
44,500	151	Area 420 watts	$41.77	$48.70	$53.32
57,000	179	Area 530 watts	$59.79	$66.72	$71.34

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		Floodlight Service*			
16,000	70	High Pressure Sodium Vapor	$21.91	$28.84	$33.46
27,500	104	High Pressure Sodium Vapor	$25.82	$32.75	$37.37
50,000	156	High Pressure Sodium Vapor	$29.05	$35.98	$40.60
40,000	155	Metal Halide	$32.24	$39.17	$43.79
34,000	180	Metal Halide (10)	$30.25	$37.18	NA
34,000	180	Metal Halide (10)	NA	$41.00	$41.80
110,000	217	Metal Halide (half night) (10)	$44.00	$50.93	$55.55
110,000	435	Metal Halide (10)	NA	$80.96	NA
110.000	435	Metal Halide (10)	$74.96	$81.89	$86.51
~~15,000~~1 6,500	47	LED 130 watts	$28.86	$35.79	$40.41
~~30,000~~3 3,500	48	LED 260 watts (half night) (10)	$60.71	$67.64	$72.26
~~30,000~~3 3,500	95	LED 260 watts	$62.47	$69.40	$74.02

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture repair and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) Closed to new installations on or after July 1, 2005.

(2) Closed to new installations on or after February 3, 1987.

(3) Closed to new installations on or after November 12, 1991.

(4) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(5) Closed to new installations.

(6) Light Emitting Diode (LED) luminaires are available for new installations, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires, and for customer requested replacements of existing sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(7) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 6 above beginning January 1, 2020 through December 31, 2023.

(8) "Existing Pole", "New Pole" and/or "New Pole Served Underground" rates are applicable for existing pole, new pole and/or new pole served underground installations on or after September 1, 2018. After this date, the "Existing Pole" rates are available only for luminaries attached to poles which are not installed solely to support the luminaire.

(9) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

UNDERGROUND CHARGES

(1) For non-floodlight underground facilities installed prior to September 1, 2018 or for floodlight underground facilities installed prior to November 12, 1991, the additional monthly charge for the underground conductor system:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

(2) For non-floodlight underground facilities installed on or after September 1, 2018 or for floodlight underground facilities installed on or after November 12, 1991, an underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, a charge of $0.07 for each increment of 10 feet, or less, over 150 feet will apply in addition to the $4.62 charge. This charge is also applicable to "New Pole Served Underground" rates over 150 feet per pole.

(3) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(4) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) The installation of luminaires at the standard monthly rates above includes Company-designated standard wood poles.

(a) Wood poles or structures other than Company-designated standard wood poles, may be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(b) The Company's standard metal street lighting pole is closed as of January 1, 2010. An extra monthly charge of $5.41 per month, per pole applies to installations prior to January 1, 2010.

(c) The Company's standard metal mast-arm pole may be installed for an extra monthly charge of $5.41 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole, per month, per pole applies to installations prior to January 1, 2010. The standard metal mast-arm pole without a luminaire is closed as of January 1, 2010. A monthly charge of $7.12 plus 1.0% of the estimated installed cost

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

difference between the requested pole and the Company's standard metal street lighting pole applies to installations prior to January 1, 2010.

(d) For non-floodlight luminaires, brackets longer than 12 feet, but not longer than 20 feet can be installed for an additional monthly charge of $4.36.

(2) For non-floodlight luminaires installed outside municipal limits prior to January 1, 2010, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. For floodlight luminaires installed prior to November 12, 1991, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. A monthly charge of $6.93 per pole shall be made for such excess number of poles installed for service on or after January 1, 2010 for non-floodlight luminaries or on or after November 12, 1991 for floodlight luminaires in or outside municipal limits.

(3) When the installation requested requires a primary extension solely to serve the luminaires, an additional monthly charge of 1.0% of the estimated cost of the primary extension will be made. For poles to support non-floodlight luminaires installed outside municipal limits prior to January 1, 2010 and for poles to support floodlight luminaires, should the installation of secondary facilities include downguys or spanguys, a charge of $0.61 per month per guy shall be made.

(4) Standard wood poles installed prior to January 1, 2010 may be provided for $1.72 per pole per month plus $.61 per month per guy for downguys or spanguys, if needed, when provided to solely support traffic signals. Standard wood poles installed January 1, 2010 and after, may be provided for $6.93 per pole per month when provided solely to support traffic signals.

(5) Color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $0.71 per lamp per month. For luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new luminaires on or after October 1, 2007.

(6) For non-floodlight luminaires installed prior to January 1, 2010, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72. For floodlight luminaires installed prior to November 12, 1991, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(7) For non-floodlight LED and floodlight luminaires, the Customer may, at its option, prepay the initial capital cost of poles and underground wiring, in which case the monthly rate per luminaire shall be the Existing Pole Rate shown above.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires designated as standard by the Company and bracket-mounted on standard poles.

OFFICIAL COPY

Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

(b) Ten (10) years for all luminaires designated as decorative or non-standard by the Company, and for all standard luminaires mounted on supports other than standard wood poles, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

AVAILABILITY

Available for the purpose of lighting streets, highways, parks, and other public places for Municipal, County, State, and Federal Governments, at locations inside or outside municipal limits on the Company's distribution system. This Schedule is not available for service to non-governmental entities.

RATE

All-night street lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		High Pressure Sodium Vapor*			
9,500	47	Suburban (1)	$9.89	NA	NA
9,500	47	Urban	$11.32	NA	NA
13,000	56	Suburban (2) (in suitable mercury fixture)	$11.08	NA	NA
16,000	70	Urban	$12.35	NA	NA
27,500	104	Urban	$14.83	NA	NA
38,000	136	Urban (3) (in suitable mercury fixture)	$16.12	NA	NA
50,000	156	Urban	$18.39	NA	NA
140,000	391	Urban (installed on 55-foot wood pole)	$37.64	NA	NA
		Metal Halide*			
9,000	43	Urban	$18.01	NA	NA
40,000	155	Urban	$22.19	NA	NA
78,000	295	Area	$67.34	NA	NA
		Mercury Vapor*			
4,000	41	Suburban (1)	$6.52	NA	NA
7,500	75	Suburban (1)	$8.84	NA	NA
7,500	75	Urban (4)	$10.15	NA	NA
20,000	152	Urban (4)	$14.41	NA	NA
55,000	393	Urban (4)	$29.86	NA	NA
		Incandescent (5)			
	63	Suburban	$6.39	NA	NA
	63	Post Top	$2.40	NA	NA
		Light Emitting Diode (6) (7)			
3,700	10	Area 30 watts	$9.86	$16.79	$21.41
4,500	14	Area 40 watts	$10.30	$17.23	$21.85
5,500	18	Area 50 watts	$10.64	$17.57	$22.19
8,000	25	Area 70 watts	$10.88	$17.81	$22.43
15,500	40	Area 110 watts	$13.23	$20.16	$24.78
20,000	54	Area 150 watts	$14.76	$21.69	$26.31
30,500	79	Area 220 watts	$17.34	$24.27	$28.89
36,000	101	Area 280 watts	$19.81	$26.74	$31.36
44,500	151	Area 420 watts	$41.77	$48.70	$53.32
57,000	179	Area 530 watts	$59.79	$66.72	$71.34

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		Floodlight Service*			
16,000	70	High Pressure Sodium Vapor	$21.91	$28.84	$33.46
27,500	104	High Pressure Sodium Vapor	$25.82	$32.75	$37.37
50,000	156	High Pressure Sodium Vapor	$29.05	$35.98	$40.60
40,000	155	Metal Halide	$32.24	$39.17	$43.79
34,000	180	Metal Halide (10)	$30.25	$37.18	NA
34,000	180	Metal Halide (10)	NA	$41.00	$41.80
110,000	217	Metal Halide (half night) (10)	$44.00	$50.93	$55.55
110,000	435	Metal Halide (10)	NA	$80.96	NA
110.000	435	Metal Halide (10)	$74.96	$81.89	$86.51
16,500	47	LED 130 watts	$28.86	$35.79	$40.41
33,500	48	LED 260 watts (half night) (10)	$60.71	$67.64	$72.26
33,500	95	LED 260 watts	$62.47	$69.40	$74.02

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture repair and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) Closed to new installations on or after July 1, 2005.

(2) Closed to new installations on or after February 3, 1987.

(3) Closed to new installations on or after November 12, 1991.

(4) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(5) Closed to new installations.

(6) Light Emitting Diode (LED) luminaires are available for new installations, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires, and for customer requested replacements of existing sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(7) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 6 above beginning January 1, 2020 through December 31, 2023.

(8) "Existing Pole", "New Pole" and/or "New Pole Served Underground" rates are applicable for existing pole, new pole and/or new pole served underground installations on or after September 1, 2018. After this date, the "Existing Pole" rates are available only for luminaries attached to poles which are not installed solely to support the luminaire.

(9) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) For non-floodlight underground facilities installed prior to September 1, 2018 or for floodlight underground facilities installed prior to November 12, 1991, the additional monthly charge for the underground conductor system:

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

(2) For non-floodlight underground facilities installed on or after September 1, 2018 or for floodlight underground facilities installed on or after November 12, 1991, an underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, a charge of $0.07 for each increment of 10 feet, or less, over 150 feet will apply in addition to the $4.62 charge. This charge is also applicable to "New Pole Served Underground" rates over 150 feet per pole.

(3) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(4) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) The installation of luminaires at the standard monthly rates above includes Company-designated standard wood poles.

(a) Wood poles or structures other than Company-designated standard wood poles, may be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(b) The Company's standard metal street lighting pole is closed as of January 1, 2010. An extra monthly charge of $5.41 per month, per pole applies to installations prior to January 1, 2010.

(c) The Company's standard metal mast-arm pole may be installed for an extra monthly charge of $5.41 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole, per month, per pole applies to installations prior to January 1, 2010. The standard metal mast-arm pole without a luminaire is closed as of January 1, 2010. A monthly charge of $7.12 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole applies to installations prior to January 1, 2010.

(d) For non-floodlight luminaires, brackets longer than 12 feet, but not longer than 20 feet can be installed for an additional monthly charge of $4.36.

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

(2) For non-floodlight luminaires installed outside municipal limits prior to January 1, 2010, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. For floodlight luminaires installed prior to November 12, 1991, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. A monthly charge of $6.93 per pole shall be made for such excess number of poles installed for service on or after January 1, 2010 for non-floodlight luminaries or on or after November 12, 1991 for floodlight luminaires in or outside municipal limits.

(3) When the installation requested requires a primary extension solely to serve the luminaires, an additional monthly charge of 1.0% of the estimated cost of the primary extension will be made. For poles to support non-floodlight luminaires installed outside municipal limits prior to January 1, 2010 and for poles to support floodlight luminaires, should the installation of secondary facilities include downguys or spanguys, a charge of $0.61 per month per guy shall be made.

(4) Standard wood poles installed prior to January 1, 2010 may be provided for $1.72 per pole per month plus $.61 per month per guy for downguys or spanguys, if needed, when provided to solely support traffic signals. Standard wood poles installed January 1, 2010 and after, may be provided for $6.93 per pole per month when provided solely to support traffic signals.

(5) Color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $0.71 per lamp per month. For luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new luminaires on or after October 1, 2007.

(6) For non-floodlight luminaires installed prior to January 1, 2010, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72. For floodlight luminaires installed prior to November 12, 1991, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(7) For non-floodlight LED and floodlight luminaires, the Customer may, at its option, prepay the initial capital cost of poles and underground wiring, in which case the monthly rate per luminaire shall be the Existing Pole Rate shown above.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires designated as standard by the Company and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated as decorative or non-standard by the Company, and for all standard luminaires mounted on supports other than standard wood poles, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

AVAILABILITY

Available for the purpose of lighting streets, highways, parks, and other public places for Municipal, County, State, and Federal Governments, at locations inside or outside municipal limits on the Company's distribution system. This Schedule is not available for service to non-governmental entities.

RATE

All-night street lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		High Pressure Sodium Vapor*			
9,500	47	Suburban (1)	$10.32	NA	NA
9,500	47	Urban	$11.81	NA	NA
13,000	56	Suburban (2) (in suitable mercury fixture)	$11.56	NA	NA
16,000	70	Urban	$12.89	NA	NA
27,500	104	Urban	$15.47	NA	NA
38,000	136	Urban (3) (in suitable mercury fixture)	$16.82	NA	NA
50,000	156	Urban	$19.19	NA	NA
140,000	391	Urban (installed on 55-foot wood pole)	$39.27	NA	NA
		Metal Halide*			
9,000	43	Urban	$18.80	NA	NA
40,000	155	Urban	$23.15	NA	NA
78,000	295	Area	$70.26	NA	NA
		Mercury Vapor*			
4,000	41	Suburban (1)	$6.80	NA	NA
7,500	75	Suburban (1)	$9.22	NA	NA
7,500	75	Urban (4)	$10.59	NA	NA
20,000	152	Urban (4)	$15.03	NA	NA
55,000	393	Urban (4)	$31.15	NA	NA
		Incandescent (5)			
	63	Suburban	$6.67	NA	NA
	63	Post Top	$2.50	NA	NA
		Light Emitting Diode (6) (7)			
3,700	~~11~~10	Area 30 watts	$10.29	$17.44	$22.06
4,500	14	Area 40 watts	$10.75	$17.90	$22.52
5,500	18	Area 50 watts	$11.10	$18.25	$22.87
8,000	25	Area 70 watts	$11.35	$18.50	$23.12
15,500	40	Area 110 watts	$13.80	$20.95	$25.57
20,000	54	Area 150 watts	$15.40	$22.55	$27.17
30,500	79	Area 220 watts	$18.09	$25.24	$29.86
36,000	101	Area 280 watts	$20.67	$27.82	$32.44
44,500	151	Area 420 watts	$43.58	$50.73	$55.35
57,000	179	Area 530 watts	$62.38	$69.53	$74.15

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		Floodlight Service*			
16,000	70	High Pressure Sodium Vapor	$22.86	$30.01	$34.63
27,500	104	High Pressure Sodium Vapor	$26.94	$34.09	$38.71
50,000	156	High Pressure Sodium Vapor	$30.31	$37.46	$42.08
40,000	155	Metal Halide	$33.64	$40.79	$45.41
34,000	180	Metal Halide (10)	$31.56	$38.71	NA
34,000	180	Metal Halide (10)	NA	$42.53	$43.33
110,000	217	Metal Halide (half night) (10)	$45.91	$53.06	$57.68
110,000	435	Metal Halide (10)	NA	$84.43	NA
110.000	435	Metal Halide (10)	$78.21	$85.36	$89.98
~~15,000~~1 6,500	47	LED 130 watts	$30.12	$37.27	$41.89
~~30,000~~3 3,500	48	LED 260 watts (half night) (10)	$63.34	$70.49	$75.11
~~30,000~~3 3,500	95	LED 260 watts	$65.18	$72.33	$76.95

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture repair and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) Closed to new installations on or after July 1, 2005.

(2) Closed to new installations on or after February 3, 1987.

(3) Closed to new installations on or after November 12, 1991.

(4) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(5) Closed to new installations.

(6) Light Emitting Diode (LED) luminaires are available for new installations, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires, and for customer requested replacements of existing sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(7) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 6 above beginning January 1, 2020 through December 31, 2023.

(8) "Existing Pole", "New Pole" and/or "New Pole Served Underground" rates are applicable for existing pole, new pole and/or new pole served underground installations on or after September 1, 2018. After this date, the "Existing Pole" rates are available only for luminaries attached to poles which are not installed solely to support the luminaire.

(9) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

UNDERGROUND CHARGES

(1) For non-floodlight underground facilities installed prior to September 1, 2018 or for floodlight underground facilities installed prior to November 12, 1991, the additional monthly charge for the underground conductor system:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

(2) For non-floodlight underground facilities installed on or after September 1, 2018 or for floodlight underground facilities installed on or after November 12, 1991, an underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, a charge of $0.07 for each increment of 10 feet, or less, over 150 feet will apply in addition to the $4.62 charge. This charge is also applicable to "New Pole Served Underground" rates over 150 feet per pole.

(3) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(4) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) The installation of luminaires at the standard monthly rates above includes Company-designated standard wood poles.

(a) Wood poles or structures other than Company-designated standard wood poles, may be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(b) The Company's standard metal street lighting pole is closed as of January 1, 2010. An extra monthly charge of $5.41 per month, per pole applies to installations prior to January 1, 2010.

(c) The Company's standard metal mast-arm pole may be installed for an extra monthly charge of $5.41 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole, per month, per pole applies to installations prior to January 1, 2010. The standard metal mast-arm pole without a luminaire is closed as of January 1, 2010. A monthly charge of $7.12 plus 1.0% of the estimated installed cost

OFFICIAL COPY

Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

difference between the requested pole and the Company's standard metal street lighting pole applies to installations prior to January 1, 2010.

(d) For non-floodlight luminaires, brackets longer than 12 feet, but not longer than 20 feet can be installed for an additional monthly charge of $4.36.

(2) For non-floodlight luminaires installed outside municipal limits prior to January 1, 2010, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. For floodlight luminaires installed prior to November 12, 1991, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. A monthly charge of $7.15 per pole shall be made for such excess number of poles installed for service on or after January 1, 2010 for non-floodlight luminaries or on or after November 12, 1991 for floodlight luminaires in or outside municipal limits.

(3) When the installation requested requires a primary extension solely to serve the luminaires, an additional monthly charge of 1.0% of the estimated cost of the primary extension will be made. For poles to support non-floodlight luminaires installed outside municipal limits prior to January 1, 2010 and for poles to support floodlight luminaires, should the installation of secondary facilities include downguys or spanguys, a charge of $0.61 per month per guy shall be made.

(4) Standard wood poles installed prior to January 1, 2010 may be provided for $1.72 per pole per month plus $.61 per month per guy for downguys or spanguys, if needed, when provided to solely support traffic signals. Standard wood poles installed January 1, 2010 and after, may be provided for $7.15 per pole per month when provided solely to support traffic signals.

(5) Color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $0.71 per lamp per month. For luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new luminaires on or after October 1, 2007.

(6) For non-floodlight luminaires installed prior to January 1, 2010, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72. For floodlight luminaires installed prior to November 12, 1991, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(7) For non-floodlight LED and floodlight luminaires, the Customer may, at its option, prepay the initial capital cost of poles and underground wiring, in which case the monthly rate per luminaire shall be the Existing Pole Rate shown above.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires designated as standard by the Company and bracket-mounted on standard poles.

OFFICIAL COPY

Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

(b) Ten (10) years for all luminaires designated as decorative or non-standard by the Company, and for all standard luminaires mounted on supports other than standard wood poles, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

AVAILABILITY

Available for the purpose of lighting streets, highways, parks, and other public places for Municipal, County, State, and Federal Governments, at locations inside or outside municipal limits on the Company's distribution system. This Schedule is not available for service to non-governmental entities.

RATE

All-night street lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		High Pressure Sodium Vapor*			
9,500	47	Suburban (1)	$10.32	NA	NA
9,500	47	Urban	$11.81	NA	NA
13,000	56	Suburban (2) (in suitable mercury fixture)	$11.56	NA	NA
16,000	70	Urban	$12.89	NA	NA
27,500	104	Urban	$15.47	NA	NA
38,000	136	Urban (3) (in suitable mercury fixture)	$16.82	NA	NA
50,000	156	Urban	$19.19	NA	NA
140,000	391	Urban (installed on 55-foot wood pole)	$39.27	NA	NA
		Metal Halide*			
9,000	43	Urban	$18.80	NA	NA
40,000	155	Urban	$23.15	NA	NA
78,000	295	Area	$70.26	NA	NA
		Mercury Vapor*			
4,000	41	Suburban (1)	$6.80	NA	NA
7,500	75	Suburban (1)	$9.22	NA	NA
7,500	75	Urban (4)	$10.59	NA	NA
20,000	152	Urban (4)	$15.03	NA	NA
55,000	393	Urban (4)	$31.15	NA	NA
		Incandescent (5)			
	63	Suburban	$6.67	NA	NA
	63	Post Top	$2.50	NA	NA
		Light Emitting Diode (6) (7)			
3,700	10	Area 30 watts	$10.29	$17.44	$22.06
4,500	14	Area 40 watts	$10.75	$17.90	$22.52
5,500	18	Area 50 watts	$11.10	$18.25	$22.87
8,000	25	Area 70 watts	$11.35	$18.50	$23.12
15,500	40	Area 110 watts	$13.80	$20.95	$25.57
20,000	54	Area 150 watts	$15.40	$22.55	$27.17
30,500	79	Area 220 watts	$18.09	$25.24	$29.86
36,000	101	Area 280 watts	$20.67	$27.82	$32.44
44,500	151	Area 420 watts	$43.58	$50.73	$55.35
57,000	179	Area 530 watts	$62.38	$69.53	$74.15

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		Floodlight Service*			
16,000	70	High Pressure Sodium Vapor	$22.86	$30.01	$34.63
27,500	104	High Pressure Sodium Vapor	$26.94	$34.09	$38.71
50,000	156	High Pressure Sodium Vapor	$30.31	$37.46	$42.08
40,000	155	Metal Halide	$33.64	$40.79	$45.41
34,000	180	Metal Halide (10)	$31.56	$38.71	NA
34,000	180	Metal Halide (10)	NA	$42.53	$43.33
110,000	217	Metal Halide (half night) (10)	$45.91	$53.06	$57.68
110,000	435	Metal Halide (10)	NA	$84.43	NA
110.000	435	Metal Halide (10)	$78.21	$85.36	$89.98
16,500	47	LED 130 watts	$30.12	$37.27	$41.89
33,500	48	LED 260 watts (half night) (10)	$63.34	$70.49	$75.11
33,500	95	LED 260 watts	$65.18	$72.33	$76.95

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture repair and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) Closed to new installations on or after July 1, 2005.

(2) Closed to new installations on or after February 3, 1987.

(3) Closed to new installations on or after November 12, 1991.

(4) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(5) Closed to new installations.

(6) Light Emitting Diode (LED) luminaires are available for new installations, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires, and for customer requested replacements of existing sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(7) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 6 above beginning January 1, 2020 through December 31, 2023.

(8) "Existing Pole", "New Pole" and/or "New Pole Served Underground" rates are applicable for existing pole, new pole and/or new pole served underground installations on or after September 1, 2018. After this date, the "Existing Pole" rates are available only for luminaries attached to poles which are not installed solely to support the luminaire.

(9) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) For non-floodlight underground facilities installed prior to September 1, 2018 or for floodlight underground facilities installed prior to November 12, 1991, the additional monthly charge for the underground conductor system:

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

(2) For non-floodlight underground facilities installed on or after September 1, 2018 or for floodlight underground facilities installed on or after November 12, 1991, an underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, a charge of $0.07 for each increment of 10 feet, or less, over 150 feet will apply in addition to the $4.62 charge. This charge is also applicable to "New Pole Served Underground" rates over 150 feet per pole.

(3) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(4) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) The installation of luminaires at the standard monthly rates above includes Company-designated standard wood poles.

(a) Wood poles or structures other than Company-designated standard wood poles, may be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(b) The Company's standard metal street lighting pole is closed as of January 1, 2010. An extra monthly charge of $5.41 per month, per pole applies to installations prior to January 1, 2010.

(c) The Company's standard metal mast-arm pole may be installed for an extra monthly charge of $5.41 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole, per month, per pole applies to installations prior to January 1, 2010. The standard metal mast-arm pole without a luminaire is closed as of January 1, 2010. A monthly charge of $7.12 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole applies to installations prior to January 1, 2010.

(d) For non-floodlight luminaires, brackets longer than 12 feet, but not longer than 20 feet can be installed for an additional monthly charge of $4.36.

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

(2) For non-floodlight luminaires installed outside municipal limits prior to January 1, 2010, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. For floodlight luminaires installed prior to November 12, 1991, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. A monthly charge of $7.15 per pole shall be made for such excess number of poles installed for service on or after January 1, 2010 for non-floodlight luminaries or on or after November 12, 1991 for floodlight luminaires in or outside municipal limits.

(3) When the installation requested requires a primary extension solely to serve the luminaires, an additional monthly charge of 1.0% of the estimated cost of the primary extension will be made. For poles to support non-floodlight luminaires installed outside municipal limits prior to January 1, 2010 and for poles to support floodlight luminaires, should the installation of secondary facilities include downguys or spanguys, a charge of $0.61 per month per guy shall be made.

(4) Standard wood poles installed prior to January 1, 2010 may be provided for $1.72 per pole per month plus $.61 per month per guy for downguys or spanguys, if needed, when provided to solely support traffic signals. Standard wood poles installed January 1, 2010 and after, may be provided for $7.15 per pole per month when provided solely to support traffic signals.

(5) Color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $0.71 per lamp per month. For luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new luminaires on or after October 1, 2007.

(6) For non-floodlight luminaires installed prior to January 1, 2010, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72. For floodlight luminaires installed prior to November 12, 1991, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(7) For non-floodlight LED and floodlight luminaires, the Customer may, at its option, prepay the initial capital cost of poles and underground wiring, in which case the monthly rate per luminaire shall be the Existing Pole Rate shown above.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires designated as standard by the Company and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated as decorative or non-standard by the Company, and for all standard luminaires mounted on supports other than standard wood poles, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

AVAILABILITY

Available for the purpose of lighting streets, highways, parks, and other public places for Municipal, County, State, and Federal Governments, at locations inside or outside municipal limits on the Company's distribution system. This Schedule is not available for service to non-governmental entities.

RATE

All-night street lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		High Pressure Sodium Vapor*			
9,500	47	Suburban (1)	$10.57	NA	NA
9,500	47	Urban	$12.10	NA	NA
13,000	56	Suburban (2) (in suitable mercury fixture)	$11.84	NA	NA
16,000	70	Urban	$13.19	NA	NA
27,500	104	Urban	$15.84	NA	NA
38,000	136	Urban (3) (in suitable mercury fixture)	$17.22	NA	NA
50,000	156	Urban	$19.65	NA	NA
140,000	391	Urban (installed on 55-foot wood pole)	$40.21	NA	NA
		Metal Halide*			
9,000	43	Urban	$19.25	NA	NA
40,000	155	Urban	$23.71	NA	NA
78,000	295	Area	$71.94	NA	NA
		Mercury Vapor*			
4,000	41	Suburban (1)	$6.96	NA	NA
7,500	75	Suburban (1)	$9.44	NA	NA
7,500	75	Urban (4)	$10.85	NA	NA
20,000	152	Urban (4)	$15.39	NA	NA
55,000	393	Urban (4)	$31.90	NA	NA
		Incandescent (5)			
	63	Suburban	$6.83	NA	NA
	63	Post Top	$2.56	NA	NA
		Light Emitting Diode (6) (7)			
3,700	~~11~~10	Area 30 watts	$10.54	$17.91	$22.53
4,500	14	Area 40 watts	$11.01	$18.38	$23.00
5,500	18	Area 50 watts	$11.36	$18.73	$23.35
8,000	25	Area 70 watts	$11.62	$18.99	$23.61
15,500	40	Area 110 watts	$14.13	$21.50	$26.12
20,000	54	Area 150 watts	$15.77	$23.14	$27.76
30,500	79	Area 220 watts	$18.53	$25.90	$30.52
36,000	101	Area 280 watts	$21.17	$28.54	$33.16
44,500	151	Area 420 watts	$44.63	$52.00	$56.62
57,000	179	Area 530 watts	$63.87	$71.24	$75.86

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		Floodlight Service*			
16,000	70	High Pressure Sodium Vapor	$23.41	$30.78	$35.40
27,500	104	High Pressure Sodium Vapor	$27.59	$34.96	$39.58
50,000	156	High Pressure Sodium Vapor	$31.03	$38.40	$43.02
40,000	155	Metal Halide	$34.45	$41.82	$46.44
34,000	180	Metal Halide (10)	$32.32	$39.69	NA
34,000	180	Metal Halide (10)	NA	$43.51	$44.31
110,000	217	Metal Halide (half night) (10)	$47.01	$54.38	$59.00
110,000	435	Metal Halide (10)	NA	$86.52	NA
110.000	435	Metal Halide (10)	$80.08	$87.45	$92.07
~~15,000~~1 6,500	47	LED 130 watts	$30.84	$38.21	$42.83
~~30,000~~3 3,500	48	LED 260 watts (half night) (10)	$64.86	$72.23	$76.85
~~30,000~~3 3,500	95	LED 260 watts	$66.75	$74.12	$78.74

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture repair and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) Closed to new installations on or after July 1, 2005.

(2) Closed to new installations on or after February 3, 1987.

(3) Closed to new installations on or after November 12, 1991.

(4) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(5) Closed to new installations.

(6) Light Emitting Diode (LED) luminaires are available for new installations, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires, and for customer requested replacements of existing sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(7) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 6 above beginning January 1, 2020 through December 31, 2023.

(8) "Existing Pole", "New Pole" and/or "New Pole Served Underground" rates are applicable for existing pole, new pole and/or new pole served underground installations on or after September 1, 2018. After this date, the "Existing Pole" rates are available only for luminaries attached to poles which are not installed solely to support the luminaire.

(9) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

UNDERGROUND CHARGES

(1) For non-floodlight underground facilities installed prior to September 1, 2018 or for floodlight underground facilities installed prior to November 12, 1991, the additional monthly charge for the underground conductor system:

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

(2) For non-floodlight underground facilities installed on or after September 1, 2018 or for floodlight underground facilities installed on or after November 12, 1991, an underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, a charge of $0.07 for each increment of 10 feet, or less, over 150 feet will apply in addition to the $4.62 charge. This charge is also applicable to "New Pole Served Underground" rates over 150 feet per pole.

(3) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(4) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) The installation of luminaires at the standard monthly rates above includes Company-designated standard wood poles.

(a) Wood poles or structures other than Company-designated standard wood poles, may be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(b) The Company's standard metal street lighting pole is closed as of January 1, 2010. An extra monthly charge of $5.41 per month, per pole applies to installations prior to January 1, 2010.

(c) The Company's standard metal mast-arm pole may be installed for an extra monthly charge of $5.41 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole, per month, per pole applies to installations prior to January 1, 2010. The standard metal mast-arm pole without a luminaire is closed as of January 1, 2010. A monthly charge of $7.12 plus 1.0% of the estimated installed cost

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

difference between the requested pole and the Company's standard metal street lighting pole applies to installations prior to January 1, 2010.

(d) For non-floodlight luminaires, brackets longer than 12 feet, but not longer than 20 feet can be installed for an additional monthly charge of $4.36.

(2) For non-floodlight luminaires installed outside municipal limits prior to January 1, 2010, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. For floodlight luminaires installed prior to November 12, 1991, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. A monthly charge of $7.37 per pole shall be made for such excess number of poles installed for service on or after January 1, 2010 for non-floodlight luminaries or on or after November 12, 1991 for floodlight luminaires in or outside municipal limits.

(3) When the installation requested requires a primary extension solely to serve the luminaires, an additional monthly charge of 1.0% of the estimated cost of the primary extension will be made. For poles to support non-floodlight luminaires installed outside municipal limits prior to January 1, 2010 and for poles to support floodlight luminaires, should the installation of secondary facilities include downguys or spanguys, a charge of $0.61 per month per guy shall be made.

(4) Standard wood poles installed prior to January 1, 2010 may be provided for $1.72 per pole per month plus $.61 per month per guy for downguys or spanguys, if needed, when provided to solely support traffic signals. Standard wood poles installed January 1, 2010 and after, may be provided for $7.37 per pole per month when provided solely to support traffic signals.

(5) Color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $0.71 per lamp per month. For luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new luminaires on or after October 1, 2007.

(6) For non-floodlight luminaires installed prior to January 1, 2010, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72. For floodlight luminaires installed prior to November 12, 1991, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(7) For non-floodlight LED and floodlight luminaires, the Customer may, at its option, prepay the initial capital cost of poles and underground wiring, in which case the monthly rate per luminaire shall be the Existing Pole Rate shown above.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires designated as standard by the Company and bracket-mounted on standard poles.

OFFICIAL COPY

Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

(b) Ten (10) years for all luminaires designated as decorative or non-standard by the Company, and for all standard luminaires mounted on supports other than standard wood poles, and for primary extensions solely serving the luminaires.

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

AVAILABILITY

Available for the purpose of lighting streets, highways, parks, and other public places for Municipal, County, State, and Federal Governments, at locations inside or outside municipal limits on the Company's distribution system. This Schedule is not available for service to non-governmental entities.

RATE

All-night street lighting service using Company standard equipment mounted on standard poles:

Lamp Rating			Per Month Per Luminaire		
Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		High Pressure Sodium Vapor*			
9,500	47	Suburban (1)	$10.57	NA	NA
9,500	47	Urban	$12.10	NA	NA
13,000	56	Suburban (2) (in suitable mercury fixture)	$11.84	NA	NA
16,000	70	Urban	$13.19	NA	NA
27,500	104	Urban	$15.84	NA	NA
38,000	136	Urban (3) (in suitable mercury fixture)	$17.22	NA	NA
50,000	156	Urban	$19.65	NA	NA
140,000	391	Urban (installed on 55-foot wood pole)	$40.21	NA	NA
		Metal Halide*			
9,000	43	Urban	$19.25	NA	NA
40,000	155	Urban	$23.71	NA	NA
78,000	295	Area	$71.94	NA	NA
		Mercury Vapor*			
4,000	41	Suburban (1)	$6.96	NA	NA
7,500	75	Suburban (1)	$9.44	NA	NA
7,500	75	Urban (4)	$10.85	NA	NA
20,000	152	Urban (4)	$15.39	NA	NA
55,000	393	Urban (4)	$31.90	NA	NA
		Incandescent (5)			
	63	Suburban	$6.83	NA	NA
	63	Post Top	$2.56	NA	NA
		Light Emitting Diode (6) (7)			
3,700	10	Area 30 watts	$10.54	$17.91	$22.53
4,500	14	Area 40 watts	$11.01	$18.38	$23.00
5,500	18	Area 50 watts	$11.36	$18.73	$23.35
8,000	25	Area 70 watts	$11.62	$18.99	$23.61
15,500	40	Area 110 watts	$14.13	$21.50	$26.12
20,000	54	Area 150 watts	$15.77	$23.14	$27.76
30,500	79	Area 220 watts	$18.53	$25.90	$30.52
36,000	101	Area 280 watts	$21.17	$28.54	$33.16
44,500	151	Area 420 watts	$44.63	$52.00	$56.62
57,000	179	Area 530 watts	$63.87	$71.24	$75.86

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
(North Carolina Only)

NC Fifty-Ninth Revised Leaf No. 34
Superseding NC Fifty-Eighth Revised Leaf No. 34

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Lumens	kWh Per Month	Style	Existing Pole (8)	New Pole (8)	New Pole Served Underground (8)
		Floodlight Service*			
16,000	70	High Pressure Sodium Vapor	$23.41	$30.78	$35.40
27,500	104	High Pressure Sodium Vapor	$27.59	$34.96	$39.58
50,000	156	High Pressure Sodium Vapor	$31.03	$38.40	$43.02
40,000	155	Metal Halide	$34.45	$41.82	$46.44
34,000	180	Metal Halide (10)	$32.32	$39.69	NA
34,000	180	Metal Halide (10)	NA	$43.51	$44.31
110,000	217	Metal Halide (half night) (10)	$47.01	$54.38	$59.00
110,000	435	Metal Halide (10)	NA	$86.52	NA
110.000	435	Metal Halide (10)	$80.08	$87.45	$92.07
16,500	47	LED 130 watts	$30.84	$38.21	$42.83
33,500	48	LED 260 watts (half night) (10)	$64.86	$72.23	$76.85
33,500	95	LED 260 watts	$66.75	$74.12	$78.74

* High pressure sodium vapor, metal halide and mercury vapor luminaires are no longer available for new installations. Fixture repair and fixture replacement are covered in the Outdoor Lighting Service Regulations.

(1) Closed to new installations on or after July 1, 2005.

(2) Closed to new installations on or after February 3, 1987.

(3) Closed to new installations on or after November 12, 1991.

(4) Closed to new contracts on or after October 1, 2007 for luminaries installed before January 1, 2008.

(5) Closed to new installations.

(6) Light Emitting Diode (LED) luminaires are available for new installations, as replacements for failed high pressure sodium vapor, metal halide and mercury vapor luminaires, and for customer requested replacements of existing sodium vapor, metal halide and mercury vapor luminaires, provided the fixture will accommodate an LED luminaire as a replacement.

(7) The Company will replace standard mercury vapor luminaires with LED luminaires not otherwise replaced under Note 6 above beginning January 1, 2020 through December 31, 2023.

(8) "Existing Pole", "New Pole" and/or "New Pole Served Underground" rates are applicable for existing pole, new pole and/or new pole served underground installations on or after September 1, 2018. After this date, the "Existing Pole" rates are available only for luminaries attached to poles which are not installed solely to support the luminaire.

(9) The "Existing Pole" rate is applicable to installations, including pole, installed prior to November 12, 1991. After this date, the "Existing Pole" rate is available only for luminaires attached to poles which are not installed solely to support the luminaire.

(10) Not available to new locations unless installed prior to January 1, 2008 in the former Duke Energy Carolinas Nantahala Area in Cherokee, Clay, Graham, Macon, Jackson, and Swain counties.

(11) 30' wood pole served overhead is standard for non-floodlight luminaires.

(12) 40' wood pole served overhead is standard for floodlight luminaires.

UNDERGROUND CHARGES

(1) For non-floodlight underground facilities installed prior to September 1, 2018 or for floodlight underground facilities installed prior to November 12, 1991, the additional monthly charge for the underground conductor system:

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

Feet Per Pole	From Overhead System	From Underground System
0 – 100 feet	$0.48	$0.34
101 – 200 feet	$0.87	$0.73
Over 200 feet	$0.87 plus $0.07 for each increment of 10 feet, or less, over 200 feet	$0.73 plus $0.07 for each increment of 10 feet, or less, over 200 feet

(2) For non-floodlight underground facilities installed on or after September 1, 2018 or for floodlight underground facilities installed on or after November 12, 1991, an underground conductor system, up to 150 feet per pole, can be installed to an existing pole under the "Existing Pole" rate above, for an additional monthly charge of $4.62 per pole. For installations over 150 feet per pole, a charge of $0.07 for each increment of 10 feet, or less, over 150 feet will apply in addition to the $4.62 charge. This charge is also applicable to "New Pole Served Underground" rates over 150 feet per pole.

(3) When the installation requires the cutting and replacing of pavement, 1.0% of the estimated cost of this cutting and replacing of pavement will be added to the charges above.

(4) When an installation is in an area served by a concrete-encased duct system, additional charges stated above will not apply, and instead, the additional monthly charge will be 1.0% of the estimated cost of the underground conductor system.

RIDERS

The following Riders are applicable to service supplied under this schedule. The currently approved cents/kWh rider increment or decrement must be added to the cents/kWh rates shown above to determine the monthly bill.

Leaf No. 60	Fuel Cost Adjustment Rider
Leaf No. 64	Existing DSM Program Costs Adjustment Rider
Leaf No. 105	BPM Prospective Rider
Leaf No. 106	BPM True-Up Rider
Leaf No. 127	CPRE Rider
Leaf No. 129	EDIT-3 Rider
Leaf No. 131	EDIT-4 Rider
Leaf No. 148	ESM Rider
Leaf No. 149	PIM Rider

A Storm Securitization Rider charge will be added to the monthly bill based on the currently approved cents/kWh incremental rate as shown in Leaf No. 133.

EXPLANATORY NOTES AND OTHER CHARGES

(1) The installation of luminaires at the standard monthly rates above includes Company-designated standard wood poles.

(a) Wood poles or structures other than Company-designated standard wood poles, may be installed for an extra charge as a Decorative Adder as covered in the Outdoor Lighting Service Regulations.

(b) The Company's standard metal street lighting pole is closed as of January 1, 2010. An extra monthly charge of $5.41 per month, per pole applies to installations prior to January 1, 2010.

(c) The Company's standard metal mast-arm pole may be installed for an extra monthly charge of $5.41 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole, per month, per pole applies to installations prior to January 1, 2010. The standard metal mast-arm pole without a luminaire is closed as of January 1, 2010. A monthly charge of $7.12 plus 1.0% of the estimated installed cost difference between the requested pole and the Company's standard metal street lighting pole applies to installations prior to January 1, 2010.

(d) For non-floodlight luminaires, brackets longer than 12 feet, but not longer than 20 feet can be installed for an additional monthly charge of $4.36.

OFFICIAL COPY
Sep 26 2023

SCHEDULE PL
STREET AND PUBLIC LIGHTING SERVICE

(2) For non-floodlight luminaires installed outside municipal limits prior to January 1, 2010, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. For floodlight luminaires installed prior to November 12, 1991, should the number of poles in the secondary extension required to serve the luminaire(s) exceed the number of poles on which bracket-mounted luminaires are installed, a monthly charge of $1.72 per standard wood pole shall be made for such excess number of poles. A monthly charge of $7.37 per pole shall be made for such excess number of poles installed for service on or after January 1, 2010 for non-floodlight luminaries or on or after November 12, 1991 for floodlight luminaires in or outside municipal limits.

(3) When the installation requested requires a primary extension solely to serve the luminaires, an additional monthly charge of 1.0% of the estimated cost of the primary extension will be made. For poles to support non-floodlight luminaires installed outside municipal limits prior to January 1, 2010 and for poles to support floodlight luminaires, should the installation of secondary facilities include downguys or spanguys, a charge of $0.61 per month per guy shall be made.

(4) Standard wood poles installed prior to January 1, 2010 may be provided for $1.72 per pole per month plus $.61 per month per guy for downguys or spanguys, if needed, when provided to solely support traffic signals. Standard wood poles installed January 1, 2010 and after, may be provided for $7.37 per pole per month when provided solely to support traffic signals.

(5) Color-improved lamps installed prior to October 1, 2007 are supplied for an extra charge of $0.71 per lamp per month. For luminaries installed prior to October 1, 2007 there will be no additional charge for color-improved lamps installed as replacements for clear mercury vapor luminaires, nor for color improved lamps installed in new luminaires on or after October 1, 2007.

(6) For non-floodlight luminaires installed prior to January 1, 2010, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72. For floodlight luminaires installed prior to November 12, 1991, when two or more luminaires are installed on the same pole or other structure, the applicable monthly charges for each luminaire other than the first will be reduced $1.72.

(7) For non-floodlight LED and floodlight luminaires, the Customer may, at its option, prepay the initial capital cost of poles and underground wiring, in which case the monthly rate per luminaire shall be the Existing Pole Rate shown above.

PAYMENT

Bills under this Schedule are due and payable on the date of the bill at the office of the Company. Bills are past due and delinquent on the twenty-fifth day after the date of the bill. If any bill is not so paid, the Company has the right to suspend service. In addition, all bills not paid by the twenty-fifth day after the date of the bill shall be subject to a one percent (1%) late payment charge on the unpaid amount. This late payment charge shall be rendered on the following month's bill, and it shall become part of, and be due and payable with, the bill on which it is rendered.

CONTRACT PERIOD

The original term of contract may be from a minimum of five (5) years to a maximum of ten (10) years. Contracts will continue after the original term until terminated by either party on 30 days' written notice. The Company may require a deposit not to exceed two (2) months of the revenue for the original term. The deposit will be returned at the end of the original term, provided the Customer has met all provisions of the contract. Minimum term of contract for specific situations shall be:

(a) Five (5) years for all luminaires designated as standard by the Company and bracket-mounted on standard poles.
(b) Ten (10) years for all luminaires designated as decorative or non-standard by the Company, and for all standard luminaires mounted on supports other than standard wood poles, and for primary extensions solely serving the luminaires.

-/A

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
NC Retail Cost of Service - Per Book - 12CP Firm, Average & Excess within Retail - Rate Year 0
Beveridge Settlement Exhibit No. 4

12 Months Ended December 2021
Dollars in Thousands

Spread of Proposed Base Rate Increase to Customer Classes

		Present Revenue Run - Base Case														
	Rate Class	Annualized Rate Base (A)	Present Rates Revenues Excluding Riders (B)	Present Net Operating Income (C)	Present ROR (D)=(C)/(A)	Gross Revenues At Average ROR (E)	Variance From The Average (F)=(B)-(E)	10 0% Reduction in Variance from The Average (G)=-(F)*10%	Proposed Rate Increase Before Reduction in Variance (H)	Proposed Rate Increase After Reduction in Variance (I)=(H)+(G)	Total Adjusted Present Rates Revenues Including Riders (J) = (V)/(T)	Adjusted Proposed Percent Increase (K)=(I)/(J)	ROR at Proposed Rates (L)	Total Change in EDIT-4 Rider (M)	Proposed Rate Increase Incl. EDIT Rider After Reduction in Variance (N)=(I)+(M)	Adjusted Proposed Percent Increase Incl. Riders (O)=(N)/(J)
1	RES	$ 10,209,492	$ 2,457,789	$ 609,108	6 0%	$ 2,489,906	$ (32,117)	$ 3,212	$ 194,797	$ 198,009	$ 2,519,643	7.9%	7.4%	$ (5,360)	$ 192,649	7.6%
2	GS	3,181,875	866,309	245,988	7.7%	803,058	63,251	(6,325)	60,710	54,385	957,001	5.7%	9 0%	(1,710)	52,675	5.5%
3	LT	1,103,049	140,969	6,522	0.6%	221,787	(80,818)	8,082	21,046	29,128	135,250	21.5%	2.6%	(561)	28,567	21.1%
4	I	610,546	154,671	34,318	5.6%	159,341	(4,671)	467	11,649	12,116	169,130	7.2%	7.1%	(337)	11,779	7.0%
5	OPT	4,397,363	1,364,424	314,617	7 2%	1,310,069	54,355	(5,435)	83,902	78,466	1,464,753	5.4%	8 5%	(2,417)	76,049	5.2%
6	NC-RETAIL	$ 19,502,326	$ 4,984,162	$ 1,210,553	6 2%	$ 4,984,162	$ 0	$ (0)	$ 372,104	$ 372,104	$ 5,245,778	7.1%	7.6%	(10,386)	$ 361,718	6.9%
7	HP		14,255													
8	NC-RETAIL		$ 4,998,416													

Calculations for Rate Design in Order to Apply Increase to Unadjusted Billing Determinants

	Rate Class	Proposed Rate Increase After Reduction in Variance (P)=(I)	Customer Growth Adjustment in Present Revenues (Q)	Weather Normalization Adjustment in Present Revenues (R)	Total Adjustments to Exclude for Rate Design (S)=(Q)+(R)	Ratio of Unadjusted Present Revenues to Adjusted (T)=[(B)-(S)]/(B)	Target Revenue Increase for Rate Design (to be applied to unadjusted billing determinants) (U)=(P)x(T)	Total Unadjusted Present Rates Revenues Including Riders (V)	Proposed Percent Increase to Unadjusted Revenues for Rate Design (W)=(U)/(V)	Total Unadjusted EDIT Rider (X)	Migration Adjustment (Y)	Target Revenue Increase for Rate Design Plus Sum of Additional Rider Impacts (Z)=(U)+(X)+(Y)
9	RES	$ 198,009	$ 39,971	$ 6,992	$ 46,962	98.1%	$ 194,225	$ 2,471,499	7 9%	$ (5,258)	$ 9,154	$ 198,121
10	GS	54,385	18,349	(865)	17,484	98.0%	53,287	937,687	5.7%	(1,676)	10,071	61,683
11	LT	29,128	(2,460)	-	(2,460)	101.7%	29,636	137,611	21 5%	(571)	-	29,065
12	I	12,116	2,082	(68)	2,014	98.7%	11,959	166,928	7 2%	(333)	-	11,626
13	OPT	78,466	(4,272)	(1,251)	(5,524)	0 0%	78,886	1,470,446	5.4%	(2,428)	-	76,458
14	NC-RETAIL	$ 372,104	$ 53,669	$ 4,807	$ 58,476	0 0%	$ 367,993	$ 5,184,171	7.1%	$ (10,265)	$ 19,225	$ 376,953

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
NC Retail Cost of Service - Per Book - 12CP Firm, Average & Excess within Retail - Rate Year 1
Beveridge Settlement Exhibit No. 4_1

12 Months Ended December 2021
Dollars in Thousands

Spread of Proposed Base Rate Increase to Customer Classes

		Present Revenue Run - Base Case														
	Rate Class	Annualized Rate Base (A)	Present Rates Revenues Excluding Riders (B)	Present Net Operating Income (C)	Present ROR (D)=(C)/(A)	Gross Revenues At Average ROR (E)	Variance From The Average (F)=(B)-(E)	10 0% Reduction in Variance from The Average (G)=-(F)*10%	Proposed Rate Increase Before Reduction in Variance (H)	Proposed Rate Increase After Reduction in Variance (I)=(H)+(G)	Total Adjusted Present Rates Revenues Including Riders (J) = (V)/(T)	Adjusted Proposed Percent Increase (K)=(I)/(J)	ROR at Proposed Rates (L)	Total Change in EDIT-4 Rider (M)	Proposed Rate Increase Incl. EDIT Rider After Reduction in Variance (N)=(I)+(M)	Adjusted Proposed Percent Increase Incl. Riders (O)=(N)/(J)
1	RES	$ 10,791,221	$ 2,457,789	$ 591,128	5 5%	$ 2,498,531	$ (40,742)	$ 4,074	$ 268,268	$ 272,342	$ 2,519,643	10.8%	7.4%	$ (5,360)	$ 266,982	10.6%
2	GS	3,350,004	866,309	239,585	7 2%	805,798	60,512	(6,051)	83,280	77,229	957,001	8.1%	8 9%	(1,710)	75,519	7.9%
3	LT	1,121,702	140,969	5,386	0 5%	218,340	(77,371)	7,737	27,885	35,622	135,250	26.3%	2 9%	(561)	35,061	25.9%
4	I	640,133	154,671	33,305	5 2%	159,385	(4,714)	471	15,914	16,385	169,130	9.7%	7.1%	(337)	16,048	9.5%
5	OPT	4,602,702	1,364,424	313,215	6 8%	1,302,107	62,316	(6,232)	114,422	108,191	1,464,753	7.4%	8.6%	(2,417)	105,774	7.2%
6	NC-RETAIL	$ 20,505,762	$ 4,984,162	$ 1,182,620	5 8%	$ 4,984,162	$ -	$ -	$ 509,769	$ 509,769	$ 5,245,778	9.7%	7.6%	(10,386)	$ 499,383	9.5%
7	HP		14,255													
8	NC-RETAIL		$ 4,998,416													

Calculations for Rate Design in Order to Apply Increase to Unadjusted Billing Determinants

	Rate Class	Proposed Rate Increase After Reduction in Variance (P)=(I)	Customer Growth Adjustment in Present Revenues (Q)	Weather Normalization Adjustment in Present Revenues (R)	Total Adjustments to Exclude for Rate Design (S)=(Q)+(R)	Ratio of Unadjusted Present Revenues to Adjusted (T)=[(B)-(S)]/(B)	Target Revenue Increase for Rate Design (to be applied to unadjusted billing determinants) (U)=(P)x(T)	Total Unadjusted Present Rates Revenues Including Riders (V)	Proposed Percent Increase to Unadjusted Revenues for Rate Design (W)=(U)/(V)	Total Unadjusted EDIT Rider (X)	Migration Adjustment (Y)	Target Revenue Increase for Rate Design Plus Sum of Additional Rider Impacts (Z)=(U)+(X)+(Y)
9	RES	$ 272,342	$ 39,971	$ 6,992	$ 46,962	98.1%	$ 267,138	$ 2,471,499	10 8%	$ (5,258)	$ -	$ 261,880
10	GS	77,229	18,349	(865)	17,484	98.0%	75,671	937,687	8.1%	(1,676)	11,364	85,359
11	LT	35,622	(2,460)	-	(2,460)	101.7%	36,244	137,611	26 3%	(571)	-	35,673
12	I	16,385	2,082	(68)	2,014	98.7%	16,172	166,928	9.7%	(333)	-	15,839
13	OPT	108,191	(4,272)	(1,251)	(5,524)	0 0%	108,741	1,470,446	7.4%	(2,428)	-	106,313
14	NC-RETAIL	$ 509,769	$ 53,669	$ 4,807	$ 58,476	0 0%	$ 503,966	$ 5,184,171	9.7%	$ (10,265)	$ 11,364	$ 505,064

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
NC Retail Cost of Service - Per Book - 12CP Firm, Average & Excess within Retail - Rate Year 2
Beveridge Settlement Exhibit No. 4_2

12 Months Ended December 2021
Dollars in Thousands

Spread of Proposed Base Rate Increase to Customer Classes

		Present Revenue Run - Base Case														
	Rate Class	Annualized Rate Base (A)	Present Rates Revenues Excluding Riders (B)	Present Net Operating Income (C)	Present ROR (D)=(C)/(A)	Gross Revenues At Average ROR (E)	Variance From The Average (F)=(B)-(E)	10 0% Reduction in Variance from The Average (G)=-(F)*10%	Proposed Rate Increase Before Reduction in Variance (H)	Proposed Rate Increase After Reduction in Variance (I)=(H)+(G)	Total Adjusted Present Rates Revenues Including Riders (J) = (V)/(T)	Adjusted Proposed Percent Increase (K)=(I)/(J)	ROR at Proposed Rates (L)	Total Change in EDIT-4 Rider (M)	Proposed Rate Increase Incl. EDIT Rider After Reduction in Variance (N)=(I)+(M)	Adjusted Proposed Percent Increase Incl. Riders (O)=(N)/(J)
1	RES	$ 11,639,219	$ 2,457,789	$ 571,714	4 9%	$ 2,518,885	$ (61,096)	$ 6,110	$ 358,601	$ 364,711	$ 2,519,643	14.5%	7 3%	$ (5,360)	$ 359,350	14.3%
2	GS	3,570,639	866,309	230,081	6.4%	813,699	52,611	(5,261)	110,010	104,749	957,001	10.9%	8.7%	(1,710)	103,039	10.8%
3	LT	1,136,643	140,969	2,896	0 3%	215,997	(75,028)	7,503	35,020	42,522	135,250	31.4%	3.1%	(561)	41,961	31.0%
4	I	673,504	154,671	32,080	4 8%	159,514	(4,843)	484	20,750	21,235	169,130	12.6%	7 2%	(337)	20,898	12.4%
5	OPT	4,822,520	1,364,424	324,008	6.7%	1,276,067	88,356	(8,836)	148,580	139,745	1,464,753	9.5%	8 9%	(2,417)	137,328	9.4%
6	NC-RETAIL	$ 21,842,525	$ 4,984,162	$ 1,160,780	5 3%	$ 4,984,162	$ (0)	$ 0	$ 672,962	$ 672,962	$ 5,245,778	12.8%	7.6%	(10,386)	$ 662,576	12.6%
7	HP		14,255													
8	NC-RETAIL		$ 4,998,416													

Calculations for Rate Design in Order to Apply Increase to Unadjusted Billing Determinants

	Rate Class	Proposed Rate Increase After Reduction in Variance (P)=(I)	Customer Growth Adjustment in Present Revenues (Q)	Weather Normalization Adjustment in Present Revenues (R)	Total Adjustments to Exclude for Rate Design (S)=(Q)+(R)	Ratio of Unadjusted Present Revenues to Adjusted (T)=[(B)-(S)]/(B)	Target Revenue Increase for Rate Design (to be applied to unadjusted billing determinants) (U)=(P)x(T)	Total Unadjusted Present Rates Revenues Including Riders (V)	Proposed Percent Increase to Unadjusted Revenues for Rate Design (W)=(U)/(V)	Total Unadjusted EDIT Rider (X)	Migration Adjustment (Y)	Target Revenue Increase for Rate Design Plus Sum of Additional Rider Impacts (Z)=(U)+(X)+(Y)
9	RES	$ 364,711	$ 39,971	$ 6,992	$ 46,962	98.1%	$ 357,742	$ 2,471,499	14 5%	$ (5,258)	$ -	$ 352,484
10	GS	104,749	18,349	(865)	17,484	98.0%	102,635	937,687	10 9%	(1,676)	14,064	115,023
11	LT	42,522	(2,460)	-	(2,460)	101.7%	43,265	137,611	31.4%	(571)	-	42,694
12	I	21,235	2,082	(68)	2,014	98.7%	20,958	166,928	12.6%	(333)	-	20,625
13	OPT	139,745	(4,272)	(1,251)	(5,524)	0 0%	140,429	1,470,446	9.6%	(2,428)	-	138,001
14	NC-RETAIL	$ 672,962	$ 53,669	$ 4,807	$ 58,476	0 0%	$ 665,029	$ 5,184,171	12 8%	$ (10,265)	$ 14,064	$ 668,827

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas, LLC
NCUC Docket No. E-7, Sub 1276
NC Retail Cost of Service - Per Book - 12CP Firm, Average & Excess within Retail - Rate Year 3
Beveridge Settlement Exhibit No. 4_3

12 Months Ended December 2021
Dollars in Thousands

Spread of Proposed Base Rate Increase to Customer Classes

		Present Revenue Run - Base Case														
	Rate Class	Annualized Rate Base (A)	Present Rates Revenues Excluding Riders (B)	Present Net Operating Income (C)	Present ROR (D)=(C)/(A)	Gross Revenues At Average ROR (E)	Variance From The Average (F)=(B)-(E)	10 0% Reduction in Variance from The Average (G)=-(F)*10%	Proposed Rate Increase Before Reduction in Variance (H)	Proposed Rate Increase After Reduction in Variance (I)=(H)+(G)	Total Adjusted Present Rates Revenues Including Riders (J) = (V)/(T)	Adjusted Proposed Percent Increase (K)=(I)/(J)	ROR at Proposed Rates (L)	Total Change in EDIT-4 Rider (M)	Proposed Rate Increase Incl. EDIT Rider After Reduction in Variance (N)=(I)+(M)	Adjusted Proposed Percent Increase Incl. Riders (O)=(N)/(J)
1	RES	$ 12,388,585	$ 2,457,789	$ 629,011	5.1%	$ 2,430,368	$ 27,421	$ (2,742)	$ 447,865	$ 445,123	$ 2,519,643	17.7%	7 8%	$ (5,360)	$ 439,762	17.5%
2	GS	3,775,519	866,309	299,306	7 9%	717,561	148,748	(14,875)	136,490	121,615	957,001	12.7%	10.3%	(1,710)	119,905	12.5%
3	LT	1,153,123	140,969	29,295	2 5%	176,581	(35,612)	3,561	41,687	45,248	135,250	33.5%	5 5%	(561)	44,687	33.0%
4	I	706,926	154,671	39,500	5.6%	148,401	6,270	(627)	25,556	24,929	169,130	14.7%	8 2%	(337)	24,592	14.5%
5	OPT	5,049,227	1,364,424	135,258	2.7%	1,511,251	(146,827)	14,683	182,537	197,219	1,464,753	13.5%	5.7%	(2,417)	194,802	13.3%
6	NC-RETAIL	$ 23,073,379	$ 4,984,162	$ 1,132,369	4 9%	$ 4,984,162	$ (0)	$ 0	$ 834,135	$ 834,135	$ 5,245,778	15.9%	7.6%	(10,386)	$ 823,749	15.7%
7	HP		14,255													
8	NC-RETAIL		$ 4,998,416													

Calculations for Rate Design in Order to Apply Increase to Unadjusted Billing Determinants

	Rate Class	Proposed Rate Increase After Reduction in Variance (P)=(I)	Customer Growth Adjustment in Present Revenues (Q)	Weather Normalization Adjustment in Present Revenues (R)	Total Adjustments to Exclude for Rate Design (S)=(Q)+(R)	Ratio of Unadjusted Present Revenues to Adjusted (T)=[(B)-(S)]/(B)	Target Revenue Increase for Rate Design (to be applied to unadjusted billing determinants) (U)=(P)x(T)	Total Unadjusted Present Rates Revenues Including Riders (V)	Proposed Percent Increase to Unadjusted Revenues for Rate Design (W)=(U)/(V)	Total Unadjusted EDIT Rider (X)	Migration Adjustment (Y)	Target Revenue Increase for Rate Design Plus Sum of Additional Rider Impacts (Z)=(U)+(X)+(Y)
9	RES	$ 445,123	$ 39,971	$ 6,992	$ 46,962	98.1%	$ 436,617	$ 2,471,499	17.7%	$ (5,258)	$ -	$ 431,360
10	GS	121,615	18,349	(865)	17,484	98.0%	119,161	937,687	12.7%	(1,676)	17,055	134,540
11	LT	45,248	(2,460)	-	(2,460)	101.7%	46,038	137,611	33 5%	(571)	-	45,467
12	I	24,929	2,082	(68)	2,014	98.7%	24,605	166,928	14.7%	(333)	-	24,272
13	OPT	197,219	(4,272)	(1,251)	(5,524)	0 0%	198,225	1,470,446	13 5%	(2,428)	-	195,797
14	NC-RETAIL	$ 834,135	$ 53,669	$ 4,807	$ 58,476	0 0%	$ 824,647	$ 5,184,171	15 9%	$ (10,265)	$ 17,055	$ 831,436

OFFICIAL COPY
Sep 28 2023

Camal O. Robinson
Associate General Counsel

Duke Energy
550 South Tryon St
DEC45A
Charlotte, NC 28202

o: 980.373.2631

May 13, 2021

Ms. Kimberly A. Campbell
Chief Clerk
North Carolina Utilities Commission
4325 Mail Service Center
Raleigh, North Carolina 27699-4300

RE: *Application of Duke Energy Carolinas, LLC for Adjustment of Rates and Charges Applicable to Electric Utility Service in North Carolina and Notice to Customers of Change in Rates*
Docket No. E-7, Sub 1213
Docket No. E-7, Sub 1214
Docket No. E-7, Sub 1187

Dear Ms. Campbell:

On behalf of Duke Energy Carolinas, LLC ("DE Carolinas" or the "Company"), in compliance with the North Carolina Utilities Commission's (the "Commission") March 31, 2021 *Order Accepting Stipulations, Granting Partial Rate Increase and Requiring Customer Notice* (the "Order") and April 30, 2020 *Order Accepting Compliance Filing and Clarifying Rate Order, And Errata to Partial Prior Dissenting Opinion*, please find enclosed for filing:

- **Compliance Exhibit No. 1a** - This exhibit provides DE Carolinas' calculations of base and total revenues by rate class and rate schedule under original and interim rates, including the impact of Excess Deferred Income Tax ("EDIT") Riders. Interim revenues are reduced by Rider EDIT-2 which was effective for the duration of interim rates. This exhibit is provided in the same format as Pirro Direct Exhibit No. 2.

- **Compliance Exhibit No. 1b** - This exhibit provides DE Carolinas' calculations of base and total revenues by rate class and rate schedule under interim rates and final rates that will take effect June 1, 2021, including the impact of EDIT Riders. Final revenues are reduced by Rider EDIT-3, which is effective for the first two years, and Rider EDIT-4, which is effective for the first five years. This exhibit is provided in the same format as Pirro Direct Exhibit No. 2.

- **Compliance Exhibit No. 1c** - This exhibit provides DE Carolinas' calculations of base and total revenues by rate class and rate schedule under original and final rates, including the impact of EDIT Riders. Final revenues are reduced by Rider EDIT-3, which is effective

OFFICIAL COPY
Sep 28 2023

for the first two years, and Rider EDIT-4, which is effective for the first five years. This exhibit is provided in the same format as Pirro Direct Exhibit No. 2.

- **Compliance Exhibit No. 2** - This exhibit shows the spread of the base rate increase to the rate classes and the resulting rate of return. This exhibit is provided in the same format as Pirro Direct Exhibit No. 4.

- **Compliance Exhibit No. 3** - This exhibit provides DE Carolinas' derivation of the decremental rate changes associated with Rider EDIT-3 and Rider EDIT-4 by rate class. This exhibit is provided in the same format as Pirro Direct Exhibit No. 9.

- **Compliance Exhibit No. 4** - This exhibit provides a table reflecting the impacts of the rate changes by rate schedule.

The Company is also providing DE Carolinas' tariffs that have been revised to reflect the Company's approved revenue requirement. It is the Company's practice to include a summary of riders to allow a customer to calculate and verify their monthly bill by adding the summary of riders to the customer's applicable rate schedule. The tariffs include the Prepaid Advantage Program approved through consolidated Docket No. E-7, Sub 1213.

Also enclosed is DE Carolinas' proposed *Notice to Customers of Change in Rates*.

DE Carolinas respectfully requests expedited approval of the filing so that rates may be implemented June 1, 2021. In particular, the Company requests that the Commission review the Customer Notice as soon as possible to allow the Company sufficient time for the design, printing and programming of the notice to be included in customer bills coinciding with the revised rates.

The Company has worked with the Public Staff, who has verified the accuracy of the Company's calculations, and who has also reviewed and approved the proposed Customer Notice. Please do not hesitate to contact me should you have any questions. Thank you for your assistance in this matter.

Sincerely,

/s/ Camal O. Robinson
Camal O. Robinson

Enclosures

cc: Parties of Record

Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1214

OFFICIAL COPY
May 13 2021

NC RETAIL COST OF SERVICE - COMPLIANCE - 1CP SUMMER
For Test Year Ended December 31, 2018
Dollars in Thousands

Spread of Final Base Rate Increase to Customer Classes

Line No.	Rate Class	Original Revenue Run: Annualized Rate Base	Original Revenue Run: Original Revenue excl. Riders	Original Revenue Run: Original Net Operating Income	Original ROR	Gross Revenue at Average ROR	Variance from Average	25.0% Reduction in Variance from Average	Final Rate Increase before Reduction in Variance	Final Rate Increase after Reduction in Variance	Total Adjusted Original Revenue incl. Riders	Adjusted Final % Increase	Final ROR	Total Adjusted EDIT Riders	Final Rate Increase incl. EDIT Riders after Reduction in Variance	Adjusted Final % Increase incl. Riders
		(A)	(B)	(C)	(D) = (C) / (A)	(E)	(F) = (B) - (E)	(G) = -(F) * 25%	(H)	(I) = (H) + (G)	(J) = (V) / (T)	(K) = (I) / (J)	(L)	(M)	(N) = (I) + (M)	(O) = (N) / (J)
1	Rate RS	$ 8,793,176	$ 2,169,612	$ 488,675	5.6%	$ 2,171,787	$ (2,176)	$ 544	$ 169,749	$ 170,293	$ 2,277,360	7.5%	7.0%	$ (153,144)	$ 17,149	0.8%
2	Rate GS	2,850,539	796,540	188,701	6.6%	757,736	38,804	(9,701)	55,029	45,328	849,884	5.3%	7.8%	(49,774)	(4,446)	-0.5%
3	Rate LT	681,096	118,938	27,978	4.1%	131,987	(13,049)	3,262	13,148	16,411	118,462	13.9%	5.9%	(12,016)	4,395	3.7%
4	Rate I	456,904	141,193	36,932	8.1%	126,250	14,943	(3,736)	8,820	5,085	149,479	3.4%	8.9%	(7,906)	(2,822)	-1.9%
5	Rate OPT	4,225,911	1,253,975	206,127	4.9%	1,292,497	(38,522)	9,631	81,580	91,210	1,308,466	7.0%	6.5%	(72,509)	18,701	1.4%
6	**TOTAL RETAIL**	**$ 17,007,627**	**$ 4,480,258**	**$ 948,414**	**5.6%**	**$ 4,480,258**	**$ 0**	**$ (0)**	**$ 328,327**	**$ 328,327**	**$ 4,703,651**	**7.0%**	**7.1%**	**(295,350)**	**$ 32,977**	**0.7%**
7	HP		9,640													
8	**TOTAL RETAIL & HP**		**$ 4,489,899**													

Sep 26 2023
OFFICIAL COPY

OFFICIAL COPY
May 13 2021

NC RETAIL COST OF SERVICE - COMPLIANCE - 1CP SUMMER
For Test Year Ended December 31, 2018
Dollars in Thousands

Calculations for Rate Design in Order to Apply Increase to Unadjusted Billing Determinants

Line No.	Rate Class	Final Rate Increase after Reduction in Variance	Customer Growth Adjustment in Original Revenue	Weather Normal Adjustment in Original Revenue	Total Adjustment to Exclude for Rate Design	Ratio of Unadjusted Original Revenue to Adjusted	Target Revenue Increase for Rate Design to be Applied to Unadj. Billing Units	Total Unadjusted Original Revenue incl. Riders	Final % Increase to Unadjusted Revenue for Rate Design	Total Unadjusted EDIT Revenue	Target Revenue Increase for Rate Design incl. Additional Rider Impacts	Designed Revenue Increase for Rate Design to be Applied to Unadj. Billing Units	Designed % Increase to Unadjusted Revenue for Rate Design	Designed Revenue Increase for Rate Design incl. Additional Rider Impacts	Designed % Increase incl. Additional Rider Impacts
		(P) = (I)	(Q)	(R)	(S) = (Q) + (R)	(T) = [(B) - (S)] / (B)	(U) = (P) x (T)	(V)	(W) = (U) / (V)	(X)	(Y) = (U) + (X)	(Z)	(AA) = (Z) / (V)	(AB) = (X) + (Z)	(AC) = (AB) / (V)
1	Rate RS	$ 170,293	$ 40,184	$ (43,032)	$ (2,848)	100.1%	$ 170,517	$ 2,280,349	7.5%	$ (153,345)	$ 17,171	$ 170,508	7.5%	$ 17,163	0.8%
2	Rate GS	45,328	(3,496)	(19,381)	(22,877)	102.9%	46,630	874,292	5.3%	(51,204)	(4,574)	47,732	5.5%	(3,472)	-0.4%
3	Rate LT	16,411	287	-	287	99.8%	16,371	118,177	13.9%	(11,987)	4,384	16,363	13.8%	4,376	3.7%
4	Rate I	5,085	(394)	(619)	(1,013)	100.7%	5,121	150,551	3.4%	(7,963)	(2,842)	5,242	3.5%	(2,721)	-1.8%
5	Rate OPT	91,210	(6,982)	(31,085)	(38,067)	103.0%	93,958	1,348,149	7.0%	(74,711)	19,248	95,817	7.1%	21,107	1.6%
6	**TOTAL RETAIL**	**$ 328,327**	**$ 29,600**	**$ (94,117)**	**$ (64,517)**	**101.4%**	**$ 332,597**	**$ 4,771,518**	**7.0%**	**(299,210)**	**$ 33,387**	**$ 335,662**	**7.0%**	**36,452**	**0.8%**

Sep 26 2023
OFFICIAL COPY

-/A

OFFICIAL COPY

Sep 26 2023

Duke Energy Carolina's
Response to
Carolina Utility Customers Association, Inc.
Seventh Set of Data Requests

Docket No. E-7, Sub 1276

Date of Request: August 8, 2023
Date of Response: August 11, 2023

☐ **CONFIDENTIAL**

☒ **NOT CONFIDENTIAL**

Confidential Responses are provided pursuant to Confidentiality Agreement

The attached response to CUCA Data Request No.7-6, was provided to me by the following individual(s): Matthew Schroeder, Rates & Regulatory Strategy Manager, and was provided to CUCA under my supervision.

Jack Jirak
Deputy General Counsel
Duke Energy Carolinas

OFFICIAL COPY

Sep 26 2023

CUCA
Data Request No. 7
DEC Docket No. E-7, Sub 1276
Item No. 7-6

Request:

6. Referring to page 25 of the rebuttal testimony of Mr. Byrd nor Mr. Beveridge, provide the cost analysis supporting the current Incentive Margin in Schedule HP.

Response:

The current Incentive Margin of 0.5 cents per kWh was established with the approval of Hourly Pricing for Incremental Load, Pilot, Schedule HP-X on August 17, 1993 in Docket No. E-7 Sub 526. No related cost analysis is available.

I/A

OFFICIAL COPY

Sep 26 2023

North Carolina
Low Income Affordability Collaborative
NC LIAC Proposal Assessment Results

Updated June 9th, 2022

Convened by

DUKE ENERGY®

Public Staff
North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Table of LIAC Proposals

Proposal 01 – Closing the EE Spending and Savings Gap 4
Assessment Results 4
Comments from Assessment 4
Program Proposal Information: 5
Proposal 02 – DEP Income Qualified Weatherization 7
Assessment Results 7
Comments from Assessment: 7
Program Proposal Information: 7
Proposal 03 – Income Qualified High Energy Use 9
Assessment Results: 9
Comments from Assessment 9
Program Proposal Information: 10
Proposal 04 – Residential ER and HHP Water Heater Rental 12
Assessment Results: 12
Comments from Assessment: 12
Program Proposal Information: 12
Proposal 05 – Manuf. Homes EE Retrofit and Replacement 15
Assessment Results: 15
Comments from Assessment: 15
Program Proposal Information: 15
Proposal 06 – Arrearage Management pilot EE 17
Assessment Results: 17
Comments from Assessment: 17
Program Proposal Information: 18
Proposal 07 – Low Income Carve-out from Market EE 19
Assessment Results: 19
Comments from Assessment: 19
Program Proposal Information: 19
~~Proposal 08 - Comprehensive Affordable Multifamily EE~~ (see P23) 21
~~Proposal 09 - Comprehensive Tiered Discount Bill Pay Assist~~ (see P24) 22
Proposal 10 - Comprehensive Definition of Affordability and Develop Metrics and Methodologies for Assessing and Monitoring the Relative Affordability of Electric Service 23
Assessment Results: 23

OFFICIAL COPY
Sep 26 2023

Comments from Assessment: 23
Program Proposal Information: 24
Proposal 11 - Prioritized Marketing and Distribution LI Funds 26
Assessment Results: 26
Comments from Assessment: 26
Program Proposal Information: 26
Proposal 12 - Required Credit and Collections Data Reporting 28
Assessment Results: 28
Comments from Assessment: 28
Program Proposal Information: 28
Proposal 13 - Minimum Bill Pilot Program 31
Assessment Results: 31
Comments from Assessment: 31
Program Proposal Information: 31
Proposal 14 - Voluntary Wx, EE, UR Partnership Forum 33
Assessment Results: 33
Comments from Assessment: 33
Program Proposal Information: 33
Proposal 15 - Duke Energy Winter Moratorium 35
Assessment Results: 35
Comments from Assessment: 35
Program Proposal Information: 36
Proposal 16 - Re-examine Regulatory Consumer Protection 38
Assessment Results: 38
Comments from Assessment: 38
Program Proposal Information: 38
~~Proposal 17 - Help My House Model~~ (Redirected to Tariff Working Group) 40
~~Proposal 18 - Smart $aver Low Income Multi-Family Retrofit~~ (see P23) 42
Proposal 19 - NC Healthy Homes Initiative 44
Assessment Results: 44
Comments from Assessment: 44
Program Proposal Information: 45
Proposal 20 - DEP Weatherization Program 51
Assessment Results: 51
Comments from Assessment: 51

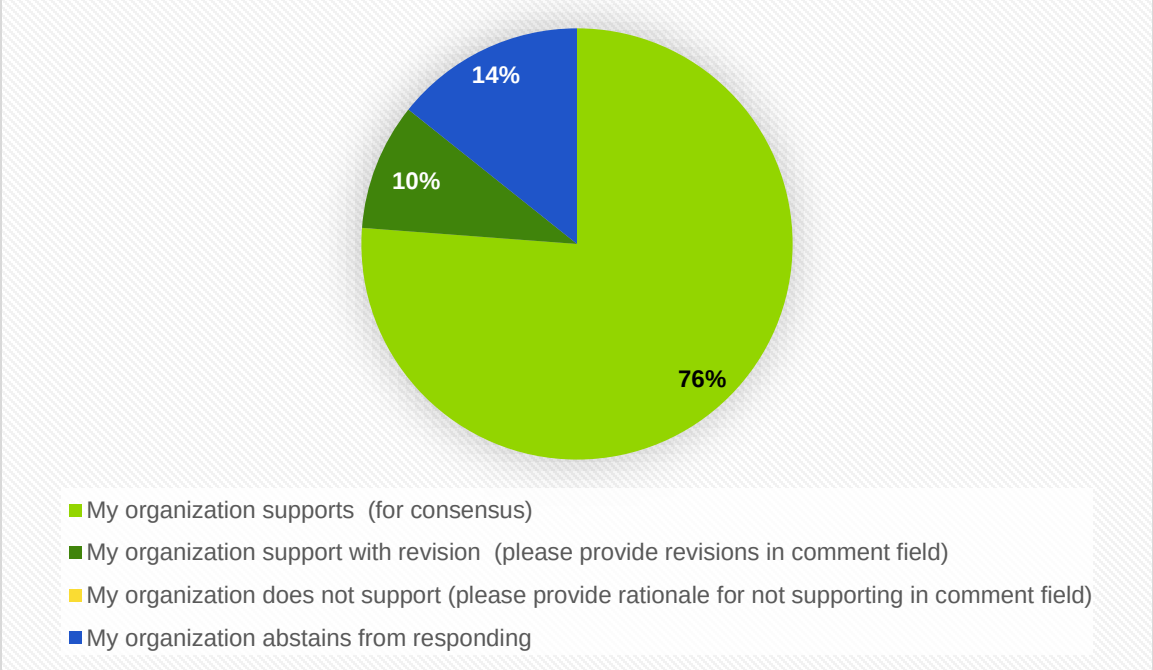
OFFICIAL COPY
Sep 26 2023

Program Proposal Information: 52
Proposal 21 - NC Low-Income Energy Major Home Repair 58
Assessment Results: 58
Comments from Assessment: 58
Program Proposal Information: 59
~~Proposal 22 - Customer Affordability Program~~ (see P24) 63
Proposal 23 - Smart $aver Low Income Multi-Family Retrofit (P08 + P18) 66
Assessment Results: 66
Comments from Assessment: 66
Program Proposal Information: 67
Proposal 24 - Customer Affordability Program “CAP” (P09 + P22) 70
Assessment Results: 70
Comments from Assessment: 70
Program Proposal Information: 71
Appendix 74
Responding Organizations 74

OFFICIAL COPY
Sep 26 2023

Proposal 01 – Closing the EE Spending and Savings Gap

Assessment Results



Comments from Assessment

"The reasons for the gap in spending should be studied and understood. There are historical differences between DEC and DEP. For instance, DEP has more Tier 1 counties compared to DEC. Additionally, pre-merger, DEP and DEC each had its own portfolio of DSM/EE programs, and there were many differences between the two portfolios. Over time post-merger, many of the programs of the two companies have been modified to be identical; however, these historical differences may account for the gap to some extent. Once the differences are understood then DEP may better target customers of need and mindfully deploy EE programs based on actual identified customer groups. The following general note should be considered included in Public Staff responses to all proposals.

The Public Staff has reviewed each of these proposals in isolation without any projections of costs, benefits, cost-effectiveness, participation, etc. Only with this and other pertinent information could the Public Staff make a final determination as to whether it supports or does not support a proposal. The Public Staff would also have to consider the cost and rate impact of all programs or proposals to be implemented at the same time before making a final determination as to its position. This statement applies to each proposal." **– Public Staff of the North Carolina Utilities Commission**

OFFICIAL COPY
Sep 26 2023

"Duke Energy strives to offer programs that reasonably similar between the jurisdictions and apply learnings before expanding programs to the other jurisdiction, which is why it is filing the DEP Weatherization Program with the NCUC the week on June 7th. The addition of the Weatherization Program in DEP will immediately increase the DE Program spend and reduce the current gap in spending. However, the jurisdictional make-up of the DEC and DEP territories is different, so it's unlikely that the low-income program spend, and energy saving will be consistently proportionate. Fundamentally, qualified customers will be the key to driving program demand and participation for each jurisdiction. Customer engagement levels difficult to predict and often changes over time as the marketplace conditions change. Duke Energy will make reasonable efforts to engage, educate and encourage participation low-income energy efficiency programs for eligible customers in both jurisdictions.

The weatherization programs are dependent upon the agencies working in each territory. State and federal determine the foundational funding provided for each agency to and perform weatherization services for their assigned area of responsibility. The amount of funding provided is determined by the low-income need for each agency and the past performance in providing services for eligible applicants. The amount of funding provided to each agency or non-profit entity can vary substantially at the individual and aggregate level, so not always an apple to apples comparison.

In addition, the city v. rural make up of the DEC v. DEP territories is quite different and can impact the low-income opportunity for Duke Energy served customers and how applicants are prioritized for low-income services by the local agencies. Other influencing factors include, but are not limited to:

- *The age, type and condition of the housing stock occupied by income qualified customers*
- *Health and Safety issues are customer specific which vary widely by the number and cost of improvements required to serve weatherization applicants*
- *Prioritization of applicants is conducted by the agencies using a specific scoring protocol required by the governmental funding sources*
- *Willingness and capability of each agency to incorporate Duke Energy incentives into the program funding structure*
- *Waitlist of applicants can impact which customers can be served, when they can be served and if they are served at all*
- *Not all customer deemed to be income qualified want or need to participate in the programs, so a straight-line correlation to participation may not be accurate*

It is Duke Energy's intention and aspiration to serve as many qualified customers as possible through low-income energy efficiency programs, but a singular territory comparison of program spending and energy savings rarely tells the whole story of how well customers in need are being helped." **– Duke Energy**

Program Proposal Information:

OFFICIAL COPY
Sep 26 2023

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Closing the income-qualified energy efficiency program spending and savings gap between DEP and DEC

Program Description: Proportionately, Duke Energy Carolinas has historically spent and delivered more efficiency savings than Duke Energy Progress. This recommendation is for DEP to increase its spending and savings to close this gap.

Program Objective: Increase the level of DEP low-income customer participation and energy / bill savings.

Target Participants: Customers who meet the income-qualified criteria for Duke's low-income energy efficiency programs.

Program Administration: DEP

Eligibility Criteria: Customers who meet the income-qualified criteria for Duke's low-income energy efficiency programs.

Success Metrics: Increase the level of DEP low-income customer participation and energy / bill savings.

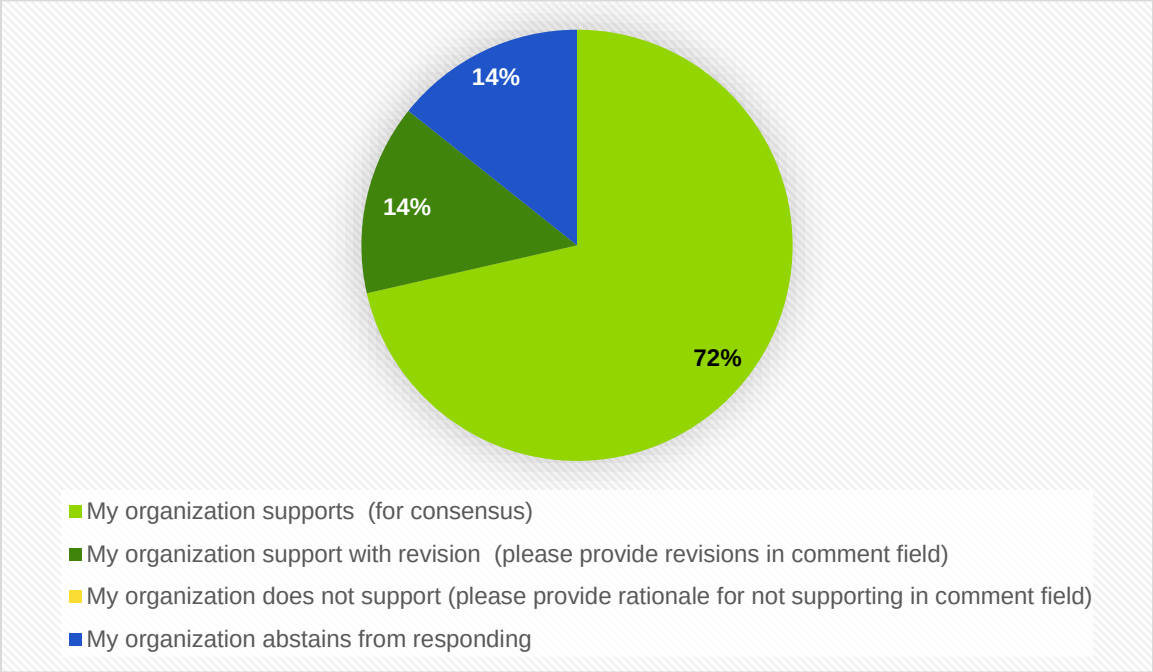
Program Partners: N/A

Additional Information: For more information contact Forest Bradley-Wright (504) 208-7597 forest@cleanenergy.org

OFFICIAL COPY
Sep 26 2023

Proposal 02 – DEP Income Qualified Weatherization

Assessment Results



Comments from Assessment:

"AARP looks forward to learning more about the specific ways in which this program would lower the cost barrier to energy efficiency retrofits in low-income households, and information about the cost and savings for low-income households that participate in this and other energy efficiency programs. AARP supports cost-effective measures to promote clean energy that yield affordable energy, AARP supports energy efficiency and weatherization programs including for low income customers. We urge that DOE and Federal infrastructure funds be used first to fund such a program." – **AARP**

"Only non-ratepayer funds should be utilized for health and safety work." - **Public Staff of the North Carolina Utilities Commission**

"The Company plans to file the DEP Income Weatherization Program with the NCUC within the next two weeks." – **Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

OFFICIAL COPY
Sep 26 2023

Program Name: Duke Energy Progress Income Qualified Weatherization Program

Program Description: Modeled off of the Duke Energy Carolinas program of the same name, the DEP IQ Wx program will incorporate the ability for Duke to fund the entire project cost for EE improvements with flexibility for in per-home spending levels (up to $10,000) comparable to the 2019 Durham Pilot. Total program spending levels will at least match those on a per residential customer basis as the DEC program.

Program Objective: Deep energy efficiency retrofits to low-income households.

Target Participants: Customers who meet the LIAC definition of low-income including, but not limited to, customers served by Weatherization Assistance Program administrators.

Program Administration: Duke Energy Progress

Eligibility Criteria: Customers who meet the LIAC definition of low-income including, but not limited to, customers served by Weatherization Assistance Program administrators.

Success Metrics: Number of low-income households served, and depth of energy / bill savings for participating customers.

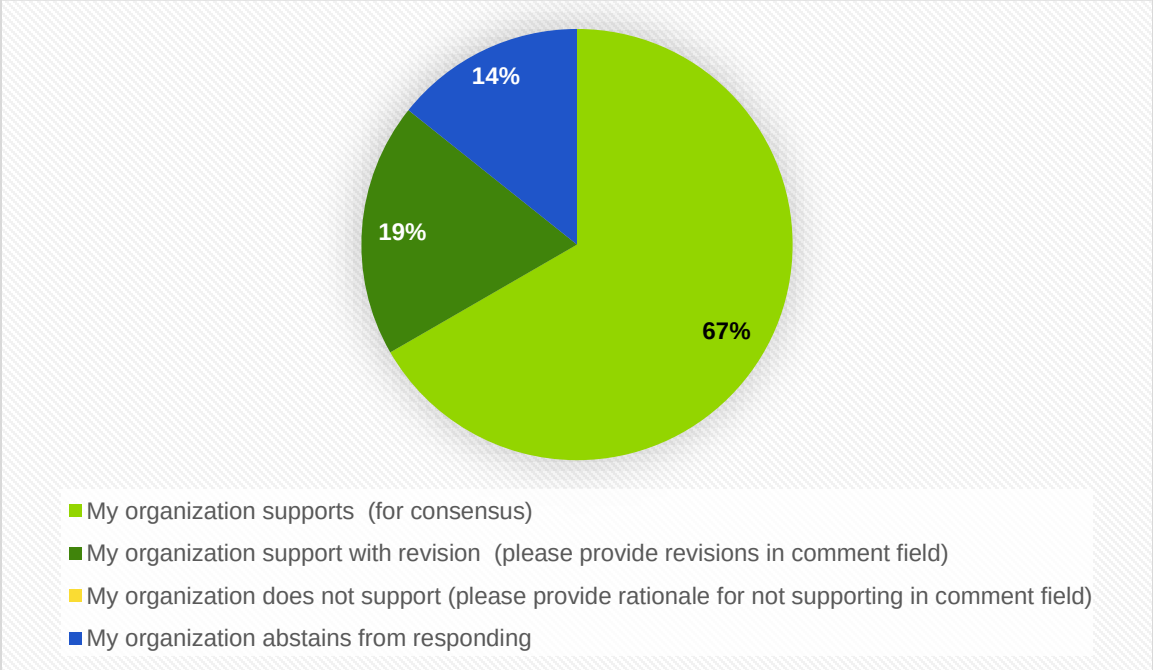
Program Partners: WAP program implementers

Additional Information: For more information contact Forest Bradley-Wright (504) 208-7597 forest@cleanenergy.org

OFFICIAL COPY
Sep 26 2023

Proposal 03 – Income Qualified High Energy Use

Assessment Results:



Comments from Assessment:

"AARP supports energy efficiency programs including for low income customers. We urge that DOE and Federal infrastructure funds be used first to fund such a program. We think a pilot program might also be a good idea." **– AARP**

"The system impact is greatest by targeting high electric energy consumption customers. Only non-ratepayer funds should be utilized for health and safety work. If ratepayer funds are used for the energy-related portions of the program, any savings claimed by Duke must go through the EM&V process." **– Public Staff of the North Carolina Utilities Commission**

"Must include a component for customer education for maintenance of equipment and practical ideas to reduce energy consumption." **– Rowan Helping Ministries**

"In the statistical analysis, higher winter peak and summer peak usage were associated with a customer being more likely to be in arrears, receive a 24-hour notice, and be disconnected. These results would support reducing high energy use via this pilot and the resulting research could prove valuable." - **Nicholas Institute**

OFFICIAL COPY
Sep 26 2023

"The Companies support an income qualified high electric use pilot program with plans to file it for NCUC approval in the near future." **– Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Income Qualified High Energy Use

Program Description: This program provides deep energy retrofits at no cost to low-income customers with high energy use. The program will develop processes to incorporate additional funding for health and safety repairs from non-ratepayer sources to serve previously ineligible customers.

The program would be based on a proposed pilot program developed by advocates and Duke Energy out of a 2021 rate case settlement agreement and will likely be filed at the NCUC in early Summer 2022. The pilot will serve 1,000 customers in two selected test regions.

The proposed pilot is a first step to developing a full program that addresses the systemic and persistent need of high energy use low-income customers.

Measures included:

- HVAC Replacement
- Comprehensive Air Sealing
- Insulation (Attic and Belly)
- Duct Sealing
- Heat Pump Water Heater
- Refrigerator Replacement with ENERGY STAR model
- Tier 1 Base Load Package (LED bulbs and electric hot water measures)

Research questions of the pilot are:

- Does pairing H&S with EE result in significant savings for LI customers?
- Can work be accomplished in a reasonably cost effective to achieve a 0.5 UCT?
- Are current deemed savings estimates accurate for this segment of high energy using LI customers?
- Does this program result in lower arrearage rates and less energy insecurity for participants?
- Does sufficient 3rdparty funding exist to make this pilot a sustainable program?
- Does this design hold potential for reducing winter peak or for encouraging enrollment in DR?

OFFICIAL COPY
Sep 26 2023

Program Objective: The objective of the program is to deliver deep energy savings to low-income customers with high energy use. The top 50% of energy users consume at least 17,800 kwh annually.

The findings from the LIAC subgroup A show low-income customers receiving CIP or LIHEAP assistance have on average much higher energy use, and higher energy intensity compared to other customer groups. This high energy use is persistent across all demographics studied including housing type, housing location, arrearage status, heating source, race.

These high energy use customers are often not eligible for existing weatherization services, and thus cannot lower their energy use, because their home is in some state of disrepair. Currently as many as 40% of homes are turned away from state-administered weatherization programs for health and safety reasons. The objective of this program is for Duke Energy to serve an important role identifying and coordinating available health and safety funds from around the state with whole home energy efficiency projects. The data shows high energy use is an enduring trend and if we are to address energy affordability, programs must find a way to incorporate health and safety funds.

Target Participants: Low-income single-family customers not served by Weatherization Assistance Program

Program Administration: Duke Energy with a 3rd party program administrator

Eligibility Criteria:

- At or below 200% of Federal Poverty Level
- Enrollment in LIHEAP or similar state/federal
- Top 50% of energy users (minimum 17,800 kwh annually)
- Homeowners and renters

Success Metrics:

- As found energy savings for the customer
- Winter peak reduction
- Cost effectiveness rating – UTC
- Level of 3rd party H&S funding
- Arrearage rates as compared to non-program participants

Program Partners: Local governments with home repair funding

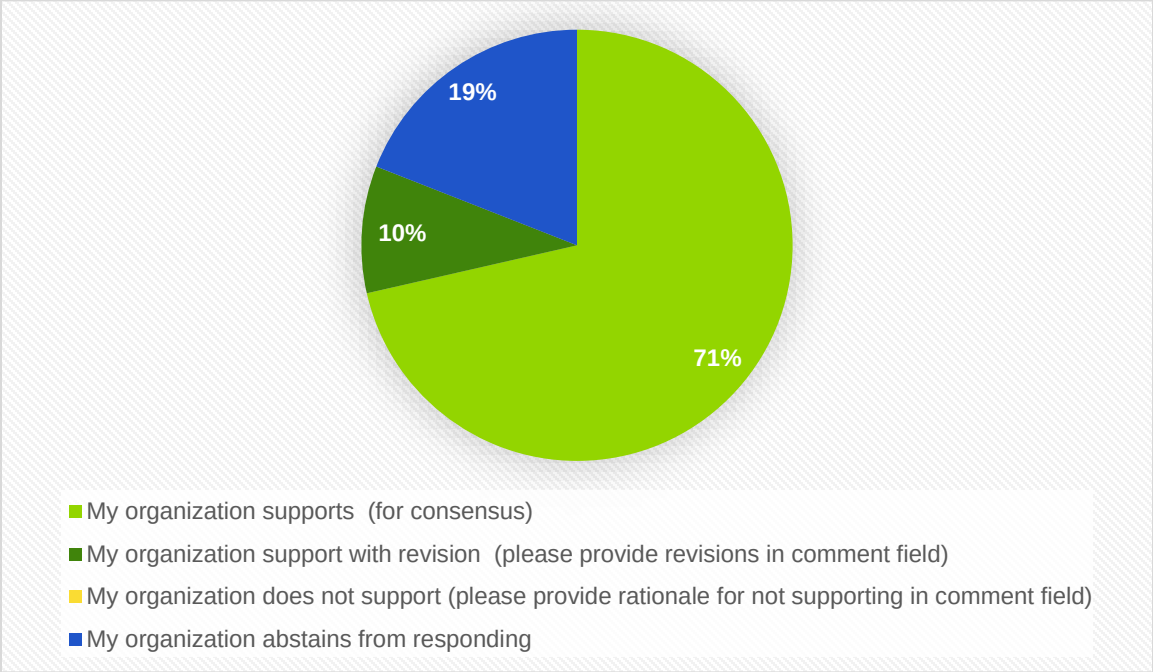
Additional Information: The pilot will be administered by Duke and build on Duke's Income-Qualified Weatherization pilot in Durham. The Durham pilot used a combination of Helping Home Fund and ratepayer dollars to targeted high-energy low-income customers for retrofits. The Durham Pilot lacked rigorous EM&V to adequately determine cost effectiveness for a full-scale program.

For more information contact Claire Williamson (919) 619-0315 claire@ncjustice.org

OFFICIAL COPY
Sep 26 2023

Proposal 04 – Residential ER and HHP Water Heater Rental

Assessment Results:



Comments from Assessment:

"A waiver of the Commission disconnect rules may be needed to avoid disconnect based on non-payment of non-electric charges. The Public Staff has historically opposed disconnection for non-electric charges. More detail about the rental contracts needs to be provided before it can be determined whether it is appropriate to implement this program through a rental program. It may be more appropriate to implement this measure in a traditional EE program where the customer purchased, owned, and maintained the equipment and then qualified for a credit/discount similar to the Smart Saver program." **- Public Staff of the North Carolina Utilities Commission**

"The Companies are committed to evaluating a customer owned program offered via an on-tariff financing offer." **– Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

OFFICIAL COPY
Sep 26 2023

Program Name: Residential Electric Resistance Tank Water Heater (ER) and Hybrid Heat Pump Hybrid Water Heater (HHPWH) Rental Program

Program Description: The Residential Electric Resistance Tank Water Heater (ER) and Hybrid Heat Pump Water Heater (HHPWH) Rental Program is operated by Duke Energy DEP and DEC (Hereinafter Duke) as a service to residential rate payers.

The program will market water heater replacement services to all residential ratepayers. The service will have the following characteristics:

1) Duke will bulk purchase ER and HHPWH units to help lower rental costs to end uses.
2) Duke will incorporate any available rebate program benefits into the service
3) Due to the significant energy savings of HHPWHs, Duke will prioritize, HHPWH where conditions of the installation location allow (i.e.: ambient air requirements, space constraints, wiring, plumbing, and condensation requirements).
4) The service will include qualified plumbers that will identify best options for end users, install units, and service units as needed.
5) All units will be DR ready CTA-2045-A compliant and have built in WI-FI components.
6) Duke must develop a comprehensive approach to capturing the load management opportunities provided by HHPWH through a DSM program to utilize all installed units for maximum DSM benefits including thermal storage and time of use dynamics. As appropriate, customer rental costs should be reduced to reflect the DSM benefits. Units should be installed with thermal mixing valves included so that residential users do not experience unreasonable lack of hot water.
7) All participants must allow Duke to utilize thermal storage, time of use, and other DSM characteristics of units.
8) Rental payments will be structured to not exceed the expected lifetime of the units
9) Rental payment amounts will be determined on the basis of installation costs, unit costs, expected average service and maintenance costs, less any applicable DSM rebates used to “buy-down” the rental costs, especially for income-eligible customers. Additional benefits to bring down rental costs should be considered as part of the program for qualified Low-income customers.
10) Service would include installation of pipe insulation, and low-water shower heads and faucets.

*Note that this program could also be structured as part of a Tariff-On-Bill (TOB) program.

Program Objective:

1) Overcome cost barriers to obtaining the most efficient ER and HHPWH units.
2) Maximize EE benefits to the residential customer and to Duke.
3) Maximize DSM benefits including thermal storage to the residential customer and to Duke.
4) Lower residential energy bills through EE and DSM utilization of units.
5) Lower grid impacts through EE and DSM utilization of units

Target Participants: All residential customers would be encouraged to use the service, however, special program designs to help low-income customers utilize the service can be considered. Through large scale adoption, the benefits of bulk purchase, EE, and DSM can be fully leveraged.

OFFICIAL COPY
Sep 26 2023

Program Administration: Duke Energy with 3rd party administer.

Eligibility Criteria: Aggressively market program benefits for replacement of inefficient existing units and for replacement when existing units fail. Use SMART meter technology and other data screens to target residential users with likely inefficient high intensity water heater units.

Success Metrics: Track energy savings, reduction in electric bills, DSM savings, and water consumption savings.

Program Partners: Partner with ER and HHPWH manufactures and plumbing companies.

Additional Information:

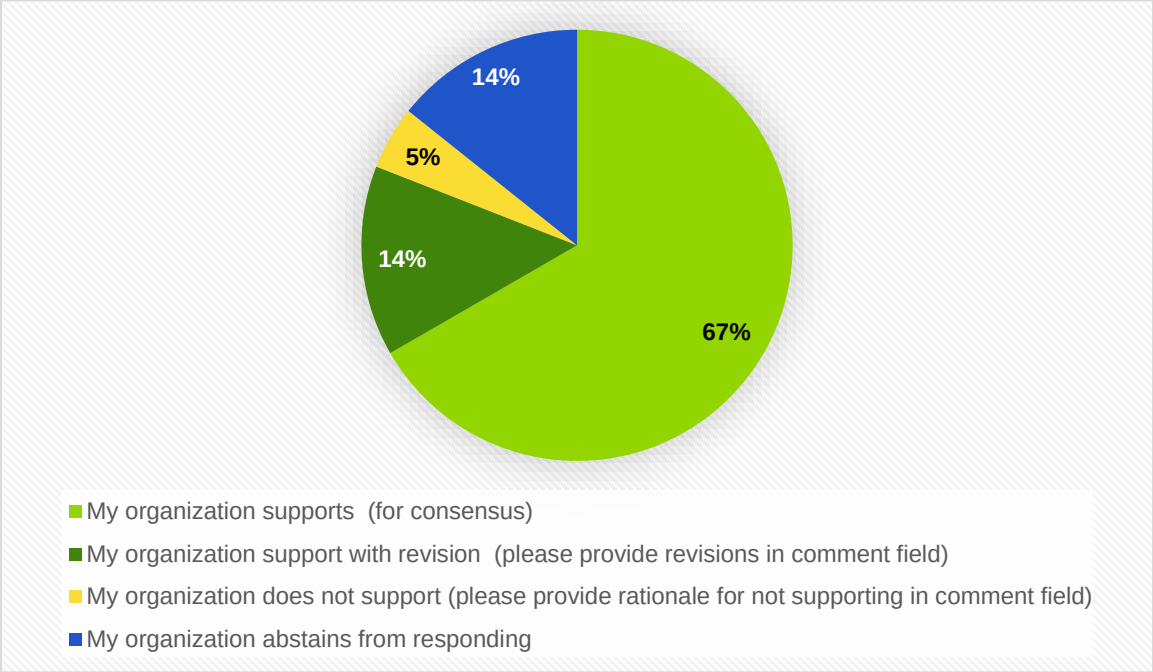
A similar program has been successfully run by Energy NB Power for many years: https://www.nbpower.com/en/products-services/water-heaters

For more information contact Al Ripley (919) 274-8245 al@ncjustice.org

OFFICIAL COPY
Sep 26 2023

Proposal 05 – Manuf. Homes EE Retrofit and Replacement

Assessment Results:



Comments from Assessment:

"AARP in general supports energy efficiency programs including for low income customers. We would appreciate more information on this program." **– AARP**

"It is not appropriate to use of ratepayer funds for replacement of manufactured homes. The program should implement only cost-effective EE measures for low-income customers living in manufactured homes similar to other EE programs." **- Public Staff of the North Carolina Utilities Commission**

"The findings of the statistical analysis support a focus on mobile homes regardless of the tenure of the account holder (owner or renter)." **- Nicholas Institute**

"This seems beyond the scope of the Duke Energies corporate responsibilities. Great idea for another organization to administer." **– Rowan Helping Ministries**

"Yes, the Companies are committed to evaluating this proposal although it may be cost prohibitive." **– Duke Energy**

Program Proposal Information:

OFFICIAL COPY
Sep 26 2023

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Manufactured Homes Energy Efficiency Retrofit and Replacement Program

Program Description: Manufactured homes on average use substantially more energy per square foot than other housing types, while residents frequently lack the financial resources to address problems of energy waste. This program aims to overcome barriers to affordability and dramatically increase the efficiency of Duke's manufactured homes through improvements to existing manufactured homes, replacement of the most outdated units, and increasing the overall efficiency performance of new manufactured homes.

Program Objective: Reducing high energy bills, lowering energy burden, and improving health and comfort for residents of manufactured homes.

Target Participants: Manufactured home residents and prospective manufactured home purchasers, with a priority on serving customers that meet LIAC-established low-income and energy burden criteria.

Program Administration: Duke Energy Carolinas and Duke Energy Progress would administer these programs (through a third party implementer), enroll participants, validate eligibility, and track progress by contracting regular EM&V, comparable to other energy efficiency programs.

Eligibility Criteria: The program could be targeted only to customers who meet the low-income eligibility criteria established by the LIAC, or such customers could receive a higher level of financial support (e.g., free retrofits and larger discounts for home purchases) than customers non-income qualified customers.

Success Metrics:

a) Number of customers receiving retrofits, b) participant energy / bill savings, c) number of customers acquiring high efficiency units, d) broad-based market transformation for manufactured home sales.

Program Partners: Manufactured home manufacturers and dealerships (to ensure supply availability).

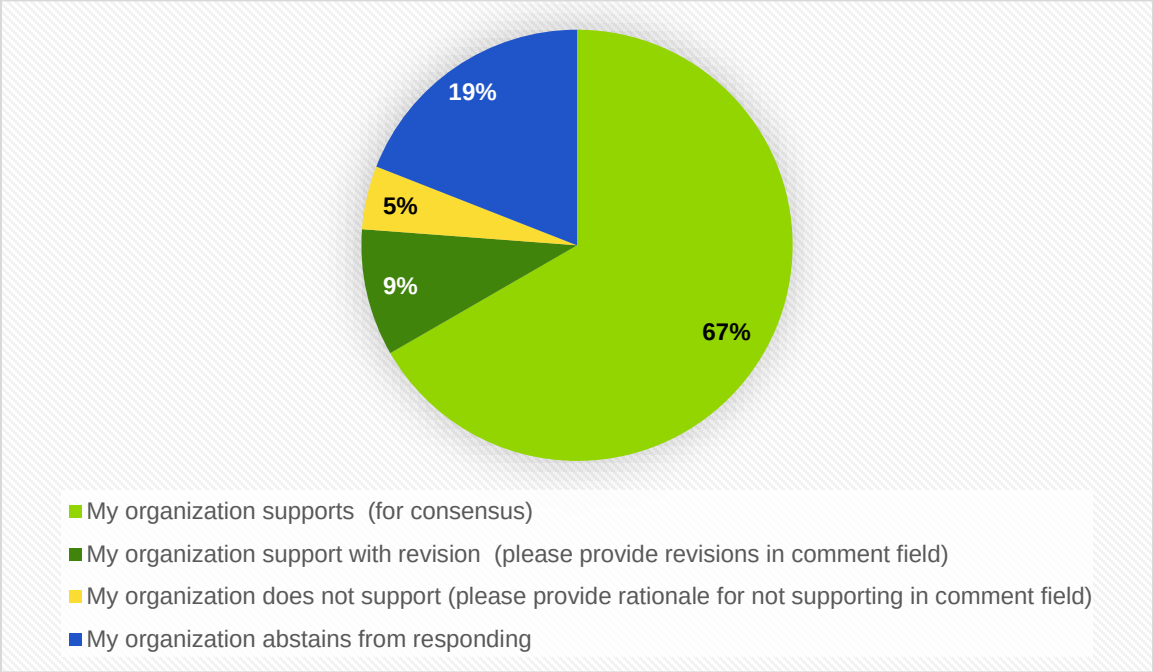
Additional Information: Comparable programs have been successfully implemented in Arkansas, Oregon, TVA, and Vermont. These program concepts have been proposed to Duke through the Energy Efficiency Collaborative and preliminary analysis has been conducted.

For more information contact: Forest Bradley-Wright (504) 208-7597 forest@cleanenergy.org

OFFICIAL COPY
Sep 26 2023

Proposal 06 – Arrearage Management pilot EE

Assessment Results:



Comments from Assessment:

"It is generally not appropriate to use ratepayer funds for arrearage forgiveness; however non-ratepayer funds could be utilized for arrearage forgiveness. It may be appropriate to use ratepayer funding for arrearage forgiveness to the extent that it is revenue neutral. Duke should analyze the impact to uncollectables and assess the actual administrative costs and late fees. This delta could flow back to offset arrearages/uncollectables. Such an offset would be appropriate for consideration in the next rate case. It is inappropriate for a utility to profit based on ratepayers' inability to pay their bills. Prior to arrearage forgiveness, all other sources of funding should be sought and utilized. Arrearage metrics should be tracked to ensure that no perverse incentive to stop paying bills has been created. Access to arrearage forgiveness should limited (1-5 years)." **- Public Staff of the North Carolina Utilities Commission**

"We are seeing first hand payment arrangements - post moratorium - are not working for our clients. Our clients are making payment arrangements without the ability to pay. Arrangements need to be made soon after an arrearage occurs and payment needs to fit the financial capacity of the customer." **– Rowan Helping Ministries**

"The findings of the statistical analysis how that those with higher than the national average electric burdens were statistically significantly more likely to be in arrears and more likely to be disconnected over time." **- Nicholas Institute**

"The Companies are opening to evaluating an arrears management program in the CAP proposal that is not specific to energy efficiency program participation." **– Duke Energy**

OFFICIAL COPY
Sep 26 2023

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Arrearage Management pilot EE program

Program Description: This program would be intended to link energy burden, energy inefficiency, and arrearage management in a unified, encompassing program offering. Households with limited incomes typically face much higher energy burdens that the general population, and as such may be at much higher risk of not being able to pay utility bills on time – especially when they are higher than they could be due to inefficient structures, HVAC equipment, and appliances. The program assumes that most households that fall behind in paying their bills would pay them if they could. Therefore, to make paying those bills more manageable this program would identify households that have fallen behind in their bills and offer a three-part program that includes the following: 1) installation of energy efficiency measures to reduce forward-going bills, preferably through a comprehensive weatherization approach; 2) a payment plan for affordably repaying a portion of the arrearage, and; 3) if the household adheres to the payment plan, forgiveness of the remaining unpaid arrearage. The program revolves around the creation of a relationship between the utility and participating households that is less focused on collections than on working together to identify a plan to reduce the likelihood of future arrearages.

Program Objective: Working with energy-burdened households to change the cycle of recurring hardship in paying utility bills, which creates hardship for both affected household and the utility and its general customers.

Target Participants: Households who are in arrears, especially when it can be determined that bills could be reduced through energy efficiency.

Program Administration: Given its key role in coordinating repayment plans this should be administered by the utility.

Eligibility Criteria: This would be available to households meeting eligibility requirements for the utility's income-eligible energy efficiency programs who are in arrears.

Success Metrics: This program would track the magnitude of utility bills, success in adhering to payment plans, success in achieving arrearage forgiveness, ability of households to stay current with bills after participation.

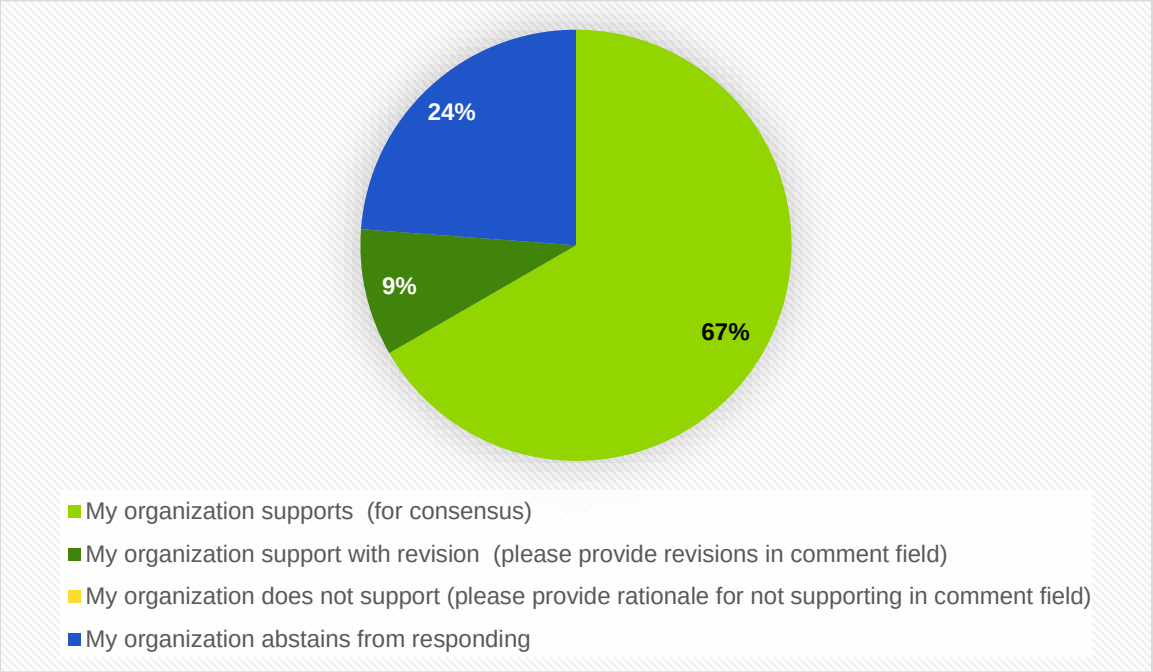
Program Partners: Community-based agencies and organizations that support low-income households.

Additional Information: For more information contact Al Ripley (919) 274-8245 al@ncjustice.org

OFFICIAL COPY
Sep 26 2023

Proposal 07 – Low Income Carve-out from Market EE

Assessment Results:



Comments from Assessment:

"A market study is necessary before this proposal should move forward. The participant incentive should not exceed 25% of the cost of measure." - **Public Staff of the North Carolina Utilities Commission**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: LI Carve-out from Market EE programs

Program Description: The extent to which income eligible customers may participate in programs designed for the general public is a topic of discussion in many jurisdictions. It is likely true that income-eligible utility customers participate to some degree in these programs, however this raises important questions about whether those programs serve these customers well, given that in many cases the participant is required to share in the costs of the measure, which may place additional financial burdens on the household. To ensure this would not be the case, residential general market programs can be designed with enhanced incentives for

OFFICIAL COPY
Sep 26 2023

income-eligible customers. For example, a program that promotes heat pump water heaters to the general residential customer base could also offer an enhanced incentive for income-eligible customers that would significantly reduce the out-of-pocket costs of the water heater to a level that research showed could be viable for these customers. In such a program it would be critical for program marketing and information to clearly identify this enhanced incentive option to ensure that income-eligible customers do not end up paying more than is necessary. See, e.g., https://www.efficiencyvermont.com/rebates/list/heat-pump-water-heaters.

Program Objective: The program would be intended to make energy efficiency accessible to income-eligible households who would otherwise not be able to afford EE measures. Such a program would be additive to, rather than in lieu of any primary income-eligible programs such as comprehensive weatherization and should include a referral to those programs as a matter of course.

Target Participants: All income-eligible customers who might need to make a purchase to replace failed equipment and who might either not be in the queue for comprehensive services or whose need is more immediate

Program Administration: As an enhanced element of the utility's general market programs this should be administered by the same entities that already administer those programs.

Eligibility Criteria: Given the objective of using participation in enhanced general market programs as a tool to enroll income-eligible customers in comprehensive income-eligible programs, the income eligibility criteria should be the same as for the existing income-eligible comprehensive programs.

Success Metrics: Increase in number of income-eligible customers getting enhanced incentives and referrals to comprehensive programs over time, reduction in number of income-eligible customers not getting enhanced incentives.

Program Partners: All the trade allies that currently participate in general market programs.

Additional Information: For more information contact Jim Grevatt (802) 373-2488 jgrevatt@energyfuturesgroup.com

OFFICIAL COPY
Sep 26 2023

~~Proposal 08 - Comprehensive Affordable Multifamily EE~~ (see P23)

~~Name and Organization~~~~: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)~~

~~Program Name~~~~: Comprehensive Affordable Multifamily Energy Efficiency program~~

~~Program Description~~~~: Various regulations commonly drive utility energy efficiency programs aimed towards multifamily housing to take a fragmented approach in providing services. Multifamily tenants who are income-eligible may receive no-cost efficiency measures that are applicable only to their units, such as efficient lighting, but may not be eligible for incentives or measures that are tied to the property owners' utility bills, which are commonly on commercial rates. The incentives available through standard commercial programs may not be sufficient to make efficiency measures affordable – and clearly operating costs play a key role in determining the costs of operating multifamily housing. The result is that comprehensive efficiency projects in affordable multifamily housing are unlikely to occur, thus failing to make a significant dent in the energy costs for these buildings. To overcome these obstacles, this program would provide a one-stop shop approach where a single program point of contact would work with property owners to facilitate comprehensive efficiency projects that address both in-unit (residential) and common area/common system (commercial) efficiency measures. Rather than treating the commercially metered elements of affordable multifamily housing as a business, the program would offer enhanced incentives on the basis of the income-eligible residents, thus helping reduce the operating costs for the building as well as tenants' bills.~~

~~Program Objective~~~~: Comprehensively address all efficiency opportunities in affordable multifamily housing regardless of metering configurations and utility rate structures.~~

~~Target Participants~~~~: Affordable multifamily housing~~

~~Program Administration~~~~: This program could be administered by a third-party vendor, or community action/weatherization agency.~~

~~Eligibility Criteria~~~~: Eligibility would be based on the income-eligibility of tenants.~~

~~Success Metrics~~~~: Overall bill reductions for affordable housing including both residential and commercial meters.~~

~~Program Partners~~~~: State housing authority, non-profit affordable housing providers, tenant organizations, community action/weatherization agencies~~

~~Additional Information~~~~: For more information contact Jim Grevatt (802) 373-2488 jgrevatt@energyfuturesgroup.com~~

OFFICIAL COPY
Sep 26 2023

~~Proposal 09 - Comprehensive Tiered Discount Bill Pay Assist~~ (see P24)

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Comprehensive Tiered Discount Bill Payment Assistance

Program Description: The Electric Payment Assistance Program will provide certain income eligible residential customers with monthly payment assistance to help electric energy insecure rate payers pay their electric bill. The program will have the following characteristics:

1) Three income tiers of assistance Tier 1, 0-50% FPL, Tier 2, 51-100% FPL, and Tier 3, 101% - 150% FPL with the highest level of assistance to Tier 1 and lowest level to Tier 3.
2) The goal of assistance will be to reduce the electric energy burden (i.e., the amount of income spent on electricity) to no more than 5% of family income
3) The program would provide arrearage assistance for participating customers. Arrearages would be forgiven if a residential customer remains current for a period of 12 months after enrolling in the program.
4) Admin – no more than 5% of the value of discounts and arrearage write-down could be used for program administration, however, in the first year of the program the 5 % cap would not apply to allow for the appropriate and reasonable recovery of one-time program launch costs.
5) Program would use a streamlined auto enrollment protocol in partnership with NC DHHS to enroll Tier 1-3 income verified customers. Persons qualified for certain income eligible programs within the preceding 18 months would be automatically enrolled. Programs might include CIP, LIEAP, LIWAP and/or Medicaid.
6) Participants would be provided the opportunity to apply for applicable and free EE and Weatherization programs where available.
7) Program participants would also be targeted for weatherization and EE programs.

Program Objective: Reduce electric energy burden to no more than 5% for persons at or below 150% of FPL with three assistance Tiers: Tier 1, 0-50% FPL, Tier 2, 51-100% FPL, and Tier 3, 101% - 150% FPL with the highest level of assistance to Tier 1 and lowest level to Tier 3.

Target Participants: Residential customers at or below 150% FPL that are verified to meet certain Federal program income eligibility requirements.

Program Administration: Duke Energy with 3rd party administer and DHHS support.

Eligibility Criteria: As referenced above.

Success Metrics: Metrics for program evaluation would be developed.

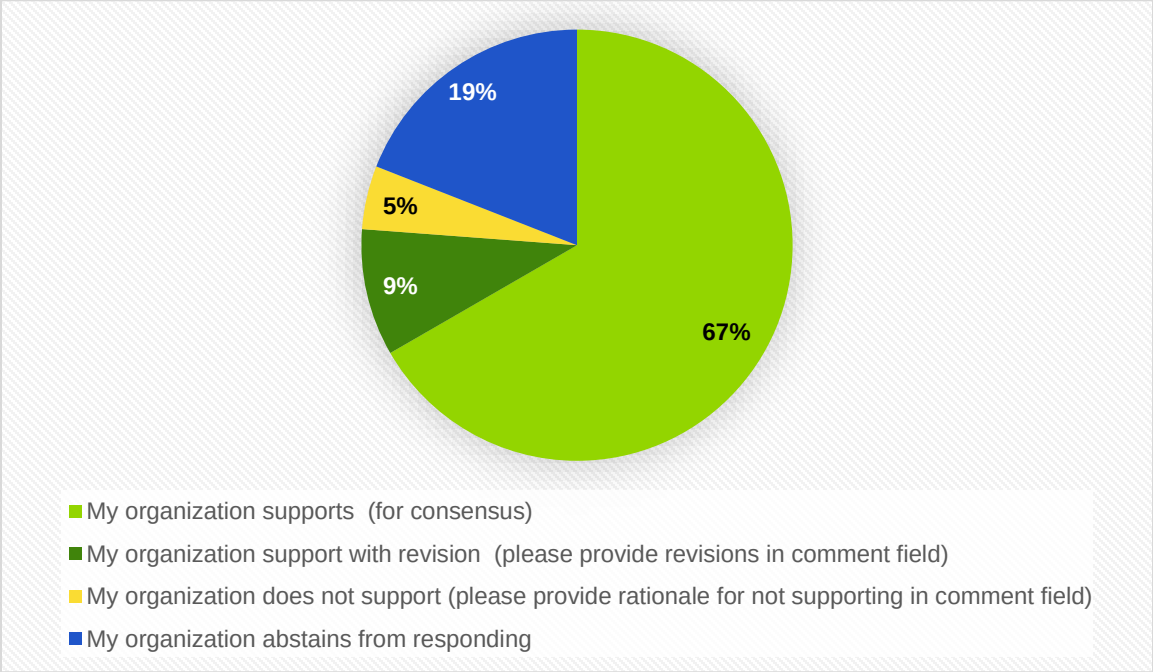
Program Partners: DHHS

Additional Information: For more information contact Al Ripley (919) 274-8245 al@ncjustice.org

OFFICIAL COPY
Sep 26 2023

Proposal 10 - Comprehensive Definition of Affordability and Develop Metrics and Methodologies for Assessing and Monitoring the Relative Affordability of Electric Service

Assessment Results:



Comments from Assessment:

"This proposal is not a mitigation program; it seeks to define affordability for purposes of further developing programs to mitigate conditions related to affordability." **- Public Staff of the North Carolina Utilities Commission**

"The statistical analysis included predictors for many but not all of the factors proposed for the definition of affordability in Proposal 10, and generally, all were significant in predicting the likelihood of being in arrears, receiving a 24-hour notice, and disconnections (excepting home value for disconnections). This suggests complex relationships between sociodemographic, home attributes, neighborhood characteristics, and energy usage. Capturing this complexity in reported metrics over time is supported by the findings of the statistical analysis." **– Nicholas Institute**

"The Companies support the North Carolina Utilities Commission opening an affordability docket similar to the process that the California Public Utilities Commission ordered to evaluate affordability for their regulated utilities." **– Duke Energy**

OFFICIAL COPY

Sep 26 2023

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Adopt a Comprehensive Definition of Affordability and Develop Metrics and Methodologies for Assessing and Monitoring the Relative Affordability of Electric Service

Program Description: Until the Low-Income Affordability Collaborative was initiated, and Duke Energy began analyzing customer data related to energy consumption and costs, income, demographics, arrearages, disconnections and other factors, very little information or data was available to understand the scale and depth of affordability challenges facing the Companies' low-income residential customers. Thanks to that analysis we now have a deeper understanding of who is impacted by those challenges as well as the socioeconomic, housing and other factors that are contributing to those challenges. However, it is critical to both have a more comprehensive definition of affordability as well as metrics that can be used to more accurately assess affordability on the household level and track changes in those metrics over time as new programs are developed and implemented. The proposed program would adopt the California Public Utilities Commission's (CPUC's) definition of affordability along with the three metrics the CPUC adopted for annually measuring and monitoring affordability. The adopted definition is as follows: "the degree to which a representative household is able to pay for an essential utility service charge, given its socioeconomic status. A "representative household," rather than households in general, recognizes that households will have a wide variety of experiences that cannot be perfectly captured by depicting a single household. "Essential utility service charge" refers to the costs borne by a representative household for the quantity of utility service required to enable a ratepayer's health, safety, and full participation in society. "Socioeconomic status" refers to the social and economic standing of a given household." The three metrics the CPUC has adopted are: (1) the Affordability Ratio, which "quantifies the percentage of a representative household's income that would be used to pay for an essential utility service, after non-discretionary expenses such as housing and other essential utility service charges are deducted from the household's income"; (2) the Hours at Minimum Wage, which "quantifies the hours of earned employment at the city minimum wage necessary for a household to pay for essential utility service charges"; and, (3) the Socioeconomic Vulnerability Index, which "represents the relative socioeconomic standing of census tracts, referred to as communities, in terms of poverty, unemployment, educational attainment, linguistic isolation, and percentage of income spent on housing," and as such "considers how a rate change may affect one community's ability to pay more than another's." Maps, data and annual reports should be produced and made public.

Program Objective: Adopting a comprehensive definition of affordability of electric service, along with appropriate metrics for measuring and monitoring changes to affordability over time, will benefit low-income customers by enabling utilities to appropriately target affordability programs to the customers and communities that struggle the most with electric bills, and to assess the impact of those programs in terms of improving the affordability of electric service.

Target Participants: All low-income customers that struggle with affording electric service, and more specifically, the customers and communities that struggle the most (assuming that those customers are prioritized).

OFFICIAL COPY
Sep 26 2023

Program Administration: This program could be administered by the Companies, with oversight by the NC Utilities Commission and/or Public Staff. Alternatively, it could be administered by a third-party vendor in partnership with the Companies as well as local community action/weatherization agencies and/or Departments of Social Services.

Eligibility Criteria: N/A

Success Metrics: The adoption of the CPUC's definition of affordability and affordability metrics and successful implementation and use of those metrics in reducing/alleviating affordability challenges and associated impacts.

Program Partners: See language about program administration. Additional partners could be low-income and clean energy advocates, housing agencies and advocates, academic research institutions, etc.

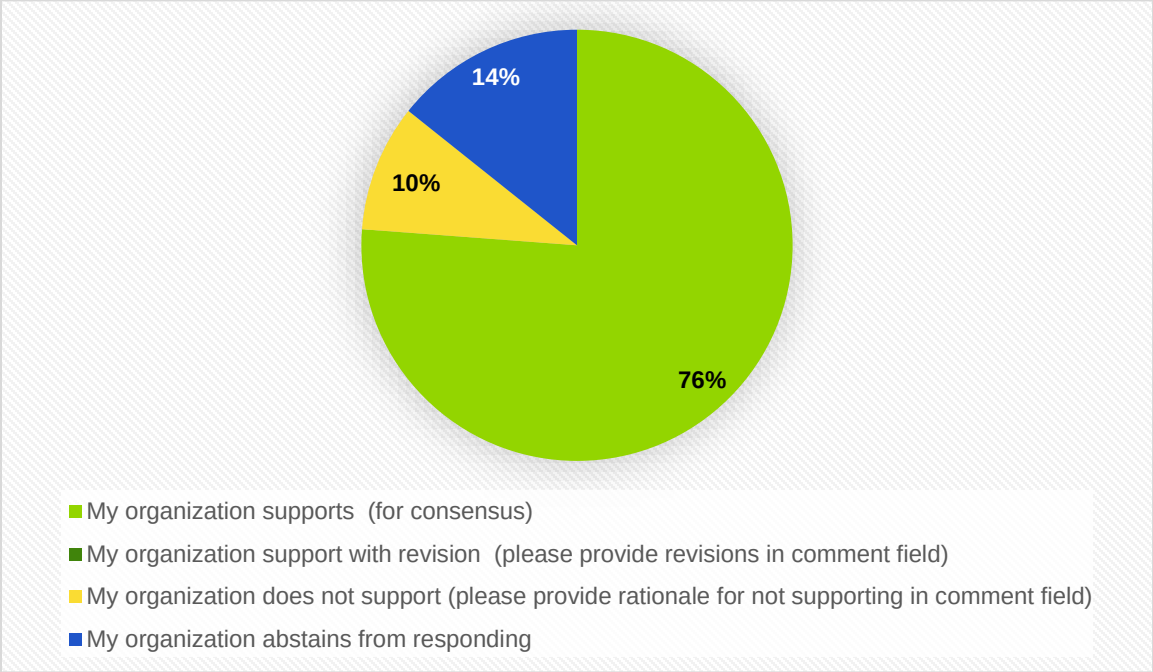
Additional Information: As noted, the CPUC has already adopted the definition and metrics proposed here and requires annual reporting that is made available to the public. No similar program has yet been proposed in North Carolina, with the exception of numerous proposals to require the Companies to provide monthly, zip-code level reports on customer energy use, arrearages, disconnections for non-pay, etc. We don't foresee any regulatory or policy barriers that would need to be addressed. More information about the CPUC Affordability Rulemaking can be found here: https://www.cpuc.ca.gov/industries-and-topics/electrical-energy/affordability

For more information contact Rory McIlmoil (828)278-4558 rory@appvoices.org

OFFICIAL COPY
Sep 26 2023

Proposal 11 - Prioritized Marketing and Distribution LI Funds

Assessment Results:



Comments from Assessment:

"All low-income customers should be eligible for low-income programs and initiatives. There does not appear to be an EE component tied to the assistance sought in this program." **- Public Staff of the North Carolina Utilities Commission**

"The findings of the statistical analysis provide support for prioritizing outreach to based on sociodemographics and electric burden." **– Nicholas Institute**

"Carving our communities for distribution of funding could negatively more rural communities/households." **– Rowan Helping Ministries**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Prioritized Marketing and Distribution of Low-Income Funds

Program Description: This recommendation could work in combination with or independently of recommendation LIAC PP011. Recognizing that affordability challenges and impacts are

OFFICIAL COPY
Sep 26 2023

experienced more acutely by some households and communities than others, there is a need to ensure that low-income funds and other support are prioritized in a manner that has the greatest impact for those most affected and addresses, to the extent practicable, certain disparities that were exposed as a result of the Companies' analysis. For example, the analytics show that African American households served by the Companies experience the highest rate of meeting the Companies' arrears definition (33% of all households, compared to the average of approximately 16% for all households) as well as the highest rate of disconnections for non-pay (8% compared to 3.9%). Rental, multifamily, mobile home and low-value households experienced similar disparities. In summary, the marketing and distribution of low-income funds and programs should prioritize the customers that experience the highest rate of arrearages and disconnections for non-pay.

Program Objective: Prioritizing and targeting program funds to households and communities that disproportionately experience affordability challenges and impacts.

Target Participants: Low-income households and communities that disproportionately experience affordability challenges and impacts.

Program Administration: This program could be administered by the Companies, with oversight by the NC Utilities Commission and/or Public Staff. Alternatively, it could be administered by a third-party vendor in partnership with the Companies as well as local community action/weatherization agencies and/or Departments of Social Services.

Eligibility Criteria: N/A

Success Metrics: The adoption of the CPUC's definition of affordability and affordability metrics and successful implementation and use of those metrics in reducing/alleviating affordability challenges and associated impacts for priority communities would be helpful for this new recommendation. In the absence of that, ongoing analysis of customer data as was performed for the Low-Income Affordability Collaborative could achieve the same goal.

Program Partners: See language about program administration. Additional partners could be low-income and clean energy advocates, housing agencies and advocates, academic research institutions, etc.

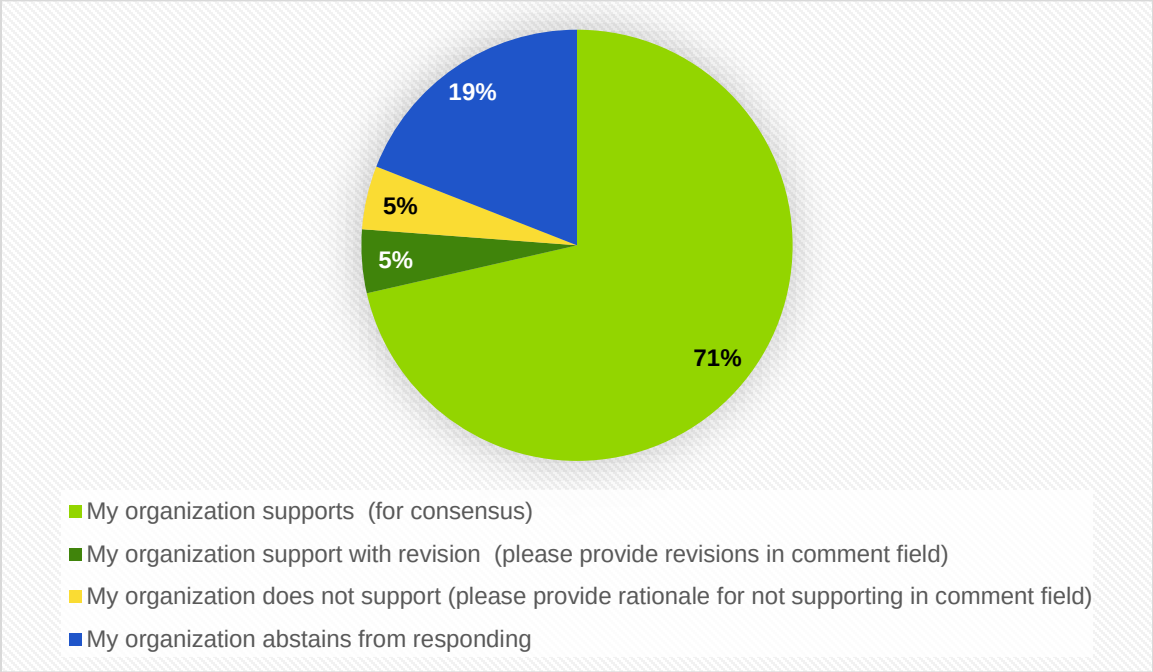
Additional Information: We don't foresee any regulatory or policy barriers that would need to be addressed.

For more information contact Rory McIlmoil (828)278-4558 rory@appvoices.org

OFFICIAL COPY
Sep 26 2023

Proposal 12 - Required Credit and Collections Data Reporting

Assessment Results:



Comments from Assessment:

"These data points could provide meaningful value and may be appropriate as one of the metrics established in the next Duke rate cases." **- Public Staff of the North Carolina Utilities Commission**

"The Companies support the supporting of aggregated data pending it meets the required requirements to keep information confidential. If the NCUC approves the reporting of zip code level data, the requirements should align with a NCUC decision in the pending Rulemaking filed in Docket No. E-100, Sub 161." **– Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Required Reporting of Key Credit and Collections Data by NCUC Regulated Utilities

Program Description: The challenges posed by the Covid-19 crisis have heightened the importance of sustained, affordable access to essential home energy service for all households

OFFICIAL COPY
Sep 26 2023

in NC and across the nation. Yet, there is currently only limited capacity and opportunity in NC to gain a clear, data-driven understanding of the number of households that lose access to home energy services and otherwise struggle with utility affordability and security. Without the data, home energy affordability challenges and their often-dire consequences remain invisible, and the effectiveness of utility credit and collections practices cannot be assessed. Further, development and implementation of effective programs and policies to address access and affordability challenges is thwarted by lack of data. There is a pressing need to step up utility collection and public reporting of data reflecting service disconnections and restorations, as well as other measures of home energy security.

The following “key Data Points” would be required for monthly reporting by zip code:

- Number of customers,
- Dollar amount billed,
- Number of customers charged a late payment fee,
- Dollar value of late fees collected,
- Number of customers with an arrearage balance by vintage
    - 60 – 90 days
    - 90+ days,
- Dollar value of arrearages by vintage
    - 60 – 90 days
    - 90+ days
- Number of disconnection notices sent
- Number of disconnections for nonpayment
- Number of service restorations after disconnection for nonpayment
- Average duration of disconnection
- Dollar value of level of security deposits collected
- Number of security deposits collected,
- Number of new deferred payment agreements entered into
- Average repayment term of new deferred payment agreements
- Successfully completed deferred payment agreements, and
- Average repayment term of payment agreements.

Program Objective: Requiring the sharing of certain aggregated utility data in NC to gain a clear, data-driven understanding of the number of households that lose access to home energy services and otherwise struggle with utility affordability and security will provide a meaningful opportunity to utilize this data to improve programs and services to residential rate payers that are low-income.

Target Participants: Low-income residential customers.

Program Administration: Utility Companies.

Eligibility Criteria: N/A

Success Metrics: This proposal would actually help provided clearer metrics for accessing the impacts of all programs intended to assist customers that are low-income.

Program Partners: N/A

OFFICIAL COPY

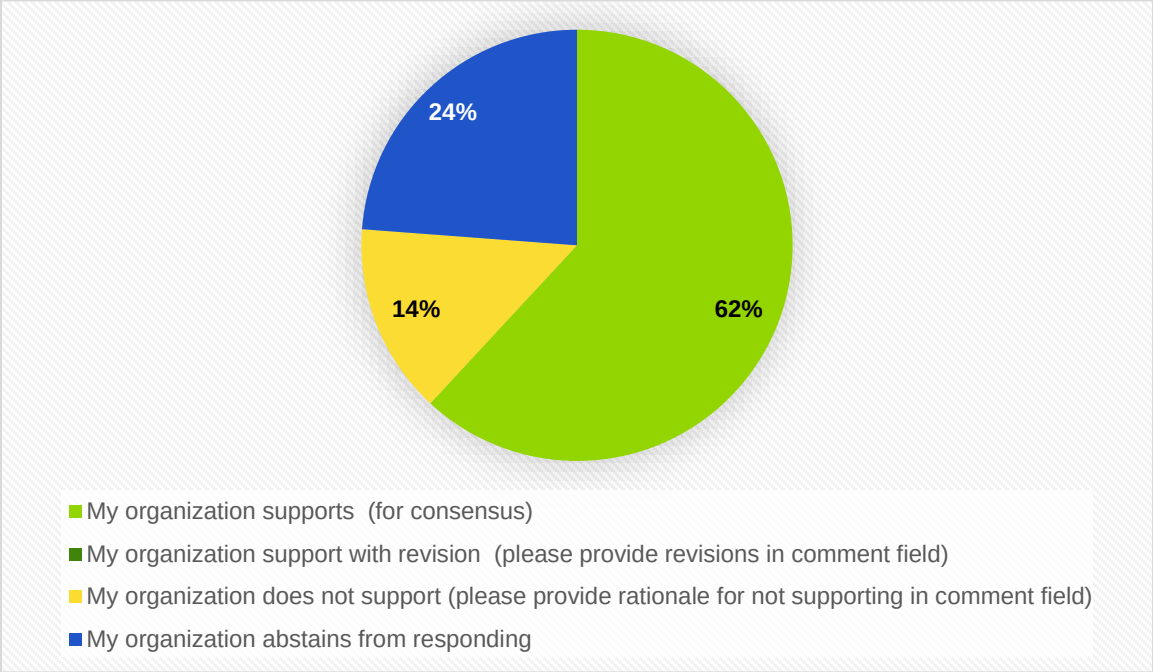
Sep 26 2023

Additional Information: For additional information contact Al Ripley (919) 274-8245 al@ncjustice.org

OFFICIAL COPY
Sep 26 2023

Proposal 13 - Minimum Bill Pilot Program

Assessment Results:



Comments from Assessment:

"This program does not follow cost of service principles. Not a mitigation program." **- Public Staff of the North Carolina Utilities Commission**

"Proposal doesn't explain how this program will be funded. Need more information on how the utility is expected to recover costs when usage that exceeds the minimum payment." **– Dominion**

"The statistical analysis findings showed that households with higher winter and summer peak impact were more likely to be in arrears and receive 24-hour notifications. Those households at the highest categories of impact were also more likely to be disconnected." **– Nicholas Institute**

"The Companies do not support the proposed minimum bill pilot. Overall, the Companies support minimum bill as a rate design tool similar to minimum bill rate design offered by Duke Energy regulated utilities in South Carolina and Florida." **– Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

OFFICIAL COPY
Sep 26 2023

Program Name: Minimum Bill Pilot Program

Program Description: Historically, Duke Energy has had a two-part rate for residential customers: (1) a volumetric, or per kilowatt hour rate; and (2) a fixed, customer charge, currently set to $14.00 per month. As part of its Order establishing the Low-Income Affordability Collaborative, the Commission asked whether a minimum bill concept would be appropriate as a substitute for fixed monthly charges. To explore this minimum bill rate design, Duke Energy will offer customers who enroll in bill payment assistance programs and customers that enroll in any low-income energy efficiency or any tariffed on-bill financing program a minimum bill option. Under the minimum bill option, participating customers would owe a minimum of about $14.00 per month, regardless of usage, and the prior $14.00 customer charge would be removed from the bill and folded into the volumetric rate. This would result in an increase of about 1.27 cents/kWh, increasing the value of any energy efficiency investments and providing bill savings for all customers who use less than about 1,100 kWh/month. Any customers who consume more than 1,250 kWh/month and may face an increase in their monthly bill but are enrolled in a discount rate or bill-payment assistance program would be protected from being harmed from the risk of bill increases from the incremental increase in the volumetric rate.

Program Objective: Reduce the bills of low-usage, low-income customers, increase the value of all energy efficiency programs for those customers, experiment with the minimum bill approach, while guaranteeing the same monthly minimum bill that the utility expects from the basic customer charge. Gain experience with the minimum bill approach and consider expanding to all residential customers.

Target Participants: Customers who participate in any (1) bill-payment assistance or discount programs; (2) any income-eligible energy efficiency programs; and (3) any future tariffed on-bill programs for financing energy efficiency.

Program Administration: Duke Energy Carolinas and Duke Energy Progress

Eligibility Criteria: Customers who meet the income-qualified criteria for Duke's low-income energy efficiency programs, customers who participate in any bill-payment assistance or discount programs, and customers who participate in on-bill financing programs.

Success Metrics: Increase the level low-income customer participation and energy / bill savings.

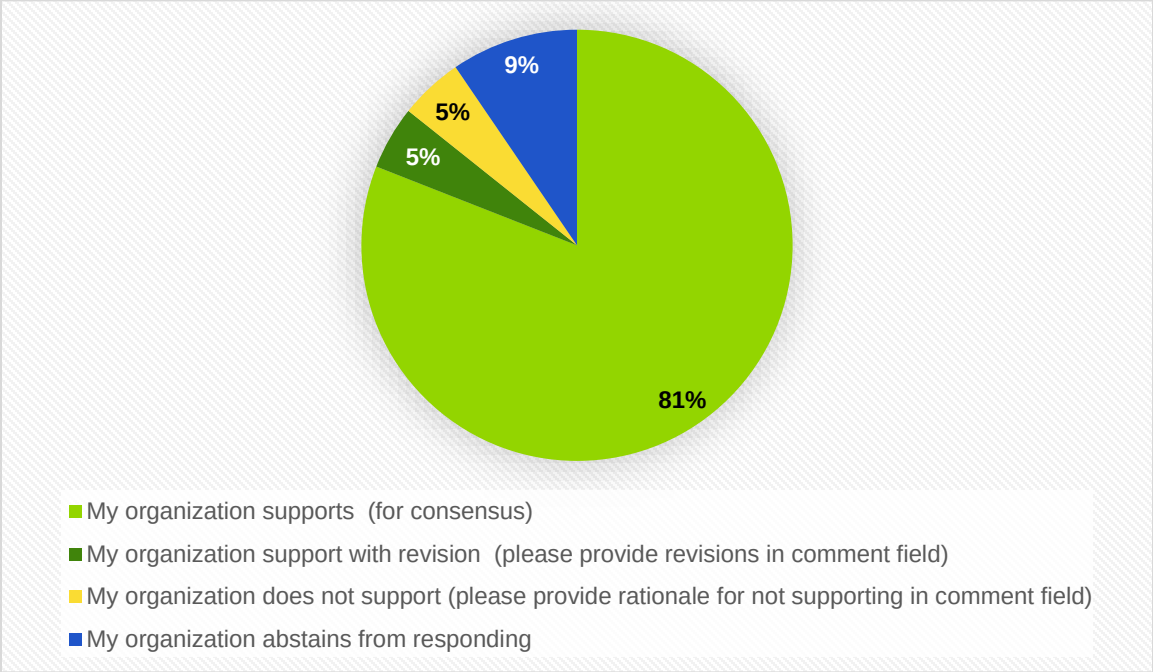
Program Partners: N/A

Additional Information: For more information contact David Neal (919) 967-1450 dneal@selcnc.org

OFFICIAL COPY
Sep 26 2023

Proposal 14 - Voluntary Wx, EE, UR Partnership Forum

Assessment Results:



Comments from Assessment:

"This proposal would duplicate initiatives of the State Energy Office and thus is unnecessary." **- Public Staff of the North Carolina Utilities Commission**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Voluntary Weatherization, EE, UR Partnership Forum co-led by NC DEQ and the NCUC

Program Description: This proposal recommends the creation of a voluntary forum where leaders from DEQ, the NCUC, the NC Housing Finance Agency, regulated utilities, and other stakeholders, would periodically meet to coordinate the operation of respective EE, Urgent Repair, and Weatherization programs.

The NC Department of Environmental Quality (DEQ) is responsible for administering the Weatherization Assistance Programs (WAP) in North Carolina. The North Carolina Housing Finance Agency runs an Urgent Repair Program. The NC Utility Commission oversees certain

OFFICIAL COPY
Sep 26 2023

energy efficiency programs in NC and some utilities maintain programs that address certain weatherization and urgent repair / health and safety dynamics for residential ratepayers

The goal of the Forum would be to create new ways that operators of these respective programs could meet the needs of low-income residential customers through better coordination of program design, administration, and implementation.

Program Objective: The goal of the Forum would be to create new ways that operators of these respective programs could meet the needs of low-income residential customers through better coordination of program design, administration, and implementation.

Target Participants: Low-income residential customers.

Program Administration: NC DEG and NCUC

Eligibility Criteria: N/A

Success Metrics: N/A

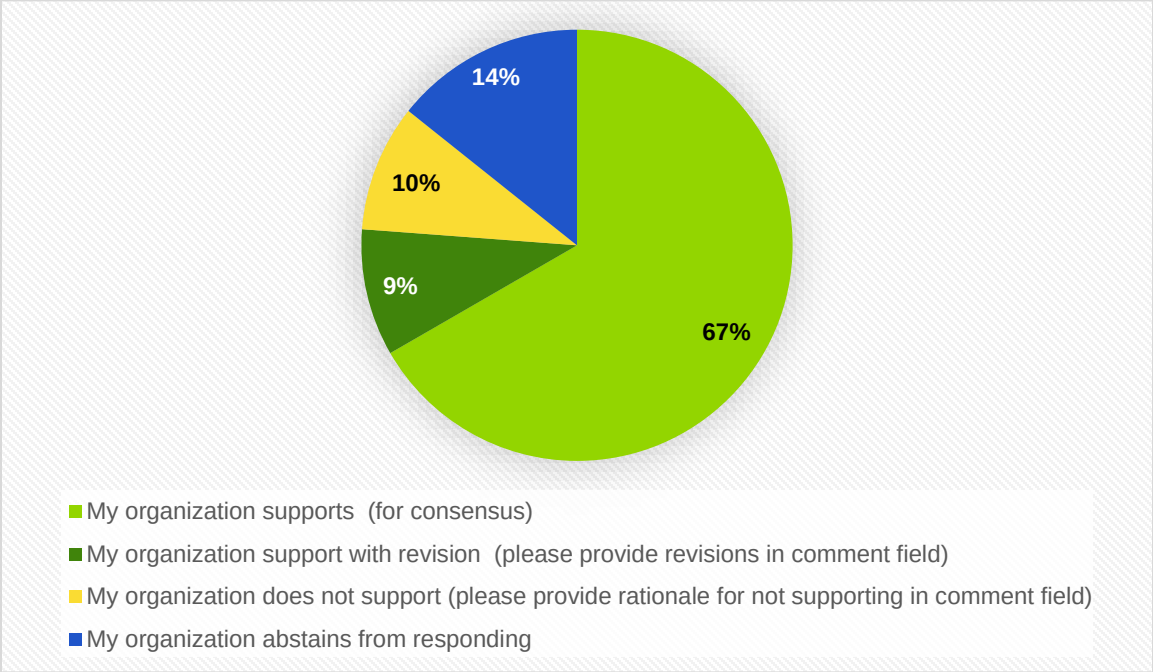
Program Partners: N/A

Additional Information: For additional information contact Al Ripley (919) 274-8245 al@ncjustice.org

OFFICIAL COPY
Sep 26 2023

Proposal 15 - Duke Energy Winter Moratorium

Assessment Results:



Comments from Assessment:

"Automatically enrolling customers should be done with caution. If a family cannot keep up with their payment, stopping the disconnection automatically doesn't make it any easier for them to afford electricity of course. Alternatives are -- work with the person to pay as much as they can each month to minimize debt build up, encourage them to apply for all the available funds so as not to lose them, help the person realize they can't afford to stay where they are and help them move in with a family member, friend or in some cases a shelter can be their best option (some approaches we consider at Crisis Assistance Ministry.) Each of these could be more empowering than encouraging a person to continue amassing debt, even if there are 24 months to pay it off or inadvertently encouraging them not to seek available winter aid. If we go this route we should send a notice that they will not be disconnected in certain temperatures but clearly stating that not only is the bill accumulating but that there are places to call for housing counseling to explore alternative options (including budget counseling if applicable) or financial assistance." **– Crisis Assistance Ministry**

"This would be best suited as a pilot program, specific – at least initially – to the winter season only. The Commission should consider expanding any potential pilot to all IOUs and LDCs." **- Public Staff of the North Carolina Utilities Commission**

OFFICIAL COPY
Sep 26 2023

"Our observation is that the COVID moratorium did nothing to help our clients but saddled them with higher bills and payment arrangements they could not manage once the bills came due. It created a debt tsunami." **– Rowan Helping Ministries**

"The Companies support enrolling LIEAP and CIP recipients in a Winter Moratorium that aligns with the timeframe detailed in NCUC Rule 12-11 from November 1 – March 31. LIEAP and CIP recipients would be automatically enrolled in a 6-month payment arrangement at the end of the moratorium. The Companies do not support a summer moratorium or automated referral for arrears greater than $550. The Company will request to seek cost recover of any debts that result to uncollectible charges; similar to the existing process to collect uncollectible charges. The enrollment of LIEAP and CIP in a Winter Moratorium is dependent up receiving the required information from the NCDHHS." **– Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Revisions to the Duke Energy Winter Moratorium

Program Description: During part of the COVID pandemic, and to the credit of the Utility Commission, the Public Staff, the NC Attorney General, and Duke Energy, what is commonly known as the Duke Energy Winter Moratorium (WM) was expanded to include LIEAP, CIP, and NC Hope recipients. The modified WM covered three of Duke's Companies; Duke DEC, Duke DEP, and Piedmont Natural Gas and covered 114,000 residential accounts.

This proposal would permanently alter the Winter Moratorium by adding the following provisions:

1) Automatically enroll CIP and LIEAP recipients in the moratorium

2) A moratorium against disconnections would be provided to eligible customers provided arrearages remain below $550.

3) An automatic CIP assistance referral would be triggered when arrears reach $550.

4) A 24-month repayment plan for any arrearage balances that remain upon the conclusion of the moratorium with a provision allowing for 2 missed payments per year during the repayment period.

Consider adding a Summer Moratorium with the same provisions for the months of July and August and/or an extreme weather moratorium that prohibits non-pay disconnections and requires temporary reconnections whenever temperature or weather conditions would lead to an undue risk of unsafe conditions.

Program Objective: To protect low-income eligible customers from disconnection during extreme weather conditions.

Target Participants: Low-income residential customers that receive LIEAP and CIP assistance.

OFFICIAL COPY
Sep 26 2023

Program Administration: Utility Companies.

Eligibility Criteria: N/A

Success Metrics: Reduction in disconnections during moratorium months.

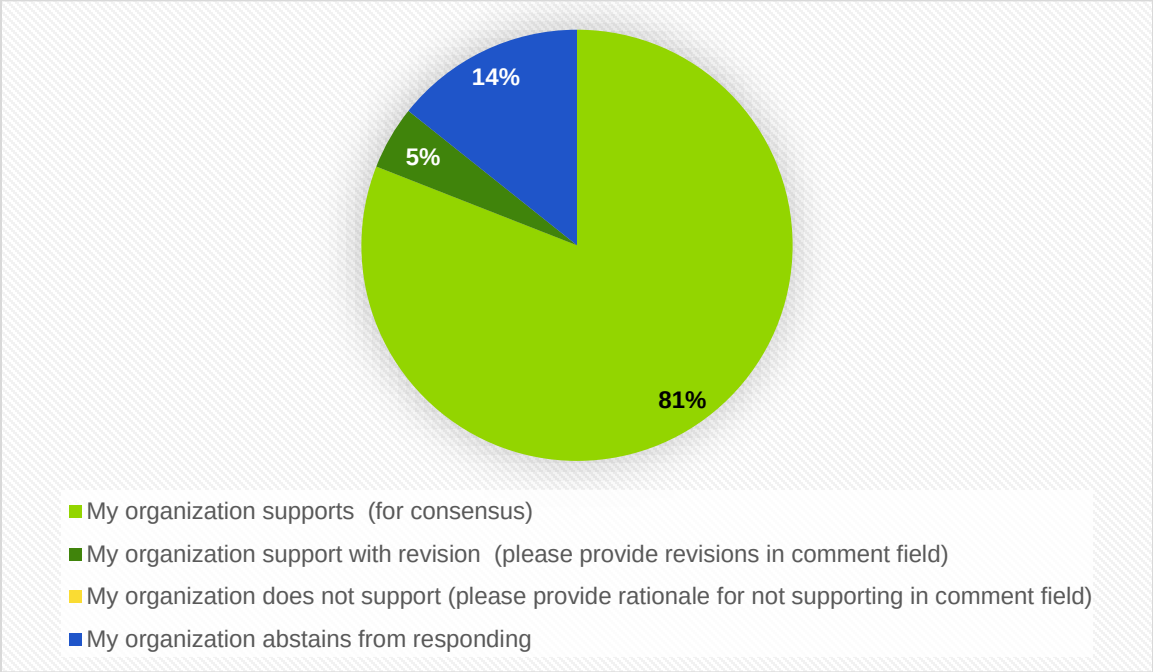
Program Partners: N/A

Additional Information: For additional information contact Al Ripley (919) 274-8245 al@ncjustice.org

OFFICIAL COPY
Sep 26 2023

Proposal 16 - Re-examine Regulatory Consumer Protection

Assessment Results:



Comments from Assessment:

"The Companies support the review of the existing regulatory consumer protections detailed in NCUC Rule R12-11. If the output of the review requires technical system changes, the Companies request the required timeframe to update impacted systems which could be 12 months. In addition, the Companies will seek cost recovery of costs associated with required technical system changes and costs incurred as a result of any policy/rule changes." **– Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: NCUC Rulemaking to Re-examine the Effectiveness of the Regulatory Consumer Protection Structure

Program Description: In light of the sweeping economic and technological transformation of the electric power sector, and with the prospect of dramatically increased reliance on electricity service in the face of electrification and decarbonization efforts, low-income and historically

OFFICIAL COPY
Sep 26 2023

disadvantaged households and communities are particularly reliant upon effective utility consumer protections. However, many of the existing state consumer protection frameworks are no longer effective in providing consumers with reasonable security from loss of vital service. Today's energy price levels and critical importance of service may not have been contemplated when original regulations were adopted decades ago. As evidenced LIAC assessments of residential customer involuntary service disconnections, existing North Carolina consumer protections have proven inadequate to provide an acceptable level of household energy security and uninterrupted access to vital service. Meantime, the necessity of electricity service is increasing for a wider range of purposes — school, work, building end uses, and transportation. When consumer protections are inadequate and energy security is compromised, the protections for low-income households actually work counter to the goals and objectives of federal and state payment assistance and energy efficiency programs. For example, when a state LIHEAP office scrambles to cobble together the resources necessary to keep a client from losing utility service, those efforts may be undermined by an unreasonable payment plan or onerous security deposit and late payment fee provisions. What is needed now is a re-examination of existing utility consumer protections to ensure that vulnerable customers who demonstrate good faith efforts to make affordable utility payments are protected from loss or degradation of service.

Program Objective: The purpose of this proposal is to recommend that the North Carolina Utility Commission initiate a Rulemaking proceeding to re-examine existing rules and regulations regarding provision and denial of electric service; provision of consumer information; security deposits; late payment fees; disconnection, termination and restoration of service; establishment and terms of payment plans, and resolution of disputes between customers and utility companies.

Target Participants: The intent of this proposal is to recommend a Rulemaking proceeding focused on consumer protections applicable to residential utility service customers.

Program Administration: N/A

Eligibility Criteria: To be determined by outcome of a prospective Rulemaking.

Success Metrics: Increase the level low-income access to and retention of necessary electric utility service.

Program Partners: N/A

Additional Information: For additional information, including summaries of state utility consumer protections and service delivery rules, see National Consumer Law Center, Access to Utility Service, (6th ed. 2018), Appx. A.1–A.4 updated at www.nclc.org/library.

For more information contact Al Ripley (919) 274-8245 al@ncjustice.org

OFFICIAL COPY
Sep 26 2023

~~Proposal 17 - Help My House Model~~ (Redirected to Tariff Working Group)

Name and Organization: Christina Cress, Bailey & Dixon, LLP

Program Name: Help My House Model (based on South Carolina program)

Program Description:

“The results of the 'Help My House' pilot [in South Carolina] were extremely positive. Billing data on the 125 participating homes indicates a 34 percent reduction in energy use (1.35 million kWh) in the year after the energy efficiency improvements were completed, an average savings of $288 per home after loan payments."

https://www.eesi.org/files/HelpMyHouseBrochure_June2013.pdf

https://www.eesi.org/files/HelpMyHouseFinalSummaryReport_June2013.pdf

Program Objective: Give LMI ratepayers the opportunity to improve their homes and make them more energy efficient while also reducing their monthly electric bills through low-cost on-bill financing.
https://www.eesi.org/obf/case-study/helpmyhouse

Target Participants: “Rural communities in South Carolina have a relatively high percentage of older, less efficient homes and low-income residents, which for some households means spending more than 70 percent of their income on energy during peak heating and cooling months. In addition to having poor insulation and weatherization, many rural homes still use electric resistance heating, which is notoriously inefficient and costly. These homes represent some of the simplest and most cost-effective opportunities to save energy in the state.”

Program Administration: Utility would proactively solicit program participation from households who meet certain threshold energy usage/burden and income criteria. An audit team comprised of utility and third-party independent administrator would solicit additional information to verify eligibility. The Public Staff would also have audit power. Quarterly reports could be submitted to the NCUC to allow it and the Public Staff (and any intervenors) to track progress. Seek federal grant and/or loan-funding to pay for costs, with any remaining administrative costs recovered over the life of the on-bill financing terms from program participants. Lost revenues would be recovered through EE/DSM rider.

Eligibility Criteria: Electric heat eligibility

Success Metrics: ""The HMH pilot program was conceived and designed to determine the cost-effectiveness of energy efficiency measures and whole home retrofits. The pilot defined cost-effectiveness as annual energy savings exceeding annual loan payments. Measures must be cost-effective in order for an OBF program to be viable. Co-ops are also concerned about the effect of whole house weatherization on system peak. This analysis examines energy savings, demand savings and the value of each of these to the participants and to the co-ops.""

Program Partners: USDOE and other federal/state government agencies, possible NGOs, Public Staff, independent auditor/administrator

OFFICIAL COPY
Sep 26 2023

Additional Information: Yes, this program was successful in South Carolina. In addition, H951 directs the NCUC to evaluate on-bill financing options for energy efficiency measures, so I think this kind of program is ripe for consideration/potential regulatory approval. If it could be paired with LMI initiatives, all the better.

""The results of the ""Help My House"" pilot were extremely positive. Billing data on the 125 participating homes indicates a 34 percent reduction in energy use (1.35 million kWh) in the year after the energy efficiency improvements were completed, an average savings of $288 per home after loan payments.

The low-interest 10-year loans (which averaged just under $7,700) are on track for a simple payback of 6.6 years, nearly identical to projections made at the time the loans were made. The average participating home is expected to save a net of more than $8,500 over 15 years. The pilot applied a comprehensive ""whole house"" approach, in which all of the energy efficiency measures were evaluated as part of the same system. Participating homes received a combination of air sealing, duct repair, HVAC upgrades, and insulation improvements. More than 95 percent of participants reported that they were more satisfied with their co-op after participating in the pilot.""

OFFICIAL COPY
Sep 26 2023

~~Proposal 18 - Smart $aver Low Income Multi-Family Retrofit~~ (see P23)

Name and Organization: Christina Cress, Bailey & Dixon, LLP

Program Name: Smart $aver Low Income Multi-Family Retrofit Program (Smart $aver LIMP)

Program Description: Smart $aver LIMP projects would involve efficiency upgrades for buildings with currently high energy consumption, specifically for lighting, appliances, weatherization, heating systems, controls, domestic hot water, and HVAC/mechanical systems. Eligible measures under the LIMRP would be directly installed at no charge to the low-income customer, and would include: (1) comprehensive energy assessment, including customer education; (2) weatherization, including wall, attic, floor, and pipe and duct insulation, as well as air sealing (caulking, weather stripping, door and window hardware, window parting beads and stops); (3) programmable thermostats; (4) blower door analysis; (5) heating system tune-up, repair, and replacement; (6) low-flow showerheads and faucet aerators; (7) minor building repairs, including glass replacement and adjustment of window meeting rails; (8) replacement of inefficient appliances, including refrigerators and clothes washers; (9) installation of compact fluorescent lamps (CFLs) and LEDs; (9) health and safety measures such as wire inspection, ventilation, and the DOE lead-free protocol; and (10) multi-family-building-specific measures, such as common area lighting fixtures, HVAC motors and controls and heating systems.

Program Objective: To provide cost-effective energy efficiency improvements to multi-family buildings, including nonprofit and public housing authorities. For-profit entities are eligible to apply for funds to improve the energy usage of their buildings.

Target Participants: 1-4 unit residential buildings where at least 50% of the units are occupied by low-income residents earning at or below 60% of area median income and are high energy users. For single-family dwellings, 50% of occupants at or below 60% of the state median income level.

Program Administration: The utility would provide the primary administrative and functional roles. Potentially a third-party administrator or contractor could oversee the day-to-day operations, including scheduling, assessing and installing eligible measures in income-eligible customers' homes and buildings. The utility (or an entity acting on its behalf) would also be responsible for leveraging other federal and state funding sources to provide the most comprehensive energy efficiency projects possible. The NCUC would have oversight authority to review multi-family projects and ensure utility compliance with best practices, including ensuring cost-effectiveness and managing overall program costs. The NCUC would also have additional oversight authority through the cost-recovery regulatory mechanism set forth in G.S. 62-133.9

Eligibility Criteria: 1-4 unit residential buildings where at least 50% of the units are occupied by low-income residents earning at or below 60% of area median income and are high energy users. For single-family dwellings, 50% of occupants at or below 60% of the state median income level.

Success Metrics: Net Annual Savings (MWh); Net Lifetime Savings (MWh); # of customers participating; CCE ($ per lifetime kWh); annual peak demand savings (summer/winter kW).

OFFICIAL COPY

Sep 26 2023

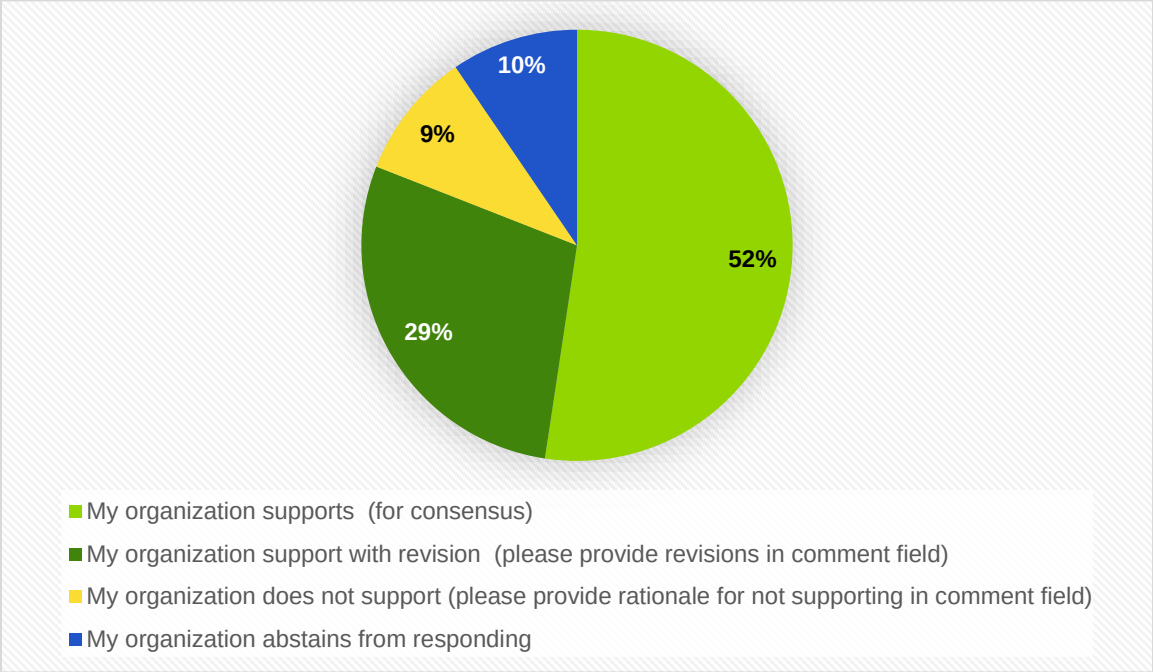
Program Partners: U.S. Department of Energy; U.S. Department of Health and Human Services; North Carolina Department of Health and Human Services; Building Performance Institute (BPI); North American Technician Excellence (NATE)

Additional Information: This program has been successfully implemented in Massachusetts and has received tons of accolades as being an "exemplary" energy efficiency program.

OFFICIAL COPY
Sep 26 2023

Proposal 19 - NC Healthy Homes Initiative

Assessment Results:



Comments from Assessment:

"This is a critically needed program and builds on NCCAA's experience with the BC/BS grant for the Healthy Homes Initiative and the Duke Healthy Home Fund. But it is not clear from the proposal where the funds would come from for this NC HHI. Ratepayer funds have historically been limited to energy efficiency related upgrades. Ideally, healthcare related funds or other government programs could support an initiative like this to improve the health and safety of homes and make them ready for EE upgrades." **– Southern Environmental Law Center (SELC)**

"This program should be funded first with DOE weatherization funds and LIHEAP." **– AARP**

"The program administration should be determined by RFQ. Only non-ratepayer funds should be utilized for health and safety work. Ratepayer funds could be used for EE measures and to reduce cost of service." **- Public Staff of the North Carolina Utilities Commission**

"Scope is focused on healthier home initiative vs removing energy burden via EE initiatives." **– Dominion**

"This is a critically needed program and builds on NCCAA's valuable experience with the BC/BS grant for the Healthy Homes Initiative and the Duke Helping Home Fund. But it is not clear from the proposal where the funds would come from for this NC HHI. Ratepayer funds have historically been limited for energy efficiency related upgrades. Ideally, healthcare funds could

OFFICIAL COPY
Sep 26 2023

be identified to support an initiative like this to improve the health and safety of homes, which would have the added benefit of making them ready for EE upgrades." **– North Carolina Justice Center**

"We support the intent of the program but think there needs to be more discussion about where the funding for this program comes from since that does not seem to have been defined in this proposal." **– North Carolina Sustainable Energy Association**

"We strongly support the establishment of consistent funding for health, safety, and incidental repairs to supplement federal, state, and ratepayer funds for energy efficiency. We know there are potential challenges with regard to use of ratepayer funds for these purposes, but are committed to working through the associated regulatory issues and/or assist in seeking additional funding from other sources." **– Southern Alliance for Clean Energy (SACE)**

"The Companies do not support this proposal as it doesn't have a specific time to the scope of identifying opportunities to address affordability for low-income customers." **– Duke Energy**

Program Proposal Information:

Name and Organization: Detrick Clark, The North Carolina Community Action Association

Program Name: The NC Healthy Homes Initiative (NC HHI)

Program Description: One of the by-products of weatherization programs is the positive impact on health, as outlined in the CDC's HI-5 (Health Impact Interventions in 5 years). But unfortunately, some repairs are ineligible for NC WAP and DEC WX funding, leaving important health-related concerns untouched.
The NC Healthy Homes Initiative will provide families with home repairs that are crucial to improving their overall health. Considering most Americans spend nearly 60 percent (pre-COVID) of their time in their homes, the condition of their homes has a significant impact on their health and overall quality of life. As a result, the condition of one's home plays a vital role in our health. Poor quality and inadequate housing contribute to health problems such as chronic diseases and injuries and can have harmful effects on childhood development. Unfortunately, many of North Carolina's families cannot afford the repairs and home safety updates necessary to protect their physical and mental health.
The NC HHI will help fill these gaps by providing funding to North Carolina's most underserved communities to make those additional, health-centered, repairs for families to increase overall health outcomes. The NC HHI will lean on the expertise of the NCCAA, and its dedicated weatherization service providers to administer this program. If approved, funds will be allocated to NC WAP service providers and non-profit agencies equipped to provide health and safety services and energy efficiency services. The allocations will be determined using Census data, and the number of low-income utility customers represented in each geographical area.

Program Objective: The overall goal of NC HHI is to equip weatherization service providers with the resources needed to ensure NC's most vulnerable families are provided with home repairs that have the greatest impact on their overall health. Through this program, NCCAA will work with partner agencies to treat hidden dangers in the homes of NC's most vulnerable families. The health and safety measures offered are intended to address repairs and adverse

OFFICIAL COPY
Sep 26 2023

home conditions that are grossly perpetuating the underlying root causes of many illnesses. The implementation of this program will not only improve the comfort and the overall health of low-income families but will also provide energy savings for these households and utility providers.

By implementing this program, the following shall be completed for qualified program participants:

1. Conduct an energy audit to identify energy efficiency opportunities in the customer's home;
2. Conduct a Healthy Home Assessment
3. Replacement of carpet with hard surface flooring (Entire home or select rooms that would most improve the health of homeowners)
4. Deep cleaning of home since the removal of the carpet could stir up dust/dirt
5. Interior pest control
6. Air purification
7. Asbestos
8. Accessibility/fall prevention (Interior)
9. Moisture control (Basement and crawl space sealing)
10. Filter change-out and a pre-determined number of additional replacements
11. Carbon monoxide and smoke detectors (installation and/or a battery change out)
12. Install a comprehensive package of electric conservation measures to increase the home's energy efficiency and lower program participants' energy costs;
13. . Provide one-on-one customer education on energy efficiency techniques and measures; and
14. Educate customers on other applicable energy efficiency programs that are available.

The combined spending on measures installed would be capped at $3,500.
NC HHI Service Provider will assess and perform program services for residents whose household income is at or below 200% of the federal poverty level. Service providers will identify families in need, perform eligible health and safety measures, and post-completion audits to ensure all health and safety measures were properly installed.

A goal of the NC HHI is to create healthier and safer environments for NC families. Service providers will be required to gather information on any family member who may suffer from chronic health conditions. This information will be recorded and tracked. Further, service providers would be asked to record client quotes and testimonials.

NCCAA is proposing four options to participate in the NC Healthy Home Initiative.
State Completed Projects - Submit for NC HHI reimbursements after completion of State Weatherization or Refrigerator Replacement Projects. Service Providers would submit their materials and labor summary report, receipts, and a copy of the State Completed Jobs Report. All service providers would be paid based on eligible measures (including labor and materials, and a flat 7% admin fee would be accessed.)

DEC WX/DEP WX (assuming approval) Projects - Submit for NC HHI reimbursements after completion of DEC or DEP WX Projects. Service Providers would submit their materials and

OFFICIAL COPY
Sep 26 2023

labor summary report, and receipts. All service providers would be paid based on eligible measures (including labor and materials, and a flat 7% admin fee accessed.)

The Helping Home Fund (HHF) Projects - Submit for NC HHI reimbursements after completion of HHF Projects. Service Providers would submit their materials and labor summary report, and receipts. All service providers would be paid based on eligible measures (including labor and materials, and a flat 7% admin fee would be accessed.)

Stand-Alone Projects - Submit for NC HHI fixed cost payments after completion of approved health and safety measures. Service Providers must submit invoices for materials and labor detailing the number of installed materials. All service prov

Target Participants: The NC HHI will target program-eligible households with incomes at or below 200 % percent of the federal poverty guidelines or those receiving cash assistance payments under Work First or Supplemental Security Income. Like other low-income-related programs, this program will prioritize assistance to the elderly, individuals with disabilities, and families with children.

Program Administration: "As the lead organization, NCCAA would provide project implementation and overall program oversight. NCCAA will work with Duke Energy and NC WAP service providers to plan, coordinate, and implement a series of comprehensive strategies to address health and safety needs for vulnerable families.

The implementation of this program will allow low-income North Carolinians to experience energy savings, utility bill reductions, and safe, healthy homes. To assist Duke in reducing low-income families' electric burden, and overall health outcomes, NCCAA will focus on high energy users and populations who are most vulnerable.

NC WAP service providers will follow the State's Weatherization Installation Standards or industry-recognized weatherization practices."

Eligibility Criteria: The NC Healthy Home Initiative (NC HHI) will target income-qualified customers state-wide.
Customers will be eligible to participate if:

- They are utility customers with an active account; and
- Household income must be at or below 200% of the Federal Poverty Guidelines.

Each participant would be eligible to receive up to $3,500 in health and safety repairs. All DEC WX, HHF, and NC WAP participants will be auto-enrolled into the NC Healthy Home Initiative. Service Providers will need to submit for payment of qualified measures installed and services performed on the home.

The NC HHI Program will be available to:

- Owner-occupied, single-family residences including condominiums and manufactured homes; mobile homes and
- Renters with owner approval.

OFFICIAL COPY
Sep 26 2023

The NC HHI program will not perform health and safety services on condemned homes, nor perform services on homes that are for sale. For example, if a home is placed for sale while work is in progress, the Service Provider shall end work at the soonest, safe stopping point, and consider the job complete.

Success Metrics: The overall purpose of the program is to help participants reduce their electric burden, improve their health, and provide KWH savings for Duke.

The NC HHI program will build on Duke's existing weatherization and refrigerator replacement platform by allowing families to participate in all three simultaneously. The implementation of this program will allow agencies to provide deeper and more expansive retrofits. Undoubtedly, access to these three programs will have a profound impact on all low-income utility customers.

Drivers of household energy burden

PHYSICAL

- Inefficient and/or poorly maintained HVAC systems
- The heating system and fuel type
- Poor insulation, leaky roofs, and inadequate air sealing
- Inefficient large-scale appliances (e.g., refrigerators, dishwashers) and lighting sources
- Weather extremes that raise the need for heating and cooling

ECONOMIC

- Chronic economic hardship due to persistent low income
- Sudden economic hardship (e.g., severe health event or unemployment)
- Inability or difficulty affording the up-front costs of energy efficiency investments

POLICY

Insufficient or inaccessible policies and programs for bill assistance, weatherization, and energy efficiency for low-income households

Certain utility rate design practices, such as high customer fixed charges, that limit the ability of customers to respond to high bills through energy efficiency or conservation

BEHAVIORAL

- Lack of access to information about bill assistance or energy efficiency programs
- Lack of knowledge about energy conservation measures
- Increased energy use due to age or disability

The implementation of the NC Health Home Initiative would have a significant impact on the well-being of low-income households, utilities, and communities in the following ways.

BENEFIT RECIPIENT: LOW-INCOME PROGRAM RECIPIENTS

OUTCOME: LOWER MONTHLY UTILITY BILLS

- Lower household energy burden and greater disposable income
- Reduced stress and fewer trade-offs between energy and other necessities

- Reduce exposure to risk from utility rate increases

OFFICIAL COPY

Sep 26 2023

OUTCOME: IMPROVEMENTS IN THE EFFICIENCY OF THE HOUSING STOCK

- Improved health and safety and greater household comfort
- Increased property value, more reliable equipment, and lower
- Greater satisfaction with the building/unit and improved household and neighborhood stability

BENEFIT RECIPIENT: UTILITIES AND RATEPAYERS

OUTCOME: DEMAND-SIDE MANAGEMENT (BOTH GAS AND ELECTRIC)

- Avoided excess costs of increased generation, capacity, and transmission investments
- Contribution toward compliance with energy efficiency portfolio standards and other environmental legislation

OUTCOME: COST SAVINGS TO UTILITIES AND RATEPAYERS

- Reduced arrearages and cost of shutoffs, which lowers utility operating costs
- Improved customer service

BENEFIT RECIPIENT: COMMUNITIES

OUTCOME: LOWER ELECTRIC AND GAS DEMAND

- Reduced environmental pollutants and improved public health

OUTCOME: LOWER MONTHLY BILLS DUE TO AVOIDED UTILITY COST

- More money is spent in the local economy due to greater household disposable income, with a higher local multiplier effect
- Poverty alleviation and increased standard of living

OUTCOME: IMPROVEMENTS IN THE EFFICIENCY OF THR HOUSING STOCK

- Local job creation through weatherization programs and energy efficiency providers and trade allies
- Improved quality of life
- Increased property values and preservation of housing stock

Program Partners:

Duke Energy
North Carolina Community Action Association (NCCAA)
North Carolina Weatherization Assistance Service Providers (mostly CACs)
TRC (formerly Lockheed Martin)
North Carolina Weatherization Assistance Program (NCWAP)
NCCAA's current contractor network (HHF, DECWX, and HHI)
Regional Specialty Contractors
Community Development Organizations
Private Weatherization Contractors
Non-profit Agencies
Community Action Agencies (NC's 34-member network)

OFFICIAL COPY
Sep 26 2023

Additional Information: Based on our current experience as the administrator of the BlueCross and BlueShield Healthy Homes Initiative (HHI), we feel there are no regulatory or statutory barriers to implementing this program. NCCAA has successfully managed and administered the Healthy Home Initiative, since 2018. As of March 1st, 2022, the HHI has provided served over 1224 low-income households and 2133 low-income household members. BlueCross and BlueShield of NC provided NCCAA with a $2M grant in November 2018 to serve 56 rural NC counties. Due to the success of the program outcomes, an additional $1M investment by BCBSNC in April of 2020 to expand to 94 rural counties. The HHI is served by 24 participating community action agencies.

The Healthy Home Initiative Program provides improvements to make homes healthier and safer. This funding is typically leveraged with weatherization funds, or improvements can be made to income-qualified homes that may not receive weatherization services. As of March 1st, 1,224 homes have been impacted and over 2133 household members in 86 NC counties have benefited from this program. In Q4 of 2021, the HHI program completed 148 new projects, and $119K was used to complete these projects. Over 65% of those homes in Q4 had one or more family members who suffer from chronic health conditions.

Community Impact: $1,978,395.25 (As of 3.1.2022)
Number of Completed Projects/Homes Served: 1224
Number of Household Members Impacted: 2133 (Seniors: 1009, Adults: 747, Children: 377)
Number of Homeowners Helped: 1207

Health Outcomes
Overall, the program has served over 700 (58%) households that were suffering from one or more household members were suffering from one or more of the following chronic illnesses:

- Diabetes
- COPD
- Asthma
- Musculoskeletal
- Heart Disease
- Cancer
- Epilepsy
- Mental Health
- Alzheimer’s
- Arthritis
- Stroke
- Blind

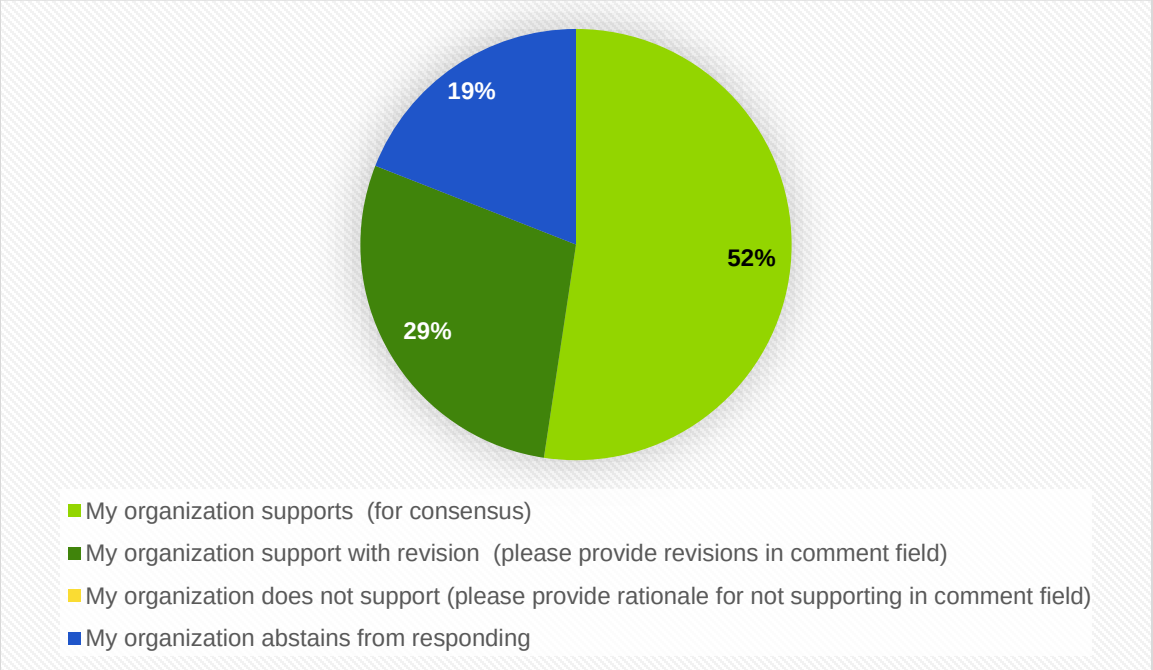
Demographics Served through the BCBC HHI Program

- 50% of households served were African American
- 46% White
- 1% Hispanic
- 2% Native American
- 1% Other (Native American, Asian, and Indian)

OFFICIAL COPY
Sep 26 2023

Proposal 20 - DEP Weatherization Program

Assessment Results:



Comments from Assessment:

"For the same reasons that we support LIAC Program Proposal Number 2, which calls for a DEP Weatherization Program modeled after the DEC Weatherization Program, we also support the substance of this Proposal (No. 20). Even though NCCAA has unmatched experience administering this kind of program (as it does the DEC Weatherization Program, Helping Home Fund, and HHI), it is our understanding that Duke Energy would need to go through an RFP process to identify the program administrator and that it may be premature to assign that role to NCCAA at this time." **– Southern Environmental Law Center (SELC)**

"This is not a suggested revision, it's a comment overall on this as well as the other weatherization related proposal/s all of which we do support. It's also somewhat similar to the concept in #23. We operate in a space at Crisis Assistance Ministry where over 15,000 renting households annually need help with utilities and/or rent (often times it's rent one month and utilities the next month when juggling on a limited income.) Less than 1% are homeowners. Weatherization solutions that are more equitability available for low income families would include more options for rental housing. In the vast majority of apartment complexes there is income segregation (apartments class A, B, C corresponds to income.) Could we work with landlords running low income apartment complexes as the target of weatherization outreach? Certainly many are owned from out of state vendors or equity funds but still there are thousands of complexes owned by local "mom and pop" landlords who could help 200-300 families at one time if they are given an opportunity to receive help weatherizing their units." **– Crisis Assistance Ministry**

"This program should be funded first with DOE weatherization funds and LIHEAP." **– AARP**

OFFICIAL COPY
Sep 26 2023

"The program administration should be determined by RFQ. Only non-ratepayer funds should be utilized for health and safety work. Ratepayer funds could be used for EE measures and to reduce cost of service." **- Public Staff of the North Carolina Utilities Commission**

"In the statistical analysis, higher winter peak and summer peak usage were associated with a customer being more likely to be in arrears, receive a 24-hour notice, and be disconnected. These results would support reducing high energy use via weatherization." **– Nicholas Institute**

"For the same reasons that we support LIAC Program Proposal Number 2, which calls for a DEP Weatherization Program modeled after the DEC Weatherization Program, we also support the substance of this Proposal (No. 20). Even though NCCAA has unmatched experience administering this kind of program (as it does the DEC Weatherization Program, Helping Home Fund, and HHI), it is our understanding that Duke Energy would need to go through an RFP process to identify the program administrator and that it may be premature to assign that role to NCCAA at this time." **– North Carolina Justice Center**

"The Company plans to file the DEP Income Weatherization Program with the NCUC within the next two weeks." **– Duke Energy**

Program Proposal Information:

Name and Organization: Detrick Clark, The North Carolina Community Action Association

Program Name: The Duke Energy Progress Weatherization Program (DEP WX)

Program Description: The Duke Energy Progress Weatherization Program (DEP WX) is a robust weatherization program designed to assist DEP income-qualified customers by directly installing energy-efficient measures and providing education on energy efficiency. Like the Helping Home Fund, Healthy Home Initiative, and the DEC WX program, the DEP WX Program would lean on the collaboration and expertise of the NCCAA, and its dedicated weatherization service providers network for implementation. If expanded, funds will be distributed to participating Service Providers involved in assisting income-qualified customers with energy efficiency. The DEP WX program would function as a rebate program.

Program Objective: The goal of the DEP WX program is to provide comprehensive weatherization and efficiency measures to the greatest number of customers in the Duke Energy Progress (DEP) service territory. The DEP WX Program will reduce energy consumption for income-qualified customers by directly installing energy [1] efficient measures and providing education on energy efficiency. Whenever possible and cost-effective, homes shall be thoroughly insulated and air sealed, thus achieving the greatest gains in energy conservation and improved comfort.

By implementing this program, the following shall be completed for qualified program participants:

1. Conduct an energy audit to identify energy efficiency opportunities in the customer's home;

OFFICIAL COPY
Sep 26 2023

2. Install a comprehensive package of electric conservation measures to increase the home's energy efficiency and to lower program participants' energy costs;
3. Replace inefficient refrigerators with ENERGY STAR® refrigerators;
4. Provide one-on-one customer education on energy efficiency techniques and measures; and
5. Educate customers on other applicable energy efficiency programs that are available.

In addition, using Duke Energy's income-qualified weatherization funds:

- Upgrade high-efficiency heat pumps (HEHP) to a minimum of SEER 15 and HSPF 8.2 with an electronically commutated motor (ECM); and
- Promote behavioral changes that help program participants more effectively control their energy usage and lower their costs.

Like the Helping Home Fund (HHF), Duke Energy Carolina's Weatherization Program (DEC WX), and the BlueCross and BlueShield of NC Healthy Home Initiative (HHI), this program will utilize independent contractors, and leverage existing community action agencies, and WAP service provider resources to make improvements in eligible homes within Duke's DEP service territory.

Any funding not requested for energy efficiency expenditures by the end of the calendar year will be forfeited.

We are proposing multiple options to participate in the DEP WX Program.

1. State Completed Projects - Submit for DEP WX rebates after completion of State Weatherization or Refrigerator Replacement Projects. Service Providers would submit their materials and labor summary report, refrigerator receipts and a copy of the State Completed Jobs Report. Service Providers would be paid a fixed cost rebate based on eligible measures (including labor and materials.)
2. Stand-Alone Projects - Submit for DEP WX fixed cost payments after completion of approved weatherization measures and/or refrigerator replacement. Service Providers must submit invoices for materials and labor detailing the number of installed materials. Service Providers would be paid a fixed cost payment based on eligible measures (including labor and materials.)
3. HVAC Projects - Payment towards a leveraged project (ie. HARRP) or a stand-alone project for installation of a 15 SEER HP replacement. Eligibility and maximum costs would be identical to the current DEC WX program. Service Providers must submit contractor invoices, and AHRI certificates and indicate any source/amount of leveraged funding. Reimbursement/payments for HVACs would not be supported if any systems were paid using HARRP or other program dollars. The HVAC portion of this project would not be considered a rebate measure. Service Providers would receive an agreed-upon administrative fee based on the total project cost. The admin fee should be comparable to the state NC WAP admin fee. Once determined this administrative fee will be automatically calculated and added to project payments.

Target Participants: The DEP WX program will target DEP eligible households with incomes at or below 200 percent of the federal poverty guidelines or those receiving cash assistance

OFFICIAL COPY
Sep 26 2023

payments under Work First or Supplemental Security Income. Like DEC WX this program will prioritize assistance to the elderly, individuals with disabilities, and families with children.

Program Administration: In this proposal, the North Carolina Community Action Association is the lead organization providing project implementation and overall program oversight. NCCAA will work with Duke Energy Progress, and NC WAP service providers to plan, coordinate, and implement a series of comprehensive strategies to address weatherization needs for struggling families.
The implementation of this program will allow low-income North Carolinians to experience energy savings, utility bill reductions, and safe, healthy homes. To assist Duke Energy Progress in reducing low-income families' electric burden, and overall health outcomes, NCCAA will focus on high energy users and populations that are most vulnerable.
NC WAP service providers will follow the State's Weatherization Installation Standards or industry-recognized weatherization practices as applicable.

Eligibility Criteria: The DEP WX Program will target income-qualified customers located in DEP NC territory.

Customers will be eligible to participate if:

- They are a DEP customer with an active account; and
- Household income must be at or below 200% of the Federal Poverty Guidelines. Service Providers will need to submit for payment of qualified measures installed and services performed on the home.

The DEP WX Program will be available to:

- Owner-occupied, single-family residences including condominiums and manufactured homes; and
- Renters with owner approval for refrigerator replacement only.
  The DEP WX program will not perform weatherization services on condemned homes, nor perform services on homes that are for sale. For example, if a home is placed for sale while work is in progress, the Service Provider shall end the work at the soonest, safe stopping point, and consider the job complete.

Success Metrics: The overall purpose of the DEP WX program is to help participants reduce their electric burden, improve health outcomes, and provide KWH savings for Duke. All the services will be provided at no cost to the customer.
Through the DEP WX (DEC WX) expansion families will have access to two of the three existing EE programs, Weatherization and Refrigerator Replacement. Access to these two programs will have a considerable impact on LIEAP and CIP customers' electric burdens. If expanded, NCCAA will work with Duke to increase the number of customers served, the number of measures installed, and provide KWH reductions.

HVAC Replacement HVAC Replacement up to $ 6,000.00

WX Refrigerator Replacement

OFFICIAL COPY
Sep 26 2023

- Refrigerator Replacement 15 cu ft
- Refrigerator Replacement 18 cu ft
- Refrigerator Replacement 21 cu ft

WX Tier 1

- Air Sealing
- Clean and/or Replace Dryer Vent
- Door Weatherstripping
- Pipe Insulation - 2-5' sections
- Tank Insulation
- Heating System Tune-Up
- Heating System Repair
- LED 5W Chandelier
- LED 5W Generic
- LED 5W Globe
- LED 9W
- LED A-Line - any wattage except 9W
- Low Flow Aerators - max 3
- Low Flow Showerheads - max 2
- Water Heater Temp Adjustment

WX Tier 2

- Attic Insulation - Cellulose, Blown - R-30
- Attic Insulation - Cellulose, Blown - R-38I
- Attic Insulation - Fiberglass, Blown - R-30
- Attic Insulation - Fiberglass, Blown - R-38
- Belly Fiberglass Loose
- Duct Insulation
- Duct Sealing
- Floor Insulation - Fiberglass, Batts - R19
- Knee Wall Insulation
- Manufactured Home Roof Cavity
- Roof Cool Seal - Mobile Home
- Wall Insulation - Cellulose. Blown - R13
- Wall Insulation - Fiberglass. Blown - R13

If given the opportunity NCCAA would like to see the following enhancements added to this program and the DEC WX program.

1. Secure long-term funding for Health and Safety funds to ensure customers can continue to receive needed Weatherization services.
2. . Explore opportunities to expand services and include additional measures as identified.
3. Earmark marketing dollars so agencies can better market the services and program.
4. Re-evaluate the rebate measures to ensure they are parallel with true cost/inflation.
5. Access to more customer-related data (Acxiom)

OFFICIAL COPY
Sep 26 2023

For example, to serve more customers and increase overall program outcomes NCCAA, would like to work with Duke to better identify high energy users and DEP program eligible customers. The CAA network feels earmarking a percentage of the overall budget to assist agencies with marketing the program would help to increase program visibility and outcomes.
Ideally, NCCAA would like to gain access to Duke's Acxiom data and other customer and neighborhood-level data to better identify high concentrated DEP income eligible areas. This is a model that is currently being used for Duke's Neighborhood Energy Saver Program (NES2.0). If DEC WX and DEP WX agencies were equipped with the same data, it would allow them to better direct their limited resources and ramp up the reach of the program.

Program Partners:

Duke Energy Progress
North Carolina Community Action Association (NCCAA)
North Carolina Weatherization Assistance Service Providers (mostly CACs)
TRC (formerly Lockheed Martin)
North Carolina Weatherization Assistance Program (NCWAP)
NCCAA's current contractor network (HHF, DECWX, and HHI)
Historically Underutilized Businesses (HUB)
Minority and Women-Owned Businesses (MWBE)
Veteran Owned Small Businesses
Regional Specialty Contractors
Community Development Organizations
Private Weatherization Contractors
Non-profit Agencies
Community Action Agencies (NC's 34-member network)

Additional Information: Based on our current experience as the administrator of the DEC WX program and the North Carolina Utility Commissions' support of that work, we feel there are no regulatory or statutory barriers to implementing a similar program in the DEP service territory. Over the past several months, Duke, NCCAA, and TRC have had a few informal discussions about a possible program filling. NCCAA and Duke have discussed the launching of this program and some of the program recommendations identified in the Success Measures section of this proposal, amongst other program enhancements tools and processes.
NCCAA has successfully managed and administered the Duke Energy Carolinas (DEC WX) Weatherization program since 2015. As of March 4th, 2022, the DEC WX program has provided low-income customers with more than $13 million in direct weatherization assistance and has served more than 4,200 families with over 5,100 weatherization-related measures.
As noted, by Duke's self-evaluation of the DEC WX program the average cost per DEC participant in 2019 was $3,486.89 and respectively $3,405.21 in 2020. In 2019, families that participated in the DEC WX program experienced significant energy savings. The program can deliver anywhere from a 241-kWh to a 3774-kWh reduction for participants depending on the measures the customer qualifies for and receives. In 2019, on average families experienced 1994 kWh WERP, 805 kWh RRP in savings, and in 2020 families on average experienced 1909 kWh WERP, 805 kWh RRP in savings.
According to Duke's recent analysis, there are approximately 780,000 DEC low-income program eligible customers that can benefit from the program. The number of eligible participants reflects

OFFICIAL COPY

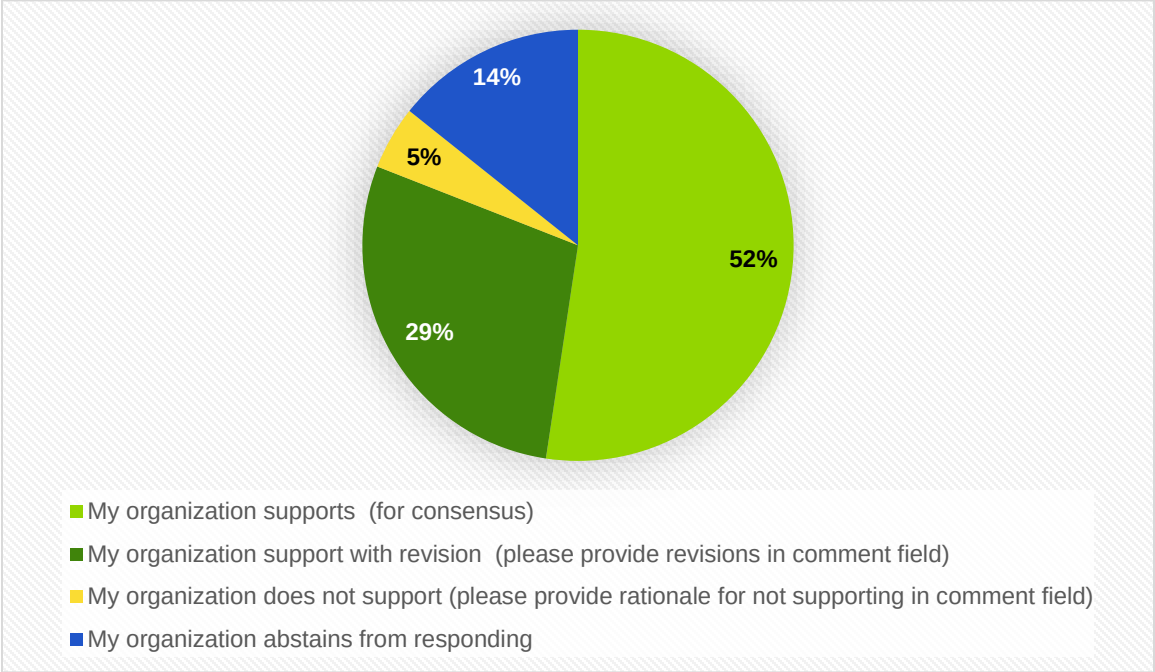
Sep 26 2023

the current approximate number of customers in the respective service territory that have been identified as Low Income (200% of FPL). Expanding the DEC WX program into the DEP service territory will be an added resource to approximately 350,000 to 375,000 low-income DEP customers.

OFFICIAL COPY
Sep 26 2023

Proposal 21 - NC Low-Income Energy Major Home Repair

Assessment Results:



Comments from Assessment:

"As we said with respect to No. 19, this is a critically needed program and builds on NCCAA's valuable experiences. But it is not clear from the proposal where the funds would come from for this Major Home Repair program. Ratepayer funds have historically been limited to energy efficiency related upgrades. Ideally, federal or state funds could support an initiative like this to provide the repairs necessary to make them ready for EE upgrades." **– Southern Environmental Law Center (SELC)**

"We support DOE or infrastructure funds from the Federal government be used for a pilot program." **– AARP**

"The program administration should be determined by RFQ. Only non-ratepayer funds should be utilized for health and safety work. Ratepayer funds could be used for EE measures and to reduce cost of service." - **Public Staff of the North Carolina Utilities Commission**

"In the statistical analysis, higher winter peak and summer peak usage were associated with a customer being more likely to be in arrears, receive a 24-hour notice, and be disconnected. These results would support reducing high energy use and this proposal would facilitate that process by providing for repairs and reducing deferrals from weatherization assistance." **– Nicholas Institute**

OFFICIAL COPY
Sep 26 2023

"As we said with respect to No. 19, this is a critically needed program and builds on NCCAA's valuable experiences. But it is not clear from the proposal where the funds would come from for this Major Home Repair program. Ratepayer funds have historically been limited to energy efficiency related upgrades. Ideally, federal or state funds could support an initiative like this to provide the repairs necessary to make them ready for EE upgrades." **– North Carolina Justice Center**

"Similar to our response to proposal 19, we support the program but are interested in more discussion about how to fund it since that does not seem to have been defined." **– North Carolina Sustainable Energy Association**

"We strongly support the establishment of consistent funding for health, safety, and incidental repairs to supplement federal, state, and ratepayer funds for energy efficiency. We know there are potential challenges with regard to use of ratepayer funds for these purposes, but are committed to working through the associated regulatory issues and/or assist in seeking additional funding from other sources." **– Southern Alliance for Clean Energy (SACE)**

"The Companies do not support this proposal as it doesn't have a specific time to the scope of identifying opportunities to address affordability for low-income customers." **– Duke Energy**

Program Proposal Information:

Name and Organization: Detrick Clark, The North Carolina Community Action Association

Program Name: The NC Low-Income Energy Major Home Repair Program

Program Description: The NC Low-Income Energy Major Home Repair Program is a pre-weatherization deferral assistance program designed to help DEP and DEC program eligible families with costly home repairs and other health and safety issues that have previously prevented them from receiving assistance from weatherization assistance program service providers.

Annually, hundreds of families are added to the NCWAP deferral list because their homes were deemed fiscally and physically inadequate. Since 2018, over 1,100 low-income families have been placed on the NC Weatherization Assistance Program deferral list because the condition of their homes rendered the delivery of weatherization services either unsafe or ineffective. Because the NCWAP program prioritizes families with children and those that are either elderly, disabled or high-energy users, deferrals present an additional hardship for these families who are already struggling to simply make ends meet.

Reasons for deferrals vary, but some common causes include:

- The client has known health conditions that prohibit the installation of insulation and/or other weatherization materials;
- The building structure or its mechanical systems, including electrical and plumbing, are in such a state of disrepair that they cannot be repaired immediately;
- The house has sewage or other sanitary problems that would further endanger the client and weatherization installers if weatherization work is performed;

OFFICIAL COPY
Sep 26 2023

- Home repair is beyond the scope of reasonable cost justification;
- The house has been condemned or electrical, heating, plumbing, or other equipment has been “red-tagged” by local or state building officials or utilities;
- Moisture problems are so severe that they cannot be resolved;
- Dangerous conditions cannot be reasonably resolved due to high carbon monoxide levels and combustion appliances;
- The extent and condition of lead-based paint in the house would potentially create further health and safety hazards if disturbed.

In this program proposal the North Carolina Community Action Association will plan, coordinate, and implement a series of comprehensive strategies to address major home repairs currently preventing low-income DEP and DEC customers from experiencing energy savings, utility bill reductions, and safe, healthy homes. Due to the NC Low-Income Energy Major Home Repair Program, being deferred will no longer mean indefinitely postponing weatherization assistance.

Program Objective: The Objective of the NC Low-Income Energy Major Home Repair Program is to address a list of high-priority repairs preventing low-income DEP and DEC customers from utilizing weatherization services. The goal for this deferral prevention program is to generate a robust pipeline of newly eligible clients for NCWAP Weatherization agencies to serve and to reduce the number of homes that are deferred each year.

Only measures that are necessary to make a home eligible for the NCWAP Program shall be provided. This strategy will enable the program to provide major repairs to the greatest number of customers while also decreasing the number of ineligible homes and transitioning these customers to the active NCWAP waitlist. Once energy efficiency measures are installed families may also experience the nonenergy benefits of having more disposable income and improved overall health outcomes.

Like the Helping Home Fund (HHF), Duke Energy Carolina’s Weatherization Program (DECWX), and the BlueCross and BlueShield of NC Healthy Home Initiative (HHI), this program will utilize licensed independent contractors, and leverage existing community action agencies, and WAP service provider resources to make improvements in eligible homes within Duke’s DEP and DEC service territories.

By implementing this program, the following shall be completed for qualified program participants:

1. Conduct a Major Repair Audit to identify major repairs and other energy efficiency opportunities.
2. Install a comprehensive package of Major Repair Measures preventing the home from being weatherized through the NCWAP program that includes items such as: (1) Installing and/or repairing non-functional HVAC units; (2) completing roof repairs and replacements; (3) addressing structural issues (floors/ceiling repairs/replacements); (4) mitigating mold/moisture issues; (5) fixing major plumbing, drainage, gutters, septic/sewage; and (6) fixing major electrical issues, including knob and tube wiring removal and replacement.
3. Subcontractors shall provide one-on-one customer education on energy efficiency techniques and measures while conducting necessary repairs.

OFFICIAL COPY
Sep 26 2023

4. NCCAA will promote information to help program participants to better understand their energy usage and ways they can reduce their household energy consumption. NCCAA will achieve this objective by providing participants with materials such as, but not limited to, flyers, one-pagers, refrigerator magnets, and other informational materials.
5. Agencies will inform participants of other applicable energy efficiency programs for which they may be eligible such as DEC WX, the Healthy Home Initiative, and the Helping Home Fund.

Target Participants: This program will target deferred NC WAP eligible households with incomes at or below 200 percent of the federal poverty guidelines or those receiving cash assistance payments under Work First or Supplemental Security Income. Like NC WAP this program will prioritize assistance to the elderly, individuals with disabilities, and families with children.

Again, clients are eligible if they have met all the NC WAP guidelines and they have been denied NC WAP assistance for one or more health or safety reasons. Service providers will use the deferral data from databases such as AR4CA as its reference guide to identify participants that meet the program's eligibility criteria within a feasibly specific timeframe.

Program Administration In this proposal, the North Carolina Community Action Association is the lead agency providing overall project and program implementation and oversight. NCCAA will plan, coordinate, and implement a series of comprehensive strategies to address major home repairs currently preventing low-income North Carolinians from experiencing energy savings, utility bill reductions, and safe, healthy homes. To assist Duke with reducing low-income families' electric burden, and increasing health outcomes, NCCAA will focus solely on clients that are currently on the NC WAP deferral list. Due to the NC Low-Income Energy Major Home Repair Program, being deferred will no longer mean indefinitely postponing weatherization assistance for NC's most vulnerable.

Eligibility Criteria: Customers are eligible to participate in this program if they meet all the following criteria:

1. The customer is a North Carolina resident; and
2. The customer is currently on the NC WAP Deferral List; and
3. The customer resides in a tenant-occupied or owner-occupied home; and
4. That home is not for sale.

NCCAA will work with the NC DEQ, NC WAP, and community action agencies to identify program-eligible clients. Clients are eligible if they have met all the NC WAP guidelines and they have been denied NC WAP assistance for one or more health or safety reasons. NCCAA will use the deferral data from databases such as AR4CA as its reference guide to identify participants that meet the program's eligibility criteria.

Success Metrics: If the program is successful, the current deferral list will decrease over time, and the NC WAP pipeline and output will increase. The program will also help participants reduce their electric burdens and help NC WAP service providers to fulfill their state weatherization contracts. As agencies can fulfill their state contracts their budgets will increase allowing more North Carolinians to benefit from weatherization.
This program will provide the following measures:

OFFICIAL COPY
Sep 26 2023

A. Roof Repair or Replacements
B. Structural Issues (Floors and/or Ceiling)
C. Control or Remediation of Mold/Moisture
D. Major Plumbing, Drainage, Gutter, Septic, and Sewer issues

Program Partners: North Carolina Weatherization Assistance Service Providers (mostly CACs)
North Carolina Weatherization Assistance Program (NCWAP)
NCCAA's current contractor network (HHF, DECWX, and HHI)
North Carolina Department of Environmental Quality (DEQ)
North Carolina Community Action Association (NCCAA)
Community Action Agencies (NC's 34-member network)
Historically Underutilized Businesses (HUB)
Minority and Women-Owned Businesses (MWBE)
Veteran Owned Small Businesses
Regional Specialty Contractors
Community Development Organizations
Private Weatherization Contractors
Non-profit Agencies

Additional Information: NCCAA has launched a comparable pilot program in conjunction with the NC DEQ, NCWAP, and community action agencies to assist 120-180 low-income households with project costs ranging between a few hundred dollars to several thousand dollars. Contractors will access all projects on a case-by-case basis to determine what major repairs are needed to bring homes up to NCWAP "weatherization ready" standards. All work will be pre-approved by NCCAA before contractors begin home improvements. This requirement will ensure the measures being addressed are fiscally appropriate and in line with the scope of the project.

The NCCAA Major Repair Program will achieve this work through a two-phase process that considers both project resources and community economic well-being. The NCCAA Major Repair program has the latitude to offer major repair services to all 100 NC counties. However, in Phase I of our launch we will place a heavy emphasis on 60 of North Carolina's 100 NC counties. Through this community economic well-being ranking, The NCCAA Major Repair Program will look to serve some of NC's most distressed communities by focusing over 80% of its efforts in tier 1 and tier 2 designated counties. For the remaining 20% of its campaign in Tier 3 counties, efforts would be focused on key low-income areas such as low-income census blocks.

OFFICIAL COPY
Sep 26 2023

~~Proposal 22 - Customer Affordability Program~~ (see P24)

Name and Organization: Brad Harris. Duke Energy Carolinas, LLC. ("DEC") and Duke Energy Progress, LLC. ("DEP") (collectively "the Companies").

Program Name: Customer Affordability Program (CAP). DEC and DEP would have separate programs with separate funding from the respective ratepayers. However, the program design would be the same for DEC and DEP. For ease, CAP is referred to singularly throughout this document.

Program Description: CAP is a monthly credit applied directly to the customer's bill. The customer would receive the credit for 12 months. Eligible customers would be automatically enrolled in the program via a list given to the Companies from eligible state agencies that are already qualifying people for government assistance programs. Customers would be eligible for CAP for a predetermined amount of time and will require recertification after this timeframe from a CAP participating organization. [1]

Program Objective: The Companies recognize assisting customers with affordability challenges may come through products and services designed to reduce energy usage and provide billing assistance. CAP provides bill credits to eligible customers automatically as they qualify for other eligible assistance. The opportunities to identify and assist low-income customers exist when customers apply for services offered by agencies administering income-qualified programs or when customers contact Duke Energy's customer service center for assistance. Customers who are enrolled in CAP will be referred to Duke Energy's Residential Income-Qualified Energy Efficiency - Weatherization and Equipment Replacement Program to receive weatherization services. CAP will allow the Companies to refer income-qualified customers to receive weatherization services in addition to the bill credit designed to lower a customer's bill via a flat, monthly credit.

Target Participants: The analysis conducted on DEC and DEP NC residential customers shows customers who receive Low-Income Energy Assistance Program (LIEAP) and Crisis Intervention Program (CIP) assistance use more electricity in the winter months and more usage per square foot in comparison to other customers. LIEAP and CIP recipients are more likely to have arrears and experience disconnection for non-pay. For this reason, the target participants for the CAP initially will be LIEAP and CIP recipients. Upon successfully implementing the program, the Companies will evaluate opportunities to expand CAP to include recipients of other income-qualified assistance programs.

Program Administration The North Carolina Department of Health and Human Services (DHHS) administers LIEAP and CIP. The Companies want to leverage that existing work with DHHS to receive a list of customers for assistance programs identified as CAP eligible (i.e., LIEAP and CIP). The Companies will work with DHHS to discuss requirements for participating customers to receive the CAP bill credit. The Companies would auto-enroll eligible customers

[1] The majority of government assistance programs require annual recertification of recipients. Because of the annual recertification process, customers can be automatically recertified for CAP through recertification in the other government assistance programs.

OFFICIAL COPY
Sep 26 2023

identified by the state agency and update the information directly in the billing system. The Companies would also be responsible for tracking program success.

Eligibility Criteria: Any customer that receives assistance from one of the CAP eligible programs, i.e., LIEAP or CIP. The Companies will explore the feasibility of enrolling customers who would have qualified for LIEAP or CIP but did not receive assistance due to funding running out before enrollment was closed for the year.

Success Metrics: Metrics could include timely enrollment of eligible customers, tracking of program information, customer satisfaction with the program, and reduce customer's electricity burden.

Program Partners: Qualifying state agencies, such as NC DHHS

Additional Information: CAP could be combined with energy efficiency (EE) program and weatherization program awareness and education campaigns. Increasing access and knowledge of EE programs, in addition to direct bill assistance, is a win-win for all involved. In the analytics presented in the Low-Income Affordability Collaborative (LIAC) showed the LIEAP/CIP customers use more electricity than all other income groups in nearly all segments of customers studied. Additionally, the average LIEAP/CIP customers were disconnected for non-payment ("DNP") over four times more than the total North Carolina customers (16.3 percent of LIEAP/CIP customers were DNP compared to 3.9 percent for all NC customers). Reducing the amount of kWh used reduces the total bill. Reducing the total bill further with the CAP credit can greatly impact the lives of LIEAP/CIP customers. As previously mentioned, the Companies are open to exploring expanding the list of CAP eligible government assistance programs but believes starting with LIEAP/CIP customers can have the biggest impact, even though only two percent of North Carolina customers received LIEAP/CIP assistance in the LIAC review period.

There are alternative options for the CAP design. The following alternatives are not mutually exclusive and can be mixed and matched.

1. Instead of a flat credit for 12 months, customers could receive double the credit amount for six months when customers experience an increased heating or cooling cost for their homes. Customers would receive the same annual credit level, and it would just be a matter of how and when distributed. The LIAC analysis revealed LIEAP/CIP customers' bills were highest in the winter months (December through February), followed by the summer months (June through September).

2. If the eligible agency has the ability, or could do so at low cost, the Companies will request the agency denote CAP eligible customers by various federal poverty level (FPL) groups. This would enable the Companies to potentially provide a higher level of assistance to customers whose need is more significant based on the customer's federal poverty level. For example, the CAP credit could be higher for customers in the 0-50 percent FPL group compared to customers in the 101-150 percent FPL group. The Companies will continue to explore this option with eligible agencies.

3. An arrears management component could be added. Nearly 60 percent of LIEAP/CIP customers met the arrears definition used in the LIAC analytics. LIEAP/CIP customers had a past due amount that ranged between $120 to $180. Other arrears management programs the Companies are aware of typically forgive a portion of the customer's

OFFICIAL COPY

Sep 26 2023

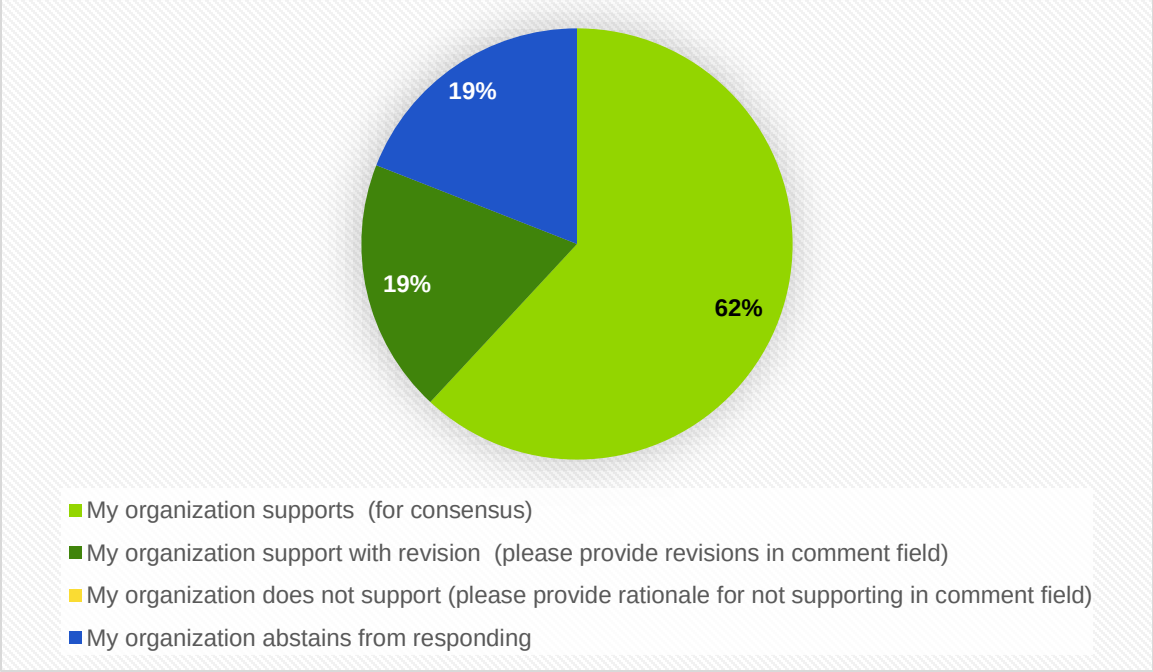
balance if the customer makes a monthly payment on-time and in-full. For example, a customer's arrears balance may be forgiven in full if the customer makes on-time and in-full payments for 12 months. The arrears management component would be in addition to the monthly CAP credit.

OFFICIAL COPY
Sep 26 2023

Proposal 23 - Smart $aver Low Income Multi-Family Retrofit (P08 + P18)

Combination of Proposal 08 and Proposal 18

Assessment Results:



Comments from Assessment:

"We support DOE or infrastructure funds from the Federal government be used for a pilot program." **– AARP**

"Ratepayer funds could only be used only for the EE components; non-ratepayer funds could be leverage for non-EE components of this proposal." **- Public Staff of the North Carolina Utilities Commission**

"The utility should not be administering the program or leveraging funds. Seems like this should fall under a community action agency or non-profit." **– Rowan Helping Ministries**

"The findings of the statistical analysis support focusing on reducing energy consumption in multi-family housing, particularly multi-family rental housing." **– Nicholas Institute**

"The low-income multifamily segment of the Duke Energy customer base is an area of opportunity to assist the income qualified tenants. Duke has been working with a group of interested stakeholders on a investigating a low-income multifamily pilot program and thru that work has identified challenges including, but not limited to the following: • These income qualified customers maybe receiving overlapping efficiency measures through the

OFFICIAL COPY
Sep 26 2023

Neighborhood Energy Saver Program • There is an existing direct install multifamily program in the Duke Energy program portfolio that can serve all customers, so there is potential confusion for this program. Are these programs related or operated separately while serving the same multifamily dwellings? • There isn't a intake process for determining low-income eligibility directly through Duke Energy right now. The information is sensitive and time constrained. Is the intent to use other low-income entities to determine eligibility? • The weatherization agencies also can serve this segment of the population, what is the best way to coordinate services between the programs? • This program seems to be targeted and reported through the tenant meter, since the property owner must agree to the upgrades, what is the proposed coordination with tenant and property owner? • Does the landlord or property owner have to agree not increase rent for some period of time? • How will energy savings be captured when the measure might include shared space like attic insulation? • Is fully up to Duke Energy to determine the best method, process and cost to implement the upgrades? Would Duke be expected to submit or assist with grant applications? At what point would the NCUC evaluate the program for best practices by project or at/after EM&V? • How often are he income qualification criteria updated? Is there a single version of the truth to reference? • Why are there 2 different eligibility criteria for 1-4 units multifamily v. single family? Are the eligible single-family units required to be part of the larger complex of buildings?

The Company will continue to work with the rate-case settlement stakeholder group to work through these challenges in attempts to develop a feasible pilot as there clearly is an opportunity to assist customers, but need to better understand how it fits in the portfolio and get more granular on the specifics of the pilot that Duke will oversee." **– Duke Energy**

Program Proposal Information:

Name and Organization: Christina Cress, Bailey & Dixon, LLP with NCJC and other Stakeholders

Program Name: Smart $aver Low Income Multi-Family Retrofit Program (Smart $aver LIMP)

Program Description: Smart $aver LIMP projects would involve efficiency upgrades for buildings with currently high energy consumption, specifically for lighting, appliances, weatherization, heating systems, controls, domestic hot water, and HVAC/mechanical systems. Eligible measures under the LIMRP would be directly installed at no charge to the low-income customer, and would include:

1. comprehensive energy assessment, including customer education;
2. weatherization, including wall, attic, floor, and pipe and duct insulation, as well as air sealing (caulking, weather stripping, door and window hardware, window parting beads and stops);
3. programmable thermostats;
4. blower door analysis;
5. heating system tune-up, repair, and replacement;
6. low-flow showerheads and faucet aerators;
7. minor building repairs, including glass replacement and adjustment of window meeting rails;

OFFICIAL COPY

Sep 26 2023

8. replacement of inefficient appliances, including refrigerators and clothes washers;
9. installation of compact fluorescent lamps (CFLs) and LEDs;
10. health and safety measures such as wire inspection, ventilation, and the DOE lead-free protocol; and
11. multi-family-building-specific measures, such as common area lighting fixtures, HVAC motors and controls and heating systems.

Additional Stakeholder support for this proposal notes the following:

Various regulations commonly drive utility energy efficiency programs aimed towards multifamily housing to take a fragmented approach in providing services. Multifamily tenants who are income-eligible may receive no-cost efficiency measures that are applicable only to their units, such as efficient lighting, but may not be eligible for incentives or measures that are tied to the property owners' utility bills, which are commonly on commercial rates. The incentives available through standard commercial programs may not be sufficient to make efficiency measures affordable – and clearly operating costs play a key role in determining the costs of operating multifamily housing. The result is that comprehensive efficiency projects in affordable multifamily housing are unlikely to occur, thus failing to make a significant dent in the energy costs for these buildings. To overcome these obstacles, this program would provide a one-stop shop approach where a single program point of contact would work with property owners to facilitate comprehensive efficiency projects that address both in-unit (residential) and common area/common system (commercial) efficiency measures. Rather than treating the commercially metered elements of affordable multifamily housing as a business, the program would offer enhanced incentives on the basis of the income-eligible residents, thus helping reduce the operating costs for the building as well as tenants' bills.

Program Objective: To provide cost-effective energy efficiency improvements to multi-family buildings, including nonprofit and public housing authorities. For-profit entities are eligible to apply for funds to improve the energy usage of their buildings.

Target Participants: 1-4 unit residential buildings where at least 50% of the units are occupied by low-income residents earning at or below 60% of area median income and are high energy users. For single-family dwellings, 50% of occupants at or below 60% of the state median income level.

Program Administration: The utility would provide the primary administrative and functional roles. Potentially a third-party administrator or contractor could oversee the day-to-day operations, including scheduling, assessing and installing eligible measures in income-eligible customers' homes and buildings. The utility (or an entity acting on its behalf) would also be responsible for leveraging other federal and state funding sources to provide the most comprehensive energy efficiency projects possible. The NCUC would have oversight authority to review multi-family projects and ensure utility compliance with best practices, including ensuring cost-effectiveness and managing overall program costs. The NCUC would also have additional oversight authority through the cost-recovery regulatory mechanism set forth in G.S. 62-133.9

Eligibility Criteria: 1-4 unit residential buildings where at least 50% of the units are occupied by low-income residents earning at or below 60% of area median income and are high energy

OFFICIAL COPY
Sep 26 2023

users. For single-family dwellings, 50% of occupants at or below 60% of the state median income level.

Success Metrics: Net Annual Savings (MWh); Net Lifetime Savings (MWh); # of customers participating; CCE ($ per lifetime kWh); annual peak demand savings (summer/winter kW).
Proposal 18 - Smart $aver Low Income Multi-Family Retrofit

Program Partners: U.S. Department of Energy; U.S. Department of Health and Human Services; North Carolina Department of Health and Human Services; Building Performance Institute (BPI); North American Technician Excellence (NATE)

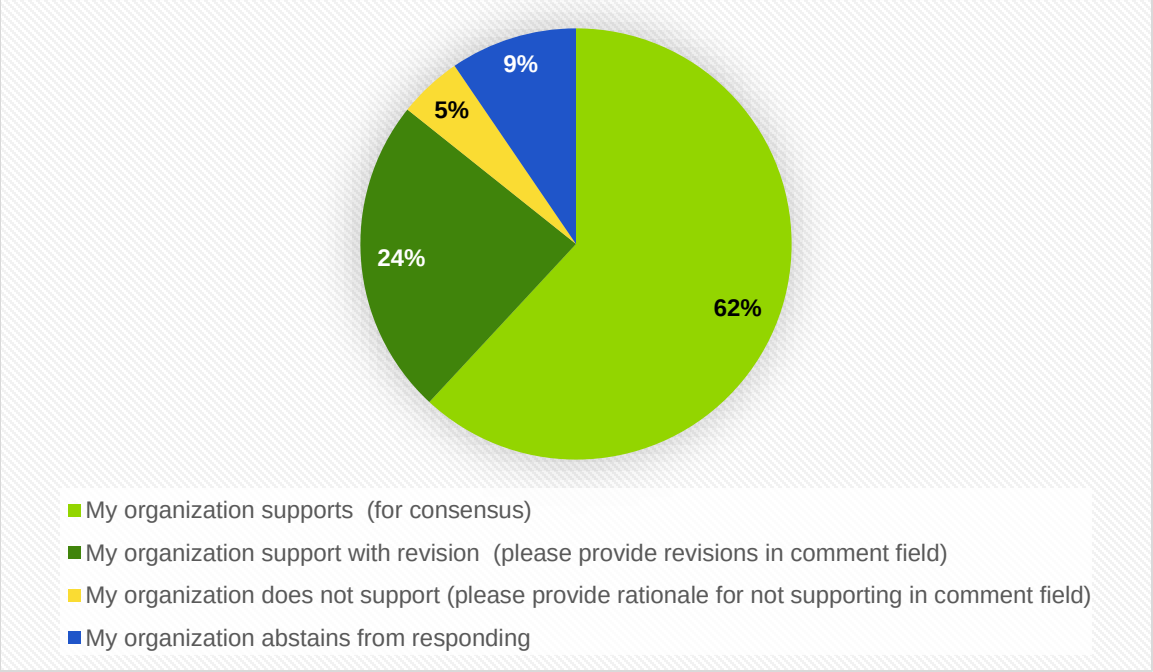
Additional Information: This program has been successfully implemented in Massachusetts and has received tons of accolades as being an "exemplary" energy efficiency program.

OFFICIAL COPY
Sep 26 2023

Proposal 24 - Customer Affordability Program "CAP" (P09 + P22)

Combination of Proposal 09 and Proposal 22

Assessment Results:



Comments from Assessment:

"AARP supports such comprehensive and coordinated measures to help low-income customers pay their bills and supports the idea conceptually. We especially like the auto enrollment feature. We are interested to ensure that the program can be readily understood by consumers and can be administered without undue complexity. We would like more information on the complexities created by having three different benefit tiers. A pilot program should be used to test the viability of this new idea." **– AARP**

"This program is supported to the extent that it is based upon cost of service principles. Participation in applicable EE programs should be required instead of 'highly suggested.'" **- Public Staff of the North Carolina Utilities Commission**

"In regards to the Tiered approach, DHHS does not currently capture the data necessary to determine the FPL levels discussed in this proposal. For CIP, LIEAP, LIHWAP, SNAP, and Medicaid, a recipient's income eligibility is determined by whether they fall under a certain FPL but what percentage they fall into is not recorded. This could potentially change in the future; however, due to the amount of work that is ongoing with our NC FAST team on making changes to our system that take priority, it is unclear as to when our team would have availability to make these upgrades to capture this data." - **North Carolina Dept of Health and Human Services**

OFFICIAL COPY
Sep 26 2023

"Violates cost-causation principles to recover costs from all classes of customers. Costs should be contained to residential class of customers. This proposed interclass cross-subsidization is not consistent with existing NC law, in particular H951." **– Carolina Industrial Groups for Fair Utility Rates (CIGFUR)**

"The results of the analysis support efforts that would reduce electric burden for households." **– Nicholas Institute**

"Requirement for participants in program to have an energy efficiency audit to identify ways to reduce energy consumption. Recertification would take into consideration the customers implementation of energy efficiency recommendations and/or use of the free weatherization services." – **Rowan Helping Ministries**

Program Proposal Information:

Name and Organization: Joint proposal from multiple stakeholders merging Program Proposal # 9 with # 22

Program Name: Customer Affordability Program (CAP). DEC and DEP would have separate programs with separate funding from the respective customers. However, the program design would be the same for DEC and DEP. For ease, CAP is referred to singularly throughout this document.

Program Description: CAP is a monthly credit applied directly to the qualified customer's bill. Eligible customers would be automatically enrolled in the program via a list given to the Companies from eligible state agencies that are already qualifying people for government assistance programs. Customers would be eligible for CAP for a predetermined amount of time and will require recertification after this timeframe. The CAP program will strive to develop a process so that customers can be automatically recertified.

Program elements would also include:

1) Three income tiers of assistance: Tier 1, 0-50% FPL; Tier 2, 51-100% FPL, and Tier 3, 101% - 150% FPL. The highest level of assistance will go to Tier 1 and lowest level to Tier 3.
2) Annual assistance payments will be designed to reduce the electric energy burden (i.e., the percentage of annual income spent on electricity) to a target of 5% of household income, based on the average income and energy costs for participants in each tier.
3) The program would provide arrearage assistance for participating customers. Arrearages would be forgiven if a residential customer remains current on their bill for a period of 12 months after enrolling in the program.
4) Admin – no more than 5% of the value of discounts and arrearage write-down could be used for program administration; however, in the first year of the program the 5% cap would not apply to allow for the appropriate and reasonable recovery of one-time program launch costs.
5) The program would strive to use a streamlined auto enrollment protocol in partnership with NC DHHS and other appropriate agencies to enroll income-verified customers. Persons qualified for certain income-eligible programs within a yet to be determined time

OFFICIAL COPY
Sep 26 2023

period would be automatically enrolled. Programs might include CIP, LIEAP, LIWAP, SNAP and/or Medicaid.

6) Customers who are enrolled in CAP will be referred to residential income-qualified programs to receive no-cost weatherization and EE services where available.

Program Objective: Proposal sponsors recognize assisting customers with affordability challenges may come through products and services designed to reduce energy usage and provide billing assistance. CAP provides bill credits to eligible customers automatically as they qualify for other eligible assistance. The opportunities to identify and assist low-income customers exist when customers apply for services offered by agencies administering income-qualified programs or when customers contact Duke Energy's customer service center for assistance. CAP will allow the Companies to refer income-qualified customers to receive weatherization services in addition to the bill credit designed to lower a customer's bill via a flat, monthly credit.

Target Participants: The analysis conducted on DEC and DEP NC residential customers shows customers who receive Low-Income Energy Assistance Program (LIEAP) and Crisis Intervention Program (CIP) assistance use more electricity in the winter months and more usage per square foot in comparison to other customers. LIEAP and CIP recipients are more likely to have arrears and experience disconnection for non-payment. For this reason, the target participants for the CAP would initially include gas and electric LIEAP and CIP recipients but may include other program participants verified to meet certain Federal program income eligibility requirements.

Program Administration: The Companies want to work with DHHS to receive a list of customers for assistance programs identified as CAP eligible (i.e., LIEAP and CIP) and possibly other programs. The Companies and other stakeholders will work with DHHS to discuss requirements for participating customers to receive the CAP bill credit. The Companies would ideally auto-enroll eligible customers identified by the state agency and update the information directly in the billing system. The Companies would also be responsible for tracking program success.

Eligibility Criteria: Any DEC or DEP NC customer that receives assistance from one of the CAP eligible programs, i.e., LIEAP or CIP for either electric or non-electric fuels, or possibly other similar income-eligible programs. The proposal sponsors will also explore the feasibility of enrolling customers who would have qualified for LIEAP or CIP but did not receive assistance due to funding running out before enrollment was closed for the year.

Success Metrics: Metrics could include timely enrollment of eligible customers, tracking of program information, customer satisfaction with the program, reduced customer electricity burden, reduced disconnections for nonpayment, and reduced arrearages and uncollected write-offs.

Program Partners:

- Qualifying state agencies, such as NC DHHS

OFFICIAL COPY
Sep 26 2023

Additional Information:

The intention is to combine CAP with energy efficiency (EE) and weatherization programs and related energy education campaigns. Increasing access to and participation in EE programs, in addition to direct bill assistance, is a win-win for all involved. The analytics presented in the Low-Income Affordability Collaborative (LIAC) showed the LIEAP/CIP customers use more electricity per square foot than other income groups. Additionally, the average LIEAP/CIP customers were disconnected for non-payment ("DNP") over four times more than the total North Carolina customers (16.3 percent of LIEAP/CIP customers were DNP compared to 3.9 percent for all NC customers). Reducing the amount of kWhs used reduces the total bill, saving participants money. In addition, EE investments that reduce overall usage from participating CAP customers also can reduce the amount of bill payment assistance needed to reach the target energy burden, helping to save money for all customers. Reducing the total bill further with the CAP credit can greatly impact the lives of LIEAP/CIP customers. As previously mentioned, the Companies are open to exploring expanding the list of CAP eligible government assistance programs but believe including LIEAP/CIP customers initially can have the biggest impact, even though only two percent of North Carolina customers received LIEAP/CIP assistance in the LIAC review period.

<u>Alternative design element to add to CAP design:</u>

1. Instead of a flat credit for 12 months, customers could receive double the credit amount for six months when customers experience an increased heating or cooling cost for their homes. Customers would receive the same annual credit level, and it would just be a matter of how and when distributed. The LIAC analysis revealed LIEAP/CIP customers' bills were highest in the winter months (December through February), followed by the summer months (June through September)

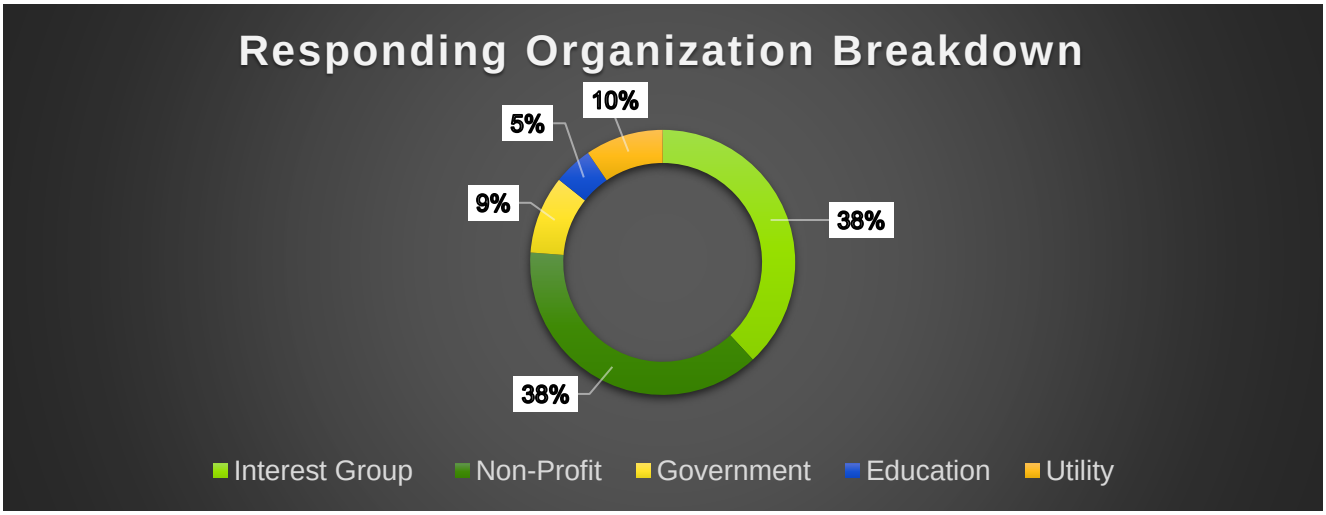
OFFICIAL COPY
Sep 26 2023

Appendix

Responding Organizations (21 Total)

Organizations (and Individuals who submitted the response on behalf of their organization):

- AARP (Michael Olender)
- Appalachian Voices (Rory McIlmoil)
- Carolina Industrial Groups for Fair Utility Rates (CIGFUR) (Christina Cress)
- Crisis Assistance Ministry (Carol Hardison)
- Dominion (Lisa FaJohn)
- Duke Energy (Conitsha Barnes)
- Legal Aid of North Carolina (Scheree Gilchrist)
- National Association for the Advancement of Colored People (NAACP) (Tina Katsanos)
- Nicholas Institute (Duke University) (Kay Jowers)
- North Carolina Community Action Association (Detrick Clark)
- North Carolina Dept of Health and Human Services (Allison Smith)
- North Carolina Housing Coalition (Adrienne Spinner)
- North Carolina Justice Center (Alfred Ripley)
- North Carolina Sustainable Energy Association (Daniel Parker)
- Public Staff of the North Carolina Utilities Commission (Tommy Williamson)
- Rowan Helping Ministries (Kyna Grubb)
- Sierra Club (Cassie Gavin)
- Southeast Energy Efficiency Alliance (SEEA) (Will Bryan)
- Southern Alliance for Clean Energy (SACE) (Forest Bradley-Wright)
- Southern Environmental Law Center (SELC) (David Neal)
- Vote Solar (Lindsey Hallock)



OFFICIAL COPY
Sep 26 2023

From: kszyman
To: Christina Cress; pforce@ncdoj.gov; Munashe.Magarira@psncuc.nc.gov; al@ncjustice.org; kathleen.richard@duke-energy.com; kay.jowers@duke.edu
Cc: Lucy Edmondson; Detrick Clark; Jamie Bond; Vijeta Jangra; jack.floyd@psncuc.nc.gov; bradley.harris@duke-energy.com; Tim.Duff@duke-energy.com
Subject: LIAC Constitutional/Legal Issue: "Cross-Subsidies" in N.C.
Date: Tuesday, November 2, 2021 7:44:00 PM

Dear Counselors serving on the LIAC Sub-Team C:

I asked Lucy Edmondson of the NCUC Public Staff to respectfully share her knowledge about applicable N.C. Constitutional, Statutory, Case Law, or Public Policy Directives on the subject of "Cross-Subsidies" and our work on LIAC. Lucy replied with a cogent and succinct Primer on the subject, and was gracious enough to grant permission to share it with the LIAC team members. See the string below for Lucy's Primer.

Of course, competent lawyers often have substantially different views on the same subject, and we welcome such different views from you utility and public interest attorneys.

Sincerely,
Ken Szymanski & Detrick Clark
Sub-Team C Co-Leads
>
>>>> On Nov 2, 2021, at 1:28 PM, Edmondson, Lucy <lucy.edmondson@psncuc.nc.gov> wrote:
>> Ken:
>> Permission granted.
>> Lucy E. Edmondson
>> Staff Attorney
>> Public Staff – North Carolina Utilities Commission
>> 4326 Mail Service Center
>> Raleigh NC 27699-4300
>> (919) 733-6110
>> lucy.edmondson@psncuc.nc.gov
>> -----Original Message-----
>> From: kszyman <kszyman@aol.com>
>> Sent: Tuesday, November 2, 2021 1:17 PM
>> To: Edmondson, Lucy <lucy.edmondson@psncuc.nc.gov>
>> Subject: Re: [External] Constitutional/Legal Issue: "Cross-Subsidies" in N.C.
>> CAUTION: External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to Report Spam.<mailto:report.spam@nc.gov>
>> Lucy:
>> Thanks very much for the extremely well-constructed NC history, public policy and program guidance principles in energy efficiency. Yours is an excellent Primer that would help the members of LIAC gain greater insight into issues that they will be mulling over to craft group responses to the NCUC charges/challenges.
>> May we respectfully have your permission to share your Primer with the LIAC members? Thank you.
>> Sincerely,
>> Ken Szymanski
>>>> On Nov 2, 2021, at 12:42 PM, Edmondson, Lucy <lucy.edmondson@psncuc.nc.gov> wrote:
>>> Ken:
>>> The current practice is to develop rates based on cost causation principles, i.e., the cost causer pays for its costs. In the newly passed SL 2021-165 https://urldefense.proofpoint.com/v2/url?u=https-3A__urldefense.com_v3_-5F-5Fhttps-3A__www.ncleg.gov_EnactedLegislation_SessionLaws_PDF_2021-2D2022_SL2021-2D165.pdf-5F-5F-3B-21-21HYmSToo-21ILxezMhDlrFKHSDQLjIrOMQ6ct-5Fa3FuuBeiKN39xut8njObkcYtwelI8G9aPxDrxqnbKK5-5FT-5FQ-24&d=DwIFaQ&c=euGZstcaTDllvimEN8b7jXrwqOf-v5A_CdpgnVfiiMM&r=otZCGSzmxnFawbn8xO7-R04IPXWFtEwRss5fk3P9zOM&m=yEGt9xVL0rwt94981LZ_QYyGx5g-VXLiYXagKFkPklE&s=Wh-A8GCdO0tBwzV02Kuwl0RfMN40ilqOYsK1Mmx_q5k&e= , the law enacts G.S. 62-133.16, which requires in

OFFICIAL COPY
Sep 26 2023

section (b) that the revenue requirement be allocated pursuant to cost causation principles. Section (a)(1) defines the "Cost causation principle" as "establishment of a causal link between a specific customer class, how that class uses the electric system, and costs incurred by the electric public utility for the provision of electric service."
>>> In his testimony in the recent Duke Energy Carolinas, LLC, rate case, Docket No. E-7, Sub 1214, Public Staff witness Jack Floyd addressed these issues. He stated that "[r]ate design should follow the same cost causation approach underlying the COSS [cost of service study], such that each customer class, or customer, is responsible for an appropriate share of the costs that are planned for and incurred in order to serve them." (Page 9, lines 10-13).
>>> He also stated, "[t]he Public Staff continues to fundamentally believe that rate design must first be based on cost-causation principles. After cost-based rates are determined, public policy may provide further guidance in designing final rates." (page 58, lines 13-16)
>>> Jack went on to say, "Any rate discount for low-income customers will shift revenue recovery to other customers in the form of slightly higher rates. This shift or subsidization must be thoroughly understood in terms of the dollars to be shifted and the effect on rates paid by other customers. I am also concerned that this shift could adversely impact those customers who would be on the edge of NOT qualifying for any program (i.e., just above the threshold of household income that might qualify the customer)." (page 59, lines 16-23) I have attached Jack's testimony.
>>> By using cost causation principles to develop rates, people's bills are based on their usage and they have an incentive to conserve to lower their bills. When rates are not based on cost causation, but perhaps on income, the tie between usage and the electric bill can be severed, and the incentive to conserve can be reduced or removed.
>>>>> In the energy efficiency realm, the rules generally require programs to be cost-effective, i.e., the benefits outweigh the costs and so all customers benefit from the energy savings achieved through EE programs. However, the Commission has allowed the companies to conduct low-income programs that are not required to be cost-effective, effectively requiring customers to subsidize the low-income programs, as the costs outweigh the benefits. Additionally, several years ago, the Commission allowed some ratepayer funds to be used to develop community college programs and weatherization programs that would not be cost-effective. However, in all other cases that I can recall, only shareholder funds have been used for these efforts.
>>> Thus, I would agree that the Commission has generally disfavored cross-subsidies that are not based on cost causation principles. However, the Commission has approved the creation of the Low Income Affordability Collaborative to report on and recommend programs targeted to low-income customers, asked the Rate Design Collaborative to develop rates to offer to low-income customers, and encouraged the Companies to pursue EE programs directed to low-income customers and residents of multi-family buildings. These efforts could result in rates or programs that are subsidized by other customers. There are benefits to other customers from low-income rates or programs when they assist low-income customers to be able to pay their electric bills on time without difficulty - including fewer customer service reps to deal with payment arrangements, disconnections, reconnections, savings from fewer late or disconnection notices, less uncollectible expense to be recovered from other customers. Regardless of SL 2021-165, the Commission already has wide latitude is setting rates that advance specific policy objectives. One such example is the SSI discount currently part of Duke Carolinas residential tariffs. Another is the offering of rate discounts for industrial customers to create jobs and load, or to maintain jobs and load in the utility service territories.
>>>>>>> The Public Staff has long advocated the development of rates based on cost causation. That support has generally applied to the gross revenue requirements and changes that occur in the context of general rate cases. The Public Staff has also worked to ensure that the utility's portfolio of tariffs all work to advance a variety of policy goals that the General Assembly or Commission implement. An example of that is energy efficiency. We have also expressed "fairness" in rates in terms of the returns on rate base as calculated by the cost of service study, under present and proposed revenues. And we've done that with the four revenue principles listed in Witness Floyd's testimony.
>>> The Commission has approved the development of programs targeted to assist low-income customers, primarily in the form of EE programs. It has also approved rate discount programs like the SSI discount and economic development and retention discounts for industrial customers, as long as they advance a public policy objective and that any subsidization created in the process is found to be just and reasonable.
>>> Also, N.C. Gen. Stat. § 62-140(a) prohibits unreasonable differences as to rates or services of a public utility between classes of service. [emphasis added] It does not prohibit what would be considered reasonable differences. The Commission is given latitude in determining the difference between reasonable and unreasonable difference.
>>> Please let me know if you have further questions.
>>> Lucy E. Edmondson
>>> Staff Attorney
>>> Public Staff – North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

>>> 4326 Mail Service Center
>>> Raleigh NC 27699-4300
>>> (919) 733-6110
>>> lucy.edmondson@psncuc.nc.gov
>>> -----Original Message-----
>>> From: kszyman <kszyman@aol.com>
>>> Sent: Thursday, October 28, 2021 10:38 AM
>>> To: Edmondson, Lucy <lucy.edmondson@psncuc.nc.gov>
>>> Subject: [External] Constitutional/Legal Issue: "Cross-Subsidies" in N.C.
>>> CAUTION: External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to Report Spam.<mailto:report.spam@nc.gov>
>>> Hello, Lucy.
>>> Thanks for participating in our Low Income Affordability Collaborative Sub Group C meeting yesterday, and going forward.
>>> As you know, we have several attorneys serving on this sub group. It seems to me that this "Cross-Subsidies" Issue is important to address. Quite frankly, it was brought to my attention by a Duke Energy lawyer earlier this year, as obviously any sort of Low-Income utility cost discount or cap that would be recommended by the LIAC to the NCUC will need to be paid for by the other ratepayers (either all or a portion such as a user class). And, the deeper the proposed discounts, the more resources will need to be exacted from the other ratepayers. The Duke Energy lawyer felt confident that N.C. law disfavors "Cross-Subsidies".
>>> It seems to me this LIAC group needs to better understand this constitutional/legal issue before expending a lot of energy in crafting recommendations.
>>> So, from your experienced position with the Public Staff, do you have any knowledge about N.C. constitutional, statutory, case law, or public policy directives that are on-point? And what do you think about this general subject?
>>> Thanks very much.
>>> Ken Szymanski
>>> 704-617-1231
>>> _____
>>> Email correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties by an authorized state official.
>>> <E-7 Sub 1214-Floyd Testimony and Exhibits-FINAL.pdf>

OFFICIAL COPY

Sep 26 2023

August 12, 2022

VIA ELECTRONIC FILING

Ms. A. Shonta Dunston, Chief Clerk
North Carolina Utilities Commission
4325 Mail Service Center
Raleigh, North Carolina 27699-4300

RE: Joint North Carolina Low-Income Affordability Collaborative Quarterly Progress Report
Docket Nos. E-7, Subs 1213, 1214 and 1187 and E-2, Subs 1219 and 1193

Dear Ms. Dunston:

Pursuant to North Carolina Utilities Commission's ("Commission") March 31, 2021 *Order Accepting Stipulations, Granting Partial Rate Increase, and Requiring Customer Notice* in Docket Nos. E-7, Sub 1213, E-7, Sub 1214, and E-7, Sub 1187, and the Commission's April 16, 2021 *Order Accepting Stipulations, Granting Partial Rate Increase, and Requiring Customer Notice* in Docket Nos. E-2, Sub 1219 and E-2, Sub 1193 and the Commission's April 14, 2022 order granting an extension of time, enclosed for filing in the above-referenced dockets is the Joint North Carolina Low-Income and Affordability Collaborative Quarterly Progress Report of Duke Energy Carolinas, LLC, Duke Energy Progress, LLC and the Public Staff.

Please do not hesitate to contact me if you have any questions or need additional information.

Sincerely,

Kathleen H. Richard

Enclosure

cc: Parties of Record

OFFICIAL COPY
Sep 26 2023

CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Carolinas, LLC; Duke Energy Progress, LLC and the Public Staff's Joint North Carolina Low-Income and Affordability Collaborative Quarterly Progress Report, in Docket Nos. E-7, Sub 1213; E-7, Sub 1214; E-7, Sub 1187; E-2, Sub 1219 and E-2, Sub 1193, has been served by electronic mail, hand delivery or by depositing a copy in the United States mail, postage prepaid, to parties of record.

This the 12th day of August, 2022.

Kathleen H. Richard
Counsel
Duke Energy Corporation
P. O. Box 1551/NC20
Raleigh, NC 27602
Tel: 919.546.6776
Kathleen.richard@duke-energy.com

OFFICIAL COPY
Sep 26 2023

LIAC Final Report
Table of Contents

I. Background 2

A. Procedural History 2

B. Key LIAC Activities to Date 4

II. Current Affordability Challenges 6

A. Overview of Sub-Team A's Assessment of Current Affordability Challenges Facing Residential Customers 6

1. Overview of Sub-Team A's Analysis of the Number of Customers Living in Households with Income at or Less than 200% of the FPG 9

2. Overview of Sub-Team A's Analysis of Patterns and Trends Concerning Energy Usage, DNPs, Payment Delinquency Histories, and Account Write-Offs Due to Uncollectability 10

B. Duke Energy Perspective 15

1. Overview of Analytics and Sources of Data 15

2. Data Attributes Assessed for the LIAC 16

III. Investigation of Current Programs 17

A. Assessment of Current Income-Qualified Programs 18

1. Residential Income-Qualified Energy Efficiency and Weatherization Assistance for Individuals ("Weatherization Program and Equipment Replacement Program") 19

2. Residential Neighborhood Energy Saver Program 23

3. Low-Income Weatherization Pay for Performance Pilot Program 26

4. Supplemental Security Income Bill Discount Program 27

5. Share the Light Program [SM] 28

6. Helping Home Fund ("HHF") 29

a. Duke Energy Perspective 30

i. WPERP Ecosystem and Hurdles 31

ii. NES Program Expansion 32

iii. HHF Program Transition 32

iv. SSI Program 33

OFFICIAL COPY
Sep 26 2023

B. Metrics of a Successful Program 34
1. Duke Energy Perspective 35
C. Disconnection for Nonpayment Practices and Regulatory Provisions 36
1. Duke Energy Perspective 39
D. Existing Utility and External Funding Sources and the Utility's Opportunities to Collaborate and Partner with Third-Party Agencies and Organization to Deliver Affordability Programs 40
E. Cost-of-Service Allocation Effect on Rate Design and Affordability of Rates 41
1. Duke Energy Perspective 43
F. How Existing Programs Address Affordability, Cost-Causation, and Allowance of Costs Among Classes 43
1. Duke Energy Perspective 44
G. Review of EE/DSM and CRR Collaborative Efforts to Assist Low-Income Customers 45
IV. Jurisdictional Trends, Metrics, and Definitions for "Affordability" 45
A. Program Eligibility Requirements 46
B. Affordability Defined and Applied in Other Jurisdictions 47
1. Duke Energy Perspective 49
V. Overview of 3(e) Programs 50
A. Duke Energy and Public Staff Perspective 51
VI. LIAC Proposals 59
A. Duke Energy Perspective 77
VII. Duke Energy and Public Staff Recommendations 84
VIII. Public Staff Perspective on the LIAC 85
IX. Conclusion 86

OFFICIAL COPY
Sep 26 2023

LIAC Final Report
Table of Appendices

APPENDIX A **92**

LIAC February 21, 2022 Commission Briefing Presentation

APPENDIX B **101**

LIAC Approved Stakeholder List (Organization List Only)

APPENDIX C **103**

LIAC Version 4 Analytics

APPENDIX D **229**

LIAC Assessment

APPENDIX E **252**

LIAC Workshop VIII

APPENDIX F **325**

LIAC January 26, 2022 Joint Collaborative Meeting Breakout Session Feedback/Comments

APPENDIX G **412**

LIAC Proposals

APPENDIX H **502**

LIAC Workshop VII

APPENDIX I **538**

LIAC Workshop IX

OFFICIAL COPY
Sep 26 2023

STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH

DOCKET NO. E-7, SUB 1213
DOCKET NO. E-7, SUB 1214
DOCKET NO. E-7, SUB 1187
DOCKET NO. E-2, SUB 1219
DOCKET NO. E-2, SUB 1193

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-7, SUB 1213 In the Matter of Petition by Duke Energy Carolinas, LLC, for Approval of Prepaid Advantage Program DOCKET NO. E-7, SUB 1214 In the Matter of Application by Duke Energy Carolinas, LLC, for Adjustment of Rates and Charges Applicable to Electric Utility Service in North Carolina DOCKET NO. E-7, SUB 1187 In the Matter of Application of Duke Energy Carolinas, LLC for an Accounting Order to Defer Incremental Storm Damage Expenses Incurred as a Result of Hurricanes Florence and Michael and Winter Storm Diego DOCKET NO. E-2, SUB 1219 In the Matter of: Application of Duke Energy Progress, LLC for Adjustment of Rates and Charges Applicable to Electric Service in North Carolina	**FINAL REPORT AND RECOMMENDATIONS OF THE NORTH CAROLINA LOW-INCOME AFFORDABILITY COLLABORATIVE**

OFFICIAL COPY
Sep 26 2023

DOCKET NO. E-2, SUB 1193	)
	)
In the Matter of:	)
Application of Duke Energy Progress,	)
LLC for an Accounting Order to Defer	)
Incremental Storm Damage Expenses	)
Incurred as a Result of Hurricanes	)
Florence and Michael and Winter Storm	)
Diego	)
	)

I. Background

A. Procedural History

In response to Duke Energy Progress, LLC's ("DEP") and Duke Energy Carolinas, LLC's ("DEC", collectively, "Duke Energy" or "the Companies") request for the North Carolina Utilities Commission (the "Commission" or "NCUC") to convene a Low-income Affordability Collaborative ("LIAC" or "Affordability Collaborative"), the Commission established the Affordability Collaborative in its March 31, 2021 Order Accepting Stipulations, Granting Partial Rate Increase, and Requiring Customer Notice in Docket No. E-7, Subs 1213, 1214, and 1187 and its April 16, 2021 Order Accepting Stipulations, Granting Partial Rate Increase and Requiring Customer Notice in Docket No. E-2, Subs 1219 and 1193 ("Rate Case Orders"). In those Rate Case Orders, the Commission directed Duke Energy and the Public Staff – North Carolina Utilities Commission ("Public Staff") to convene a collaborative for interested stakeholders within 90 days of the Rate Case Orders to address the affordability of electric service for low-income customers.

The Commission further ordered that Duke Energy and the Public Staff briefly summarize the progress made by the Affordability Collaborative within 180 days of DEC Rate Case Order date and provide quarterly progress reports thereafter. Pursuant to the

OFFICIAL COPY
Sep 28 2023

Rate Case Orders, Duke Energy and the Public Staff filed the following progress reports with the Commission:

- 180-day Progress Report: Duke Energy and the Public Staff filed the 180-day Progress Report with the Commission September 27, 2021 ("180-day Progress Report").
- Q4 Progress Report: On January 18, 2022, Duke Energy and the Public Staff filed a progress report with the Commission summarizing LIAC activities through the fourth quarter of 2021 ("Q4 Progress Report").
- Commission Briefing: On February 4, 2022, the Commission issued an Order Requiring a Briefing on the Affordability Collaborative. In the Order, DEC and DEP, together with the co-leaders of the LIAC's four Sub-Teams, were directed to present a briefing to the Commission regarding the work of the LIAC. The co-leaders of the Sub-Teams presented to the Commission on February 21, 2022. The presentation is attached as Appendix A.
- Q1 Progress Report: On April 12, 2022, Duke Energy filed a Motion for Extension of Time to file the first quarter 2022 progress report summarizing LIAC activities between January through March 2022 ("Q1 Progress Report"). On April 14, 2022, the Commission granted Duke Energy's request for additional time, and Duke Energy and the Public Staff filed the Q1 Progress Report on April 25, 2022.

The Rate Case Orders also require that Duke Energy and the Public Staff file a joint final report with the Commission outlining the feedback and recommendations obtained in the LIAC within 12 months of the date of the first workshop ("Final Report")[1]. This Final

[1] On July 24, 2022, Duke Energy and the Public Staff filed a Joint Motion for Extension of Time to file the Final Report with the Commission. On July 27, 2022, the Commission issued an Order Granting the Joint Motion for Extension of Time (the "Order"). The Order extended the filing deadline from July 29, 2022, to August 12, 2022.

OFFICIAL COPY
Sep 26 2023

Report summarizes the efforts, progress, and proposals of the LIAC as well as Duke Energy and the Public Staff's perspective regarding the same. Pursuant to the Rate Case Orders, the remaining LIAC participants will provide their comments and perspectives after the Commission issues a procedural order allowing for the public and interested parties to comment on the Final Report.

B. Key LIAC Activities to Date

On July 29, 2021, the LIAC hosted its initial meeting led by Guidehouse[2], the third-party facilitator. This was the first of nine LIAC workshops. Four Sub-Teams, comprised of a diverse group of Commission approved stakeholders[3], led and supported the analysis and work required to be completed by the LIAC, as described in the Rate Case Orders. In total, the four Sub-Teams held over 50 meetings to discuss and investigate affordability challenges for DEC and DEP residential North Carolina customers. As noted in the Rate Case Orders approving the LIAC, the opportunity for information sharing and alignment with the other collaboratives/working groups was an important objective of this process. On January 26, 2022, the LIAC hosted a joint workshop with members of both the Energy Efficiency Demand Side Management ("EE/DSM") and Comprehensive Rate Review ("CRR") collaboratives. The work led by the four Sub-Teams is described below.

Sub-Team A Prepared assessment of current affordability challenges facing residential customers:

- Assessed demographics by race, age, income, housing type, heating source, family size, housing value, and location
- Segmented by household income for DEC, DEP, and combined

[2]For purposes of transparency and to engage an experienced and independent third party, Duke Energy issued a request for proposals ("RFP") to a list of potential facilitators. Prior to issuing the RFP, Duke Energy worked with the Public Staff, the North Carolina Attorney General's Office ("NCAGO"), and North Carolina Justice Center ("NCJC") in drafting the RFP and identifying the potential bidders. Duke Energy and the Public Staff secured Guidehouse, Inc. ("Guidehouse") to serve as a third-party facilitator for the Affordability Collaborative's initiatives.

[3] See Appendix B

OFFICIAL COPY
Sep 26 2023

- Analyzed billing data and arrears by average energy usage, average bill, past due amounts, disconnect non-pay, energy intensity, and seasonal impacts across all demographics
- Identified additional areas to analyze including disconnect non-pay (DNP) notifications, electric energy burden, and mobile homes
- Developed statistical models to enhance descriptive analytics
- Developed and shared initial findings related to customer challenges

Sub-Team B Jurisdictional Trends, Metrics, and Definitions for "Affordability"

- Identified and researched existing utility or state programs and metrics designed to address affordability
- Engaged subject matter experts to brief sub-team
- Investigated affordability criteria used by state or utility programs to identify program administration alignment opportunities
- Compiled findings into matrix for LIAC review

Sub-Team C Investigated existing customer offerings and practices, in addressing affordability

- Provided an overview of the following Duke Energy offerings that are income-qualified:
  - EE programs
  - Bill Pay Assistance program
  - Helping Home Fund Program
  - DEC Supplemental Security Income Bill Discount Program
- Compiled program-specific participation data requested by Commission filed in the Q1 Progress Report
- Provided overview of rate design concepts including cost of service, cost causation and cost allowances
- Provided rate design concept overview for sub-team members and support associated analyses related to minimum bill versus fixed charge and segmentation by residential class
- Overview of income-based rates and discount programs Virginia's Proposed Percent of Income Payment Plan
- Reviewed existing programs; developed program proposal process; and solicited potential proposals to be provided to the LIAC no later than April 8, 2022)

Sub-Team D Review of EE/DSM and CRR Collaborative Efforts to Assist Low Income Customers

- Held a joint meeting with members of the LIAC, EE/DSM, and CRR collaboratives on January 26, 2022
- Identified cross-collaborative participants and designated Duke Energy, the Public Staff and community/industry cross-collaborative liaisons

OFFICIAL COPY
Sep 26 2023

- Added standing agenda item to regular LIAC sessions for sharing EE/DSM and CRR collaborative updates
- Shared customer demographic assessment data with EE/DSM and CRR collaboratives

II. Current Affordability Challenges

A. Overview of Sub-Team A's Assessment of Current Affordability Challenges Facing Residential Customers

As directed by the Commission, Duke Energy gathered data to address the following directives outlined in the Rate Case Orders:

> a. Provide an analysis of demographics of residential customers, including number of members per household, types of households (single family or multi-family), the age and racial makeup of households, household income data, and other data that would describe the types of residential customers the Company now serves. To the extent demographics vary significantly across the Company's service area, provide additional analysis of these demographic clusters.
>
> b. Estimate the number of customers who live in households with incomes at or less than 150% of the federal poverty guidelines ("FPG"), and those whose incomes are at or less than 200% of the FPG.
>
> c. For the different demographic groups identified as part of a. and b., provide an analysis of patterns and trends concerning energy usage, disconnections for nonpayment, payment delinquency histories, and account write-offs due to uncollectibility.[4]

The final version of the analytics is included in this Final Report as Appendix C, and the results are detailed in the Assessment of Customer Challenges Relating to Electric Energy Affordability ("Assessment") as Appendix D. [5] The analytics represent customer data generated March 1, 2019 through February 29, 2020 ("pre-COVID period") and serve as the primary basis for the Assessment. In response to feedback and requests from LIAC

[4] See DEC Rate Case Order at 176-179; DEP Rate Case Order at 186.
[5] Version 3 of the Assessment was provided to the Commission in the Q4 Progress Report. Version 4 was provided in the Q1 Progress Report.

OFFICIAL COPY
Sep 26 2023

members, Duke Energy updated the analytics to include additional customer data attributes and analysis discussed further below.

As part of the LIAC process, Duke Energy presented data on the following customer segments stratified as follows: (1) Low-Income Energy Assistance Program ("LIEAP")/Crisis Intervention Program ("CIP")[6] participants, (2) less than 150% of the FPG, (3) between 150% and 200% of the FPG, (4) above 200% of the FPG, (5) meets arrears struggling definition, and (6) does not meet arrears struggling definition. In order to provide a unique supplemental look at electricity affordability and associated impacts for residential customers, the Duke Energy team developed an "arrears struggling" definition that is not directly based on income, but rather on the frequency and extent to which certain customers find themselves late in paying their monthly electric bill and/or being significantly behind on their bill. For the purpose of these analyses, Duke Energy defined "arrears struggling" customers as those who (1) were behind on paying their average/regular bill amount for six or more months during the pre-COVID period, **or** (2) were behind by twice the amount (or more) of their average bill for two or more months during that same pre-COVID period[7]. Duke Energy presented descriptive data analysis of each segment to LIAC members on the following customer demographic and housing characteristics: housing type (single versus multi-family, mobile and manufactured), housing status (owner vs renter), heating source, location, housing value, race, age of the

[6] To supplement and validate research into low-income customers, the North Carolina Department of Health and Human Services and Duke Energy executed an Amendment to an existing Data Sharing Agreement permitting Duke Energy to perform analysis on DEC and DEP customers identified as LIEAP and CIP recipients for purposes of the LIAC data analysis only. The LIEAP and CIP programs are intended to help low-income families who need assistance during a financial crisis to ensure they have access to both heating and cooling services.

[7] The arrears struggling definition is used throughout the LIAC report for the purposes of the LIAC analysis only. The definition was shared with LIAC members and used in LIAC materials without objection.

OFFICIAL COPY
Sep 26 2023

account holder, and number of people in the household. The demographic and housing data was purchased from a third party, Acxiom, which Duke Energy primarily purchased for marketing purposes. In response to requests from the LIAC Sub-Team A members, Duke Energy updated the analytics to also include information detailing the following: Advanced Metering Infrastructure ("AMI") load shapes, additional insights to Acxiom data in comparison to census data,[8] tables including relative information detailed in graphs, insight to energy intensity, electric energy burden, sub-category housing including mobile homes, statistical modeling and analysis of disconnect non-pay notifications.

Duke Energy performed a comparison of information segmented by both income and arrears for DEC and DEP residential accounts included in the analysis. The analysis did not find any significant differences between the two utilities, and therefore the analytics reflect information for DEC and DEP collectively.

In response to requests from LIAC members for non-public customer information, including energy usage information, Duke Energy filed a Request for a Time-Limited Waiver of Certain Code of Conduct Provisions, seeking Commission approval to share the non-public customer information, without specific customer identification and aggregated to a zip code level, with LIAC members. The Commission issued an order on March 10, 2022 with conditions to provide zip code level data to Sub-Team A members. One such condition required Duke Energy to file a Memorandum of Understanding ("MOU") with Guidehouse within 30 days of the date of the order detailing the procedures for Sub-Team A members to request, receive, and destroy aggregated zip code level data[9]. On April 22, 2022, Guidehouse sent a communication to Sub-Team A detailing the process to request

[8] See Appendix C at 4-7.

OFFICIAL COPY
Sep 26 2023

and receive zip-code level data in accordance with the filed MOU. On June 24, 2022, a member of Sub-Team A requested the information which was provided on July 7, 2022.

1. Overview of Sub-Team A's Analysis of the Number of Customers Living in Households with Income at or Less than 200% of the FPG

Duke Energy used LIEAP and CIP participation to supplement Acxiom data to identify low-income customers. To qualify for LIEAP funds, participants must have an income of less than 130% of the FPG,[10] and to qualify for CIP assistance, participants must have an income of less than 150% of the FPG. Also, Duke Energy does collect the age of account holder in the billing system, so that data was used over Acxiom's age data.

Per Duke Energy's analysis of eligible North Carolina residential accounts from the pre-COVID period, approximately 29% of these residential accounts served by DEC and DEP qualify as low-income, with a household income of 200% of the FPG or less (see Table 1 below). For the 29% of the accounts identified at or below 200% of the FPG, approximately 11% are between 150% and 200% of the FPG, 16% are less than 150% of the FPG, and the remaining 2% of the accounts are LIEAP/CIP recipients. The 29% of low-income customer accounts represent approximately 710,000 of the 2.4 million households included in the analysis (using data from the pre-COVID period). However, assuming the percentage has not declined since February 2020, 29% of Duke Energy's currently reported residential customer base of 3.07 million equates to 900,000 accounts qualifying as low-income. The 3.07 million residential accounts include all North Carolina residential active accounts as of September 30, 2021, regardless of how long the account

[10] The eligibility requirement as of March 31, 2022 was 130% of the FPG when the Version 4 analytics in Appendix C were shared with LIAC members. Duke Energy recognizes that Governor Cooper recently approved an increase in the new LIEAP income eligibility requirement from 130% to 150% of the FPG on July 11, 2022.

OFFICIAL COPY
Sep 26 2023

was active[11]. In comparison, the 2.37 million residential accounts in the analysis reflect residential accounts active for the entire pre-COVID period from March 2019 through February 2020.

Table 1: Number of Customers at FPG Levels			
Category	% All Customers	No. Customers (2.37M)	No. Customers (3.07M)
LIEAP/CIP	2%	53,595	67,785
< 150% FPG	16%	385,339	487,365
150 - 200% FPG	11%	271,432	343,299
Total low-income	**29%**	**710,366**	**898,448**

Per Duke Energy's analysis, approximately 16% of the residential customer base (of the ~2.47 million customers included in the arrears analysis) met Duke Energy's arrears struggling definition, amounting to 395,204 customers. If this percentage were applied to the 3.07 million reported residential customers as of September 2021, the number of customers meeting Duke Energy's arrears struggling definition would be approximately 490,000.

2. Overview of Sub-Team A's Analysis of Patterns and Trends Concerning Energy Usage, DNPs, Payment Delinquency Histories, and Account Write-Offs Due to Uncollectability

Within each of the customer segments, Duke Energy provided data on average monthly kilowatt-hour ("kWh") usage, kWh usage per square foot, customers meeting Duke Energy's definition of arrears struggling, electric energy burden, 10-day and 24-hour notifications of DNP and executed DNPs. In addition, Duke Energy provided analyses on attributes by usage per month, average seasonal load shapes, and average peak day load shapes.

[11] See Docket No. M-100, Sub 158.

OFFICIAL COPY
Sep 28 2023

Energy intensity is defined as the number of kilowatt hours per square foot and is a driving factor in low-income affordability challenges, likely in part due to housing inefficiencies. Low-income households, specifically LIEAP/CIP recipients and arrears struggling households, on average have a much higher energy intensity than non-low-income customers (> 200% FPG), as do (1) rural households, (2) younger customers, (3) customers living in low-value housing, (4) multi-family and mobile/manufactured homes households, and (5) rental households.

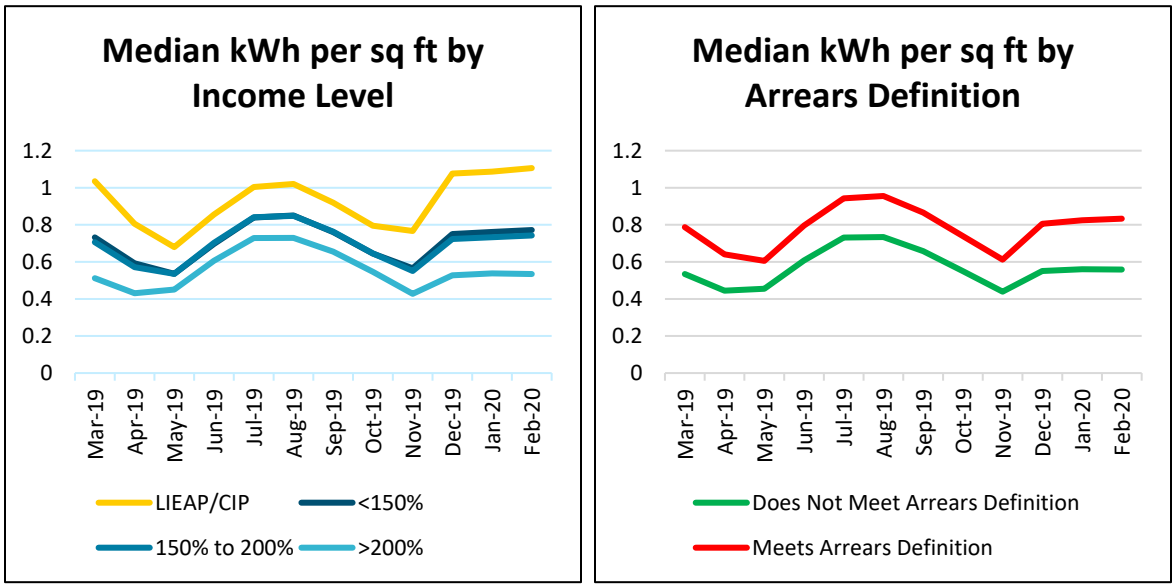
Additionally, Duke Energy's findings on seasonal usage for low-income and arrears struggling households indicate that a correlation may exist between higher usage and bills and inefficient housing, heating, and cooling systems. The analysis identified that low-income households use more energy in the winter and have higher winter bills than non-low-income households, but that the arrears struggling households use more energy year-round -- nearly 20% more in the summer and 30% more in the winter than non-arrears struggling households.

Other key findings from Duke Energy's analysis highlight the interplay between income level, energy intensity, and energy usage are as follows:

- Compared to non-low-income households, LIEAP/CIP recipient households experience an energy intensity that is 100% higher in the winter and approximately 40% higher in the summer.
- Non-LIEAP/CIP low-income customer energy intensity is about 33% higher than non-low-income households in winter and 14% higher in the summer.
- Arrears struggling households use 50% more energy per square foot in the winter and 33% more in the summer than households that did not meet the arrears struggling definition.
- Arrears struggling customers have a ~160% higher total bill in peak winter months (133% higher in peak summer months) than non-low-income households.
- LIEAP/CIP customers have a 100% higher total bill peak in winter months and ~70% higher in peak summer months than arrears struggling customers.

OFFICIAL COPY
Sep 26 2023

The graphs below show the median energy intensity for customers by income level (left) and arrears status (right).



Sub-Team A identified areas where additional statistical analysis could potentially be helpful to expand on the descriptive analytics to support the objectives of the LIAC. This was a more advanced analysis that helped the LIAC members better understand what was driving affordability challenges for low-income customers. Duke Energy committed to enhancing the analytics to support the Assessment. That analysis was presented on March 31, 2022 in LIAC Workshop 6 as part of Version 4 of the Analytics. Three logistic models were also created in response to stakeholder feedback to show: (1) the likelihood of low-income customers to meet the arrears definition, (2) the likelihood of low-income customers to receive a 24-hour disconnect notice, and (3) the likelihood of low-income customers to be disconnected given that they received a 24-hour DNP notice to be disconnected. The three logistic regression models assessed the relationship between each

OFFICIAL COPY
Sep 26 2023

outcome and certain predictors,[12] which included 11 attributes: home value, electric energy burden, summer impact, winter impact and heat source, age of account holder, age of home, race, household size, population density, housing status and type, and education. The Assessment completed by Sub-Team A contains a detailed write-up of each of these models[13].

In general, most of Duke Energy's predictors had statistically significant impacts on the likelihood of a low-income customer meeting Duke Energy's definition of arrears struggling and/or being at risk of receiving a notice and being disconnected from service for non-payment. Sub-Team A found that electric energy burden, winter impact, and summer impact are the key factors that both predict being in arrears and are most capable of being addressed and improved through new programs and policies.[14] Reducing a household's winter impact appears to show the greatest potential for reducing the likelihood a household will fall into arrears, given that at even one category above the baseline, households[15] were 53% more likely to be in arrears, and at five categories above baseline, households were 129% more likely. Electric energy burden and summer impact were similar in the magnitude of their impact for groups above the baseline categories.

In addition, reducing household electric energy burden should also address financial insecurity concerns overall by lowering the overall amount of income going towards customers' electric bills. Household attributes were also statistically significant at

[12] Predictors are used in the Appendix C Analytics Version 4 statistical modeling. For example, the Age of Account Holder attribute used a Baseline of 55 Years Old. Predictors of age 18, 25, 35, 45, 65, and 85 are analyzed to show likelihood compared to the Baseline.
[13] See Appendix D at 7-18.
[14] For purposes of the statical analysis included on page 24-29 of Appendix C, the winter impact and summer impact reference the load increase over average monthly load. The impact is calculated by subtracting the average monthly load by the highest seasonal load.
[15] See Appendix C at 27.

OFFICIAL COPY
Sep 26 2023

predicting being in arrears and suggest that focusing on renters across all types of homes (i.e., single family and multi-family) could reduce the likelihood of households falling into arrears based on Duke Energy's arrears struggling definition for the affordability analysis. Demographic and neighborhood characteristics were statistically significant in predicting the likelihood of those households that meet the arrears struggling definition in the affordability analysis. These results may provide guidance for program design or targeting outreach efforts to certain social groups, neighborhoods, and areas, but it is difficult to identify patterns regarding the age of the account holder, home value, and age of the home given that those variables utilized showed non-linearity in the models. Furthermore, race, education, and the size of a household were also significant predictors.

Regarding the likelihood of falling into the arrears struggling category, the predictors described above show that energy use-related factors significantly impact the likelihood that a customer received a 24-hour notice of disconnection for non-payment—winter impact once again showing the greatest magnitude among the energy use categories[16]. Finally, for those households receiving a 24-hour notice, energy use and age of the home were both statistically and practically significant. Those important data points suggest that focusing on reducing usage in both winter and summer and/or focusing on renters generally would reduce the likelihood of DNP once a household has received a notice. In addition, reducing household's electric energy burden would also reduce the likelihood of disconnections. Sub-Team A noted, however, that account holders with higher electric energy burdens were less likely to receive a 24-hour notice.

[16] See Appendix C at 28 for additional details.

OFFICIAL COPY
Sep 26 2023

B. Duke Energy Perspective

1. Overview of Analytics and Sources of Data

Duke Energy partnered closely with the Affordability Collaborative members to identify, assess, and analyze the demographics information described above for residential customers. The analyses performed by Duke Energy are specific to assessing current electric energy affordability challenges facing residential customers. As discussed with LIAC members, Duke Energy recognizes there is a high likelihood that these same customers may face additional affordability challenges that expand beyond the scope of electric energy.

Acxiom is a third-party provider for demographic information that is primarily used for marketing by Duke Energy. They collect available information at the household level by using public data, buying activity, online registrations, magazine subscriptions, survey data, warranty information, etc. If this information is not available, they use other known variables of customers and information at the zip+4 and zip level using their proprietary model. They then optimize those data points to resemble the U.S. Census norms to the highest accuracy rate possible. This was the best information that was available for Duke Energy since we do not collect many of these demographics (such as race, income, etc.) and housing characteristics directly from our customers.

As discussed in Section II.A above, the analysis required Duke Energy to use demographics and income data obtained from third-party sources such as Acxiom and the North Carolina Department of Health and Human Services ("NCDHHS"). The demographics and income data obtained from Acxiom and the NCDHHS is not integrated in the Companies' billing system. Per Duke Energy's agreement with NCDHHS, the

OFFICIAL COPY
Sep 26 2023

LIEAP/CIP recipient data provided was not used for any purpose outside of the LIAC analysis.

2. Data Attributes Assessed for the LIAC

Although Duke Energy was able to provide a comprehensive analysis and incorporate additional data attributes at the request of the LIAC in the Analytics and discussed in the Assessment, there were certain attributes that Duke Energy did not include. For instance, LIAC members requested the analysis include affordability attributes beyond electric energy such as food deserts and health care deserts. Because these areas of focus were both outside the scope of the LIAC and required data that was not readily available to Duke Energy, the request was not fulfilled because the performed analysis reflects affordability challenges specific to electric energy.

It is also important to note that Duke Energy was only able to analyze electric energy burden, and not the "full energy burden" which would include additional information for other utilities. Additionally, although the third-party data paints an accurate picture, the modeling used to perform the analysis is not exact. As such, the LIAC analytics reflects the best information Duke Energy had available at the time of analysis and, therefore, should be considered directionally accurate but not exact. As discussed further below, the analysis revealed important information and trends that will inform Duke Energy's consideration for programs and policies to assist customers facing affordability challenges.

Overall, Duke Energy agrees with the key findings that were stated in the Assessment. The Companies' key findings are as follows:

- Customers who are LIEAP/CIP recipients specifically have an opportunity for bill pay assistance and energy efficiency measures. Customers who meet the arrears

OFFICIAL COPY
Sep 28 2023

struggling definition, which has 13% of customers who are above 200% FPG, also show opportunities in both winter and summer seasons. Customers who meet the arrears struggling definition use more energy year around but use 20% more in the summer and 30% more in the winter.

- Household attributes were also statistically significant at predicting being in arrears and suggest that focusing on renters across all types of homes (i.e., single family and multi-family) could reduce the likelihood of households falling into arrears based on Duke Energy's arrears struggling definition for the affordability analysis.
- The data results support opportunities for energy efficiency investment, especially in the winter months, to positively impact low-income households to reduce electric energy burden and energy intensity.

As discussed further in Section III below, Duke Energy, through partnerships with state agencies, currently offers energy efficiency programs to low-income customers; however, participation rates are very low. Duke Energy strongly believes that participation in energy efficiency opportunities could help lower the electric energy burden resulting in reducing arrears and DNPs. The Companies are committed to working with other organizations including leadership with NC Department of Environmental Quality State Weatherization Department ("NCDEQ") to increase the number of low-income customers receiving weatherization services.

III. Investigation of Current Programs

As directed by the Commission, the LIAC investigated the strengths and weaknesses of existing rates, rate design, billing practices, customer assistance programs and energy efficiency programs in addressing affordability and addressing the following questions:

a. What defines a "successful program" and what metrics should be monitored and presented that show the impact of programs on addressing or mitigating affordability challenges?
b. What percentage of residential customers are eligible for each existing program, and what percentage of eligible customers enroll in and/or take advantage of these programs?
c. What is the impact of existing programs on the energy burden for enrolled customers?

OFFICIAL COPY
Sep 26 2023

d. Should existing programs be maintained, replaced or terminated? If maintained, should any changes be made to improve results? If programs are replaced, what would replace them?
e. (addressed in Section V of the Final Report).
f. How do specific programs addressing affordability affect cost-causation and allowance of costs among classes?
g. How does cost-of-service allocation affect rate design and affordability of rates?
h. What, if any, practices and regulatory provisions related to disconnections for nonpayment should be modified or revised?
i. What existing utility and external funding sources are available to address affordability? Estimate the level of sources that would be required to service additional customers.
j. What are the opportunities (and challenges) of the utilities working with other agencies and organizations to collaborate and coordinate delivery of programs that affect affordability concerns?

A. Assessment of Current Income-Qualified Programs

Sub-Team C members reviewed Duke Energy's current offering of income-qualified energy efficiency and bill pay assistance programs that address customer's affordability challenges. The specific programs reviewed and evaluated by Sub-Team C members and presented to the LIAC members included:

- Residential Income-Qualified Energy Efficiency and Weatherization Assistance for Individuals
- Residential Services Neighborhood Energy Saver Program
- Low-Income Weatherization Pay for Performance Pilot
- Helping Home Fund Program
- Share the Light Program
- Supplemental Security Income ("SSI")

The listed programs address affordability in various ways, e.g., customers participating in energy efficiency programs (and their associated supporting programs such as the Helping Home Fund) realize a reduction in their electric energy usage while customers participating in bill discount and bill pay assistance programs experience a reduction of their total bill amount. Below is a summary overview of each listed program and its role in addressing affordability.

OFFICIAL COPY
Sep 26 2023

1. Residential Income-Qualified Energy Efficiency and Weatherization Assistance for Individuals ("Weatherization Program and Equipment Replacement Program")

Duke Energy's Weatherization Program and Equipment Replacement Program ("WPERP") is available for income-qualified customers in the DEC service territory residing in existing, individually metered single-family homes, condominiums, and mobile homes. The program funds weatherization measures, heating system replacement with a 14 or greater Seasonal Energy Efficiency Rating ("SEER") heat pump[17] and refrigerator replacement with an ENERGY STAR appliance[18]. Program participants receive a full energy audit[19] and assistance for energy efficiency measures based on energy usage. Higher energy intensity customers are eligible to receive additional funding to install more energy saving measures as outlined below.

Eligible WPERP participants must live in an individually metered single-family home and have a household income less than or equal to 200% of the FPG. The WPERP divides weatherization services participants into two tiers based on electric energy usage. Participants that have energy usage up to 7 kWh per square foot of conditioned space are in Tier 1 and may receive up to $600 for energy efficiency services. Participants that have energy usage of more than 7 kWh per square foot of conditioned space are in Tier 2 and may receive up to $4,000 for energy efficiency services. In addition, eligible customers may receive equipment upgrades for a HVAC replacement of an electric heating system

[17] The SEER measures air conditioning and heat pump cooling efficiency, which is calculated by the cooling output for a typical cooling season divided by the total electric energy input during the same time frame.
[18] Products that earn the ENERGY STAR label meet strict energy-efficiency specifications set by the U.S. Environmental Protection Agency.
[19] Full energy audit refers to having an energy expert evaluate the structure, systems and equipment to determine condition and opportunities to improve the energy efficiency of the home. The audit results determine which energy saving measures and improvements should be implemented by the weatherization agency. Health and safety issues that need to be resolved are also provided.

OFFICIAL COPY
Sep 26 2023

and ENERGY STAR refrigerator. The replacement cost for an eligible electric heating system and ENERGY STAR refrigerator is up to $6,000 and $1,080, respectively[20]. The average investment per participant in 2020 is $4,741[21] for Tier I and Tier II weatherization and $898 for refrigerator replacement.

Duke Energy customers must be certified as having a household income that qualifies for the State of North Carolina Weatherization Assistance Program. Duke Energy's WPREP is administered through a non-profit, third-party organization that coordinates with the 20 NC Weatherization Assistance Providers ("NCWAP") to offer participants a full energy audit alongside subsequent weatherization measures and potential equipment and refrigerator replacement. Approximately, 33% of DEC's residential customers at 200% or less of the federal poverty level guidelines are eligible for the program. Since the program's inception, only 0.068% of eligible customers have participated in the programs. The low participation rate is attributed to various barriers, including the need for health and safety repairs to occur prior to installing energy efficiency measures, e.g., a participant with a hole in their roof may not receive insulation until the hole is repaired.

Duke Energy does not collect income-level household data from participants. The household income information used is based upon data from Acxiom and is applied to calculate the electric energy burden. This is similar to the process used to create the Assessment discussed in Section II of this report. This information, along with the impacts

[20] Tier I measures include air sealing, low-cost energy efficiency upgrades like LEDs, domestic water heater tank insulation, low-flow shower heads, and faucet aerators. Tier II measures include Tier I measures plus insulation improvements. Refrigerator replacement eligibility and incentive levels depend on the old refrigerator's size and a two-hour metering test.

[21] Average investment per participant is above the base Tier 1 and Tier 2 limit as the Program added up to $6,000 for HVAC replacement to Tier 2 starting in 2020.

OFFICIAL COPY
Sep 26 2023

from the most recent final Evaluation, Measurement and Verification ("EM&V ") data reports[22] for Duke Energy's low-income energy efficiency programs, is used to calculate the energy burden impact for these energy efficiency programs including WPERP. However, the EM&V reports provide information at an aggregate level (i.e., at an average participant level); therefore, Duke Energy is unable to ascertain the specific household level impacts of its existing programs on its customers.

The EM&V savings for the Weatherization Tier 2 total impacts are calculated by determining the program participants' energy usage before and after program participation, which is then measured against a direct comparison group. Engineering estimates are utilized to evaluate the relative savings contribution of each measure in the program. Simply put, the EM&V examines impacts based on consumption. Efficiency standards and baselines were not factored into the calculation. Alternatively, Weatherization Tier 1 and Refrigerator Replacement impacts are generally the results of engineering analysis which utilizes algorithms to determine energy and demand savings via engineering equations.

The general approach for estimating a customer's electric energy burden and calculating the impact of applicable programs is as follows:

- The average income, kwh consumed, and bill amount of program participants is calculated.
- Each customer is assumed to have had the same kwh savings based on EM&V numbers blended between DEC and DEP NC, when applicable, by FPG level.
- The bill is then recalculated as if the customer did not achieve the kWh savings.

[22] The source of the impacts for the electric energy burden analysis are the Low-Income Weatherization Program (2016-2018) Evaluation Report – Final (4/16/2021) EM&V reports filed in Docket No. E-7, Sub 1265 on March 1, 2022 for Tier I, Tier II and Refrigerator Replacement and 2017 Neighborhood Energy Saver Program Evaluation Report Final (11/30/2019) filed in Docket Nos. E-7, Sub 1230 on February 25, 2020 and E-2, Sub 1252 on June 9, 2020.

OFFICIAL COPY
Sep 26 2023

- Using those figures, the electric energy burden is calculated before and after program participation.

Below is a table showing the impact of the applicable programs on the customer's estimated electric energy burden.

Duke Energy Carolinas – North Carolina									
	Refrigerator Replacement			**Weatherization Tier I**			**Weatherization Tier II**		
	Before	**After**	**Change**	**Before**	**After**	**Change**	**Before**	**After**	**Change**
LIEAP/CIP	6.9%	6.8%	0.1%	6.9%	6.8%	0.1%	7.7%	6.8%	0.9%
<150%	6.8%	6.5%	0.3%	6.6%	6.5%	0.1%	7.5%	6.5%	1.0%
150% to 200%	4.0%	3.8%	0.2%	3.8%	3.8%	0.0%	4.3%	3.8%	0.5%

LIAC members discussed opportunities to remove barriers limiting participation in WPERP and evaluate opportunities for additional energy savings for program participants that are detailed below.

<u>WPERP Assessment</u>

While assessing the WPERP, Sub-Team C members posed questions to Duke Energy. Below are the questions, feedback, and recommendations received by the LIAC as a result of the assessment questions.

- What are the challenges of working with other agencies or organizations to collaborate and coordinate the delivery of this program?
    - Duke Energy has limited insight into how customers are prioritized by the NCWAP at the state and local agency level. The number of participants served could be limited by the staffing as well as contracting services available for installation.
- What opportunities are there to work with other agencies or organizations to collaborate and coordinate the delivery of this program?

OFFICIAL COPY
Sep 28 2023

    - NCWAP works directly with the program participants and provides actionable feedback to determine how to expand the program.
- What are the strengths of this program?
    - The services are provided to program participants at no out-of-pocket cost, lower customers' energy bills, provide kWh savings to the Company and allow for investment from multiple funding sources.
- What are the weaknesses of this program?
    - Limitations to being able to address all customer needs at the time of service due to required health and safety investment.
- If given the opportunity, what are three things, you would change or add to this program to make it better and why?
    - Improve state and local agency reporting to provide more visibility into participant status and where health and safety funds are invested and tracking weatherization deferrals. This reporting will provide a greater understanding of any additional funding or program changes needed to enable customers to participate in WPERP.
    - Update the prioritization process of customers eligible for WPERP based on various factors that may include energy intensity, income level, and eligibility for other income-qualified programs and other funds.
    - Establish long-term funding for health and safety repairs to ensure customers are able to continue to receive needed WPERP services.

WPERP Assessment Recommendations**:**

- Identify opportunities to increase program participation through existing network of providers
- Evaluate opportunities to expand network of providers that supports increasing number of program participants
- Work with network providers to identify opportunities for Duke Energy to market program to eligible customers
- Evaluate opportunities with providers for increased health and safety investment

2. Residential Neighborhood Energy Saver Program

Duke Energy's Residential Neighborhood Energy Saver Program ("NES Program") is available to individually-metered residential customers in neighborhoods selected by Duke Energy based on data received by the U.S. Census and Acxiom. The data includes customer attributes such as income level and household size. Areas targeted for

OFFICIAL COPY
Sep 26 2023

participation in this program typically have 50% or more of the households with income equal to or less than 200% FPG. The purpose of this program is to assist low-income participants in reducing energy costs through energy education and by installing or providing energy efficiency measures in the program participant's residence. Households with higher consumption are offered additional measures to address high energy use as discussed further below.

Participating homes receive a walk-through energy audit by Duke Energy's third-party administrator, education on energy efficiency techniques and measures, and a comprehensive package of energy efficiency measures installed by the third-party administrator. The energy efficiency measures recommended for installation may include but are not limited to LED lamps, electric water heater wrap, pipe wrap and low flow devices, electric water heater temperature check and adjustment, wall plate thermometer, window air conditioner winterization kits, and air sealing measures. The NES Program recently began offering additional measures such as attic insulation, duct sealing, air sealing with a blower door, floor insulation in mobile homes and a smart thermostat to eligible customers.[23] Customers that have energy usage of more than 7 kWh per square foot of conditioned space are eligible for the additional measures. Historically, approximately 65% of customers in the selected neighborhoods participate in the NES Program. Although the COVID –19 pandemic reduced participation rates in 2020, 2021 and into 2022, the NES Program has experienced an improvement in participation rates this year.

[23] These measures became available in the third quarter of 2021.

OFFICIAL COPY
Sep 26 2023

Approximately 33% of DEC and DEP's North Carolina customers are eligible for the NES Program.[24] Since the Program's inception, 7.8% and 10% of eligible DEC and DEP customers respectively have participated in the program. The average investment per participant in 2020 was $299 and $329 for DEC and DEP, respectively. [25]

The third-party EM&V evaluator generally uses consumption analyses to verify the program savings unless extenuating circumstances (inequivalent comparison groups) exist. The verified energy savings from the most recent program EM&V at the time of this analysis were 715 kWh per year per DEC and DEP participant. Below is a table showing the impact of the program on the participant's estimated electric energy burden.

	Neighborhood Energy Saver		
	Before	**After**	**Change**
LIEAP/CIP	8.7%	8.3%	0.4%
<150%	8.1%	7.7%	0.4%
150% to 200%	4.6%	4.3%	0.3%

LIAC members discussed opportunities to eliminate barriers that limit participation in NES Program and evaluate opportunities for additional energy savings for program participants as detailed below.

[24] This percentage reflects active residential customers that reside in single family dwellings whose accounts have been identified as <200% FPL from Acxiom. This data may differ slightly from other analytics performed using different eligibility requirements and different timeframes.
[25] The investment per participant totals are corrected amounts. These amounts differ from the totals shared in Workshop VII on May 7, 2022 due to an identified lag in invoice processing.

OFFICIAL COPY
Sep 28 2023

NES Program Assessment

While assessing the NES Program, Sub-Team C members posed assessment questions to Duke Energy. Below are the questions, feedback, and recommendations received.

- What are the opportunities of working with other agencies or organizations to collaborate and coordinate the delivery of this program?
  - Utilize NES Program to refer customers to state agencies for health and safety repairs. Engage local weatherization and agencies in kickoff and neighborhood events to better support customer additional needs.
- What are the strengths of this program?
  - The services are provided at no out-of-pocket cost to program participants. The program is able to serve a large number of customers and provide 1:1 recommendations and improvements for the customer's home.
- What are the weaknesses of this program?
  - Limitations on being able to address all customer needs at the time of service due to required health and safety investment.

NES Program Assessment Recommendations

The recommendations detailed below were identified by LIAC Sub-Team C members and shared with LIAC members:

- Explore expansion into additional energy savings measures such as HVAC repair and replacement opportunities.
- Explore opportunities to partner with additional contractor networks to provide services to qualifying customers who are not located within a "neighborhood".

3. Low-Income Weatherization Pay for Performance Pilot Program

Duke Energy's Low-Income Weatherization Pay for Performance Pilot Program ("LIWPPP")[26] offered in Buncombe County, North Carolina provided incentives based on the kilowatt-hours saved by installing qualified energy efficiency measures that include but

[26] Approved in Docket No. E-2, Sub 1187 on November 27, 2018.

OFFICIAL COPY
Sep 26 2023

are not limited to, attic or wall insulation, air sealing, refrigerator replacement, lighting, or electric water heating measures. The purpose of the 36-month pilot was to find deeper energy savings in qualified homes. Eligible participants were selected by participating weatherization assistance and other non-profit organizations using current U.S. Department of Energy Low-Income Home Energy Assistance Program grant requirements[27]. The LIWPPP was approved to operate through June 30, 2022, by the Commission. At the time of the assessment of the LIWPPP, the EM&V results were incomplete, and therefore the electric energy burden calculation was not performed.

4. Supplemental Security Income Bill Discount Program

DEC offers a bill discount to eligible Supplement Security Income recipients ("SSI Program"). SSI is a federal income supplement program designed to help elderly, blind, and disabled people who have little to no income. SSI provides recipients with cash to meet needs for food, clothing, and shelter. The Commission approved DEC's SSI Program on August 31, 1978, in Docket No. E-7, Sub 237 as an experimental discount rate under the theory that SSI recipients have usage characteristics that differ substantially from the average residential customer and as a result have a smaller impact on system costs. The SSI Program provides customers that use more than 350 kWh per month a discount of $3.17. For customers that use less than 350 kWh per month, the bill discount is equal to the total kWh x 0.9054 cents. Approximately 10,000 DEC customers were enrolled in the SSI bill discount as of April 2022.

To be eligible for the SSI Program, the primary account holder must:

- Be a residential customer in the DEC service area;

[27] The requirement for participants is they must be less than 200% of the federal poverty guidelines, with the number of disabled, elderly, and minors in the household taken into consideration, as well as a high energy burden)

OFFICIAL COPY
Sep 28 2023

- Receive SSI;
- Be either blind, disabled, or 65 years of age and older; and
- Be the head of household and/or the principal wage earner.

Program Assessment

The majority of LIAC members support a bill discount to eligible income-qualified customers. Although the SSI Program is only available to DEC customers, the LIAC did not recommend it be expanded to DEP customers at this time.

As discussed further below in Section VI, Program Proposal 24, Customer Affordability Program,[28] proposes a bill discount for eligible DEC and DEP customers. If the Customer Affordability Program is approved by the Commission, DEC would recommend discontinuing the SSI Program and enrolling current SSI Program customers in the approved program.

5. Share the Light Program SM

Duke Energy's Share the Light Program is a customer assistance program that supports our most vulnerable low-income customers who need assistance paying their energy bills. The program is funded by contributions from employees, customers, and shareholders. Funds are matched by the Duke Energy Foundation. The customer assistance program has been available for over 30 years and has provided over $42M in assistance and serves over 5,000 households per year. Customers make contributions through various channels including notation on the monthly bill, a one-time payment via check, money order, online, or bill roundup.

[28] The bill discount program was referred to as the Customer *Affordability* Program throughout the LIAC and in the Companies' Proposal 24; however, the Companies recently renamed the program and refer to it as the Customer *Assistance* Program in the Duke Energy Perspective of Section's VI and will refer to it as the Customer Assistance Program in any future proceedings.

OFFICIAL COPY
Sep 26 2023

The program is administered by the Foundation for the Carolinas and NCDHHS in the DEC and DEP service territories, respectively. Over 100 agencies distribute the funds across the state of North Carolina to provide customers with bill pay assistance for monthly bills, deposits, reconnection charges and connection charges.

Program Assessment

Duke Energy will continue to work with program administrators and partnering agencies to identify opportunities to align the program between DEC and DEP to assist more customers.

6. Helping Home Fund ("HHF")

Duke Energy was the initial funding sponsor of the HHF with a contribution of $20 million to support appliance replacement, health and safety measures, weatherization and heating and cooling replacement and repairs in eligible homes. The program was designed to leverage funds from the State Weatherization Assistance Program, which consists of U.S. Department of Energy Weatherization Assistance Program and Low-Income Energy Assistance Program. Without the HHF, more than 40% of the homes would not have received services. The HHF is administered in coordination with the North Carolina Community Action Association. Since 2015, the program has assisted over 5,000 households. Eligible customers receive a home energy assessment and weatherization assistance to help save on energy bills. Eligible DEP customers may receive all services offered by the HHF while eligible DEC customers may receive all services except weatherization services. If a DEC customer is eligible for weatherization services, the services are provided by the WPERP.

OFFICIAL COPY
Sep 26 2023

Depending on the needs of the customer identified during the home energy assessment, customers may receive:

- Health and safety repairs up to $3,000
- Appliance replacement up to $2,000, including refrigerators, washing machines, and room air conditioners
- Heating and cooling system repairs up to $800

The average investment per home is $5,151.

Program Assessment

The HHF Program is funded by Duke Energy shareholders. The remaining funds are expected to be spent by the year-end 2024.

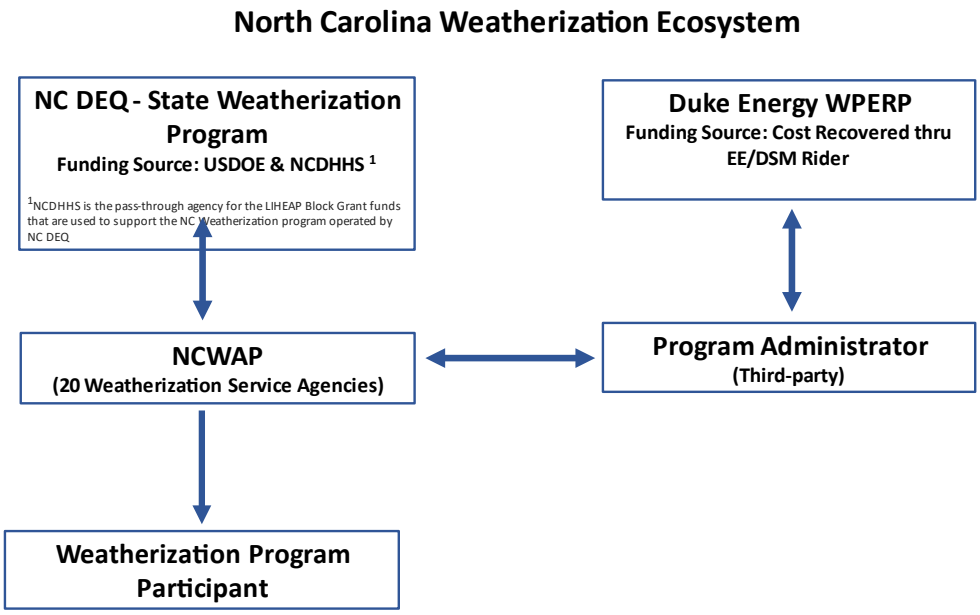
a. Duke Energy Perspective

The assessment of Duke Energy's income-qualified programs by LIAC members identified best practices and opportunities in support of assisting income-eligible customers by providing both energy efficiency programs and bill pay assistance programs. Duke Energy agrees with the LIAC's assessment of the NES, HHF and WPERP. The assessment provides valuable insight for Duke Energy to increase program participation in its existing customer assistance and energy efficiency programs. With regard to specific program assessments, Duke Energy recommends maintaining WPERP and NES. Duke Energy agrees with the LIAC and recommends improvements be made to these existing energy efficiency programs to increase program participation and energy savings that include:

- Identify opportunities to increase program participation through existing NCWAP network and evaluate opportunities to expand the NCWAP network
- Work with NCWAP to identify opportunities for Duke Energy to market the program to eligible customers
- Evaluate opportunities with NCWAP to eliminate participation barriers that include, but are not limited to, limited access to health and safety investment and authorization required by landlords for renter occupied residences.

OFFICIAL COPY
Sep 26 2023

i. WPERP Ecosystem and Hurdles



WPERP is designed to provide eligible weatherization services and install equipment replacements. Through funding from DEC, the U.S. Department of Energy Office and NCDHHS through the North Carolina Department of Environmental Quality State Weatherization Program ("NCDEQ Program"), DEC's WPERP maximizes investment from multiple funding sources for in-depth weatherization services. The collaboration between NCWAP, Duke Energy, and NCDEQ is critical for maximizing energy savings and minimizing incremental costs to eligible customers without duplicating services and confusing customers. The NCWAP is responsible for qualifying eligible customers, prioritizing applications based on defined guidelines, identifying eligible health and safety investment, managing the deferral (waiting list) and evaluating approved household for weatherization programs. DEC's investment in eligible homes reduces the need for investments from other sources that would otherwise be required for energy efficiency improvements; as a result, increased investments are then available for the NCDEQ Program to make in non-DEC homes. DEC has the opportunity to recover its

OFFICIAL COPY
Sep 26 2023

costs for its WPERP through the annual DSM/EE Riders, as provided for in Commission Rule R8-69. Therefore, an increase in customer demand can typically be met by increased funding by DEC to support more qualifying customers. DEC is committed to working with NCDEQ and NCWAP to better understand the hurdles to program participation which include but are not limited to: 1) reasons for deferral applications; 2) opportunities for marketing DEC's WPERP to DEC customers; and 3) limited health and safety investment.

ii. NES Program Expansion

The NES programs have been very well received by targeted neighborhoods, with an average participation rate of 65%, which generally serves a combination of low- and moderate-income households over a multi-month period. The personalized engagement helps build rapport and trust with the customers, resulting in them being more likely to engage with Duke Energy in receiving a variety of energy savings measures that are specific to their household needs. However, and similar to WPERP, the NES program also has opportunities to increase program participation by identifying health and safety investment. Additionally, the Companies will review opportunities to invest in additional resources necessary to expand the NES program offerings.[29]

iii. HHF Program Transition

Funded by Duke Energy shareholders, the HHF currently pays for health and safety repairs and eligible equipment replacements in the DEP and DEC service territories. The health and safety repairs were targeted for funding because they were identified as a key barrier to low-income customers receiving energy efficiency services in their household. In addition, HHF pays for DEP weatherization improvements. Based on recent estimates,

[29] Because the tight labor market in 2021 and 2022 has challenged expansion and operation of the program, Duke Energy would target adding more crews to serve additional customers in the future.

OFFICIAL COPY
Sep 26 2023

the HHF program is currently funded through Q4 of 2024. To mitigate the impact of the HHF program ending, Duke Energy will continue to work with NCDEQ to identify different funding sources for health and safety investments and ways to increase low-income customer participation in WPERP.

DEP's recent filing for approval of its proposed Income-Qualified Weatherization Program will support ongoing funding for weatherization services and replacement of eligible equipment.[30] The pending DEP program proposes to provide weatherization services and replacement of eligible equipment. If the DEP Income-Qualified Weatherization Program is approved, DEP will offer weatherization services and replacement of eligible equipment as an approved energy efficiency program similar to the established DEC program.

iv. SSI Program

The SSI program provides eligible customers a bill discount based on the amount of kWh billed each month. The total program participation is approximately 10,000 customers; with customers age 55 years and older accounting for 85% of the total program participation. The high percentage of participants age 55 years and older is not surprising with age being a component of the SSI program eligibility requirements. In comparison to LIEAP/CIP, approximately 44% of the total LIEAP/CIP recipients are age 55 years and older.

Duke Energy acknowledges that a bill pay assistance program in both the DEC and DEP service territories will assist customers experiencing affordability challenges. As described in Section VI below, Duke Energy is proposing a new bill pay assistant program

[30] See Docket No. E-2, Sub 1299.

OFFICIAL COPY
Sep 26 2023

that supports auto-enrollment for LIEAP and CIP recipients. Once the program is filed and receives Commission approval, DEC would then recommend discontinuing the SSI Program and enrolling current and future eligible SSI Program customers in the new program.

B. Metrics of a Successful Program

The Sub-Team C members discussed a number of data points and desired outcomes for consideration in support of addressing affordability challenges. This information was shared and discussed with LIAC members on June 9, 2022, in LIAC Workshop VIII. The information below details the metrics recommended for monitoring purposes. As noted in the footnotes, the ability to monitor some of the data points is dependent upon the availability of the information and Commission regulatory approval.

Success Criteria: Desired Outcome	**Metrics Recommended to Monitor Program Impact: By Program[31]**
Minimize Barriers for Customers to Participate	• Number of Customers Served • Percent of Customers Served • Percent of Eligible Customers Served • Percent Program Participation by Housing Type
Significantly and Sustainably Help Participating Customers	• Average Electric Burden per Program Participant • Average Arrearages Amount per Program Participant • Percentage of Program Participants Disconnected[32] • Participants at Various Income Levels (50% FPL, 100% FPL, 200% FPL, etc.) • Affordability Ratio[33]

[31] The ability to track these metrics geographically would be valuable. It is important to note that the ability to provide non-public zip code level data publicly will depend on the NCUC approval. There is a pending rulemaking in Docket No. E-100, Sub 161 that involves, in part, disclosure of non-public zip code level data.

[32] This metric could benefit from a more sophisticated calculation to account for economic impacts that are outside the control of Duke Energy.

[33] This metric quantifies the percentage of a representative household's income that would be used to pay for an essential utility service, after non-discretionary expenses such as housing and other essential utility service charges are deducted from the household's income. It is important to note a data source to support this metric may not be available.

OFFICIAL COPY
Sep 26 2023

Success Criteria: Desired Outcome	**Metrics Recommended to Monitor Program Impact: By Program[31]**
Significantly Help Participating Customers (Needs Based)	• Number of Measures installed • Evaluated and Verified kWh Reductions (Due to Measures Installed) • Needs served based on Opportunity per Customer[34] • Percent of Households Deferred Due to Health and Safety Issues[35]
Low Administrative Cost of Operation of the Program	• Cost of Program • Cost of Program per Program Participant • Cost of Program per Program Participant Weighted by Value to Participants • Maximize Leveraged Dollars[36]
Minimize bill impacts for Non-Participants	• Average kWh cost across all Customers • Percentage (and/or) Average Monthly Bill Increase for Non-Participants
Eligible for Cost Recovery[37]	

1. Duke Energy Perspective

Duke Energy acknowledges the benefit of metrics to track the effectiveness of programs designed to address affordability challenges. The applicability of the suggested metrics discussed by LIAC members may vary by program depending on the design and goals of the program. In addition, the ability to track the information for the metric will be dependent upon whether the information is readily available to the Companies. Several of the metrics will require the Companies to obtain data from third parties; therefore, the information may not be exact. For example, to calculate energy burden and track participation by FPG, customer income information must be collected from a third party. Tracking the percentage of households deferred in the weatherization program due to

[34] The intention of this metrics is to capture what percentage of eligible measures are served per customer/household.
[35] Deferral information as a metric will need to be carefully crafted to avoid unintended incentives around program implementation.
[36] This metrics should explicitly state the involvement of the agency performing the work on behalf of Duke Energy.
[37] No metrics are recommended for monitoring this success criteria, though it is important to consider the reliability of funding sources for each program.

OFFICIAL COPY
Sep 26 2023

health and safety issues will require information from a third party. Depending on the third-party source of the information, the Companies may have to enter into data sharing agreements to receive the necessary information to track specific information. Additionally, the LIAC did not establish a baseline for each metric; that effort requires additional work to evaluate the impact of the program to address affordability for low-income customers.

C. Disconnection for Nonpayment Practices and Regulatory Provisions

In response to the Commission's requirement to review practices and regulatory provisions related to disconnections for nonpayment, Sub-Team C members reviewed NCUC Rule R12-11 Disconnection of Residential Customer's Electric Service ("Disconnection Rule") and Duke Energy disconnection policies and disconnect data. This information was discussed with LIAC members on May 19, 2022 in Workshop VII.

As detailed in the Disconnection Rule, electric utilities are required to notify residential customers in advance of disconnection for non-payment. In addition, the Disconnection Rule details requirements for customers to participate in a moratorium for disconnection for non-pay between November 1 and March 31 annually.[38] The LIAC discussed how Duke Energy voluntarily enrolled North Carolina Housing Opportunities and Prevention of Eviction Program ("NC HOPE"), LIEAP, and CIP recipients in the

[38] With respect to bills rendered between November 1 and March 31 of every year and in conformity with the policy considerations expressed by Congress in the Public Utility Regulatory Policies Act ("PURPA") of 1978, the notice of proposed termination shall also contain a statement that no termination shall take place without the express approval of the Commission if the customer can establish all of the following: (a) That a member of the customer's household is either handicapped or elderly (65 years of age or older), or both. (b) That the customer is unable to pay for such service in full or in accordance with subsection (l)(3) of this rule. (c) That the household is certified by the local social service office which administers the Energy Crisis Assistance Program or other similar programs as being eligible (whether funds are then available or not) to receive assistance under such programs.

OFFICIAL COPY
Sep 26 2023

moratorium from November 1, 2020 to March 31, 2022.[39] This was supported by a Data Sharing Agreement ("Moratorium DSA") that permitted the North Carolina Department of Health and Human Services to share a list of LIEAP and CIP recipients and North Carolina Office of Recovery and Resiliency to share a list of NC HOPE recipients with Duke Energy. The scope of the Moratorium DSA was limited to enrolling recipients in the moratorium.

The Disconnection Rule requires electric utilities to notify residential customers in advance of DNP of electric service. The Disconnection Rule requires, in part:

- "Electric service to a residential customer shall not be terminated for nonpayment of a delinquent account until the utility has given such ***customer at least 10 days'*** *written notice* that his service is subject to termination."
- "**At least 24 hours** prior to a proposed service termination, the utility shall, in good faith, attempt to contact a customer to whom a written disconnect notice has been mailed…"
- **"Immediately prior to the actual termination of service**, the utility's representative shall attempt to personally contact the customer on the premises.

As shared with the LIAC, Duke Energy sends customers additional notifications via a number of communication channels that include email, text and/or phone depending on the customer's preferences. In discussing the effectiveness of the notifications, Duke Energy shared the notice effectiveness information for the pre-COVID and post-COVID timeframe for both DEC and DEP detailed below and filed in the Q1 Progress Report.

[39] See Docket No. M-100, Sub 158.

OFFICIAL COPY
Sep 26 2023

DEC – Average Monthly Residential Notices							
Pre & Post COVID		10-Day Notice	24-Hour Notice	Day of Disconnect Notice	DNP	Reconnected	No Action
PRE	July 2019-Dec. 2019	~335,000	~179,000	~32,000	~9,300	~8,700	~600
	Reductions from previous notice		46%	82%	72%		Less than 1% (of delinquent population)
POST	Nov. 2020 – Feb. 2021	~228,000	~105,000	~48,000	~6,700 ~7,500	~5,000	~9,200
	Reductions from previous notice		54%	54%	70%		4% (of delinquent population)

DEP – Average Monthly Residential Notices							
Pre & Post COVID		10-Day Notice	24-Hour Notice	Day of Disconnect Notice	DNP	Reconnected	No Action
PRE	July 2019-Dec. 2019	~180,000	~101,000	~21,000	~8,000	~6,800	~1,200
	Reductions from previous notice		44%	79%	62%		Less than 1% (of delinquent population)
POST	Nov. 2020 – Feb. 2021	~159,000	~105,000	~25,000	~7,300 ~200	~6,500	~1,000
	Reductions from previous notice		34%	76%	70%		Less than 1% (of delinquent population)

The information above shows that the number of notifications decreases in response to customers who take action upon receiving the prior notification. Upon receiving the initial notification or subsequent notification(s), customers are prompted to take action that includes making a payment and/or enrollment in an installment plan. While the LIAC members recognize there is a correlation between notifications and customer action, the

OFFICIAL COPY
Sep 28 2023

LIAC did not make a determination as to whether the Disconnection Rule required revisions.

Due to the application of the Disconnection Rule to all residential customers and the impact of proposed rule changes to all electric utilities regulated by the Commission, the LIAC did not recommend changes to the Rule. Instead, the LIAC recommends review of regulatory provisions related to disconnections for nonpayment that would be addressed by the Commission in a rulemaking procedure.

1. Duke Energy Perspective

While Duke Energy acknowledges the involuntary interruption of a customer's electric service is a last resort, the information detailed above shows the effectiveness of DNP notifications required by the Disconnection Rule. From the time the 10-day disconnection notice is issued, there is a 46% reduction on average in the number of customers who receive the 24-hour notice. An average decline of nearly 74% is experienced between the time the 24-hour notice issued and the day of disconnect notice is issued. The same trend exists from when the day of disconnect notice is issued and a DNP occurs. Nearly 69% of customers who receive a day of disconnect notice take action and avoid DNP. In addition to the required notifications detailed in the Disconnection Rule, the Companies recognize that some customers prefer communications via electronic channels including email and text to take action to avoid DNP.

Duke Energy agrees with the LIAC's recommendation that a review of the Disconnection Rule should be initiated by the Commission. This will allow all impacted utilities and interested stakeholders the opportunity to provide input on such review and proposed changes.

OFFICIAL COPY
Sep 26 2023

D. Existing Utility and External Funding Sources and the Utility's Opportunities to Collaborate and Partner with Third-Party Agencies and Organizations to Deliver Affordability Programs

The LIAC members discussed existing opportunities where Duke Energy works with other program administrators and organizations to deploy programs and services to address affordability challenges. Similar to other states, the state agencies addressing affordability by offering income-qualified programs are serving some of the same customers as Duke Energy. Duke Energy's low-income programs are funded through the North Carolina ratemaking framework, i.e., base rates or rate riders or shareholder contributions. The state agencies that fund income-qualified weatherization and bill pay assistance programs (LIEAP/CIP) are the NCDEQ and NCDHHS, respectively.

The LIAC members also discussed opportunities to assist more customers through increased attention and ongoing partnerships with the NCDHHS and NCDEQ. Duke Energy's WPERP and the NCDEQ Program are implemented by the NCWAP. This allows NCWAP to maximize the benefits and energy savings for program participants through multiple funding sources.

As a result of these discussions, the LIAC members identified the following opportunities and challenges when working with other agencies and organizations to deliver programs to address affordability.

Opportunities:

- NCDHHS plans to deploy a new software platform for use with Community Action Agencies to centrally collect data and information. This new platform may be used by DEQ for data collection and reporting on the NCWAP.
- Any weatherization program deferral for health and safety needs will be visible for all local agencies to monitor.
- Use of qualification for LIEAP/CIP to aid in energy burden calculation.

OFFICIAL COPY
Sep 26 2023

- Share LIEAP/CIP program participation information in support of participant receiving other services such as weatherization.

Challenges:

- Lack of transparency and information sharing
- No standardized process to collect/track deferral information
- Misalignment on the timing of which organization is spending funds
- Miscommunication/misunderstanding around priority process for weatherization program participant applications
- Low level of funding per participant compared to the need

E. Cost-of-Service Allocation Effect on Rate Design and Affordability of Rates

During the analytics portion of the LIAC, Duke Energy conducted intraclass cross-subsidization analyses within the residential customer schedules (schedule RES for DEP, and schedules RS and RE for DEC).[40] Given the nature of the utility system as a network with a variety of common system costs that are shared among all customers, some level of cross-subsidization is inherent in ratemaking. The analyses looked through two different lenses: embedded and marginal cost. Both lenses are foundational to rate design and answer different questions.

An embedded cost analysis indicates whether customers are paying their "fair share" of historical costs. Embedded costs are costs that have already been incurred and are recovered through rates; in other words, they are included in the utility's revenue requirement.

A marginal cost analysis determines the cost to serve the next unit of demand. For example, the analysis would indicate how much an additional kWh costs when a new customer joins the system.

[40] See Appendix E at 23.

OFFICIAL COPY
Sep 26 2023

For North Carolina residential customers in both DEC and DEP, it appears that LIEAP/CIP recipients and customers that meet the definition for struggling with arrears are cross-subsidizing other residential customers. The straight average (i.e., the average of the embedded and marginal analyses results) annual cross-subsidy for LIEAP/CIP customers is:

- DEP RES - $72
- DEC RS - $162
- DEC RE - $6

The straight average annual cross-subsidy for customers that meet Duke Energy's arrears struggling definition is:

- DEP RES - $90
- DEC RS - $114
- DEC RE - $60

Due to the complexity of allocating costs, competing goals in rate design, as well as average cost ratemaking, there will always be instances where some customers pay more or less than the cost to serve them. There are factors, such as differences in distribution costs, that could not be included in this study. Additionally, any change to the cost of service allocation methodologies would change the total costs allocated to a rate class, which would change the intraclass cross-subsidization results. Furthermore, the majority of costs are recovered from residential customers on a per kWh basis; any customer in a group that uses more kWh than average will inherently be paying more than the cost to serve that group because most of the costs to serve a customer are fixed.

Due to the number of variables, any result from the analyses conducted in the LIAC should be taken as informational and directionally accurate, not as a precise measure of intraclass cross-subsidization.

OFFICIAL COPY
Sep 26 2023

1. Duke Energy Perspective

Cost-of-service allocation determines the amount of the utility's revenue requirement that each customer rate class is responsible for and thus must be recovered through rates. Therefore, cost allocation is critical to determining the amount each customer group should pay for their use of the electric system. Changes in cost-of-service methodologies will change the revenue requirement for each rate class, with some methodologies resulting in a higher revenue requirement and others reducing the revenue requirement. Although cost-of-service helps guide rate design, it does not dictate the final rate designs entirely. There are important practical and public policy considerations that are critical to rate design but are not quantified in the cost-of-service or cost allocation processes.

F. How Existing Programs Address Affordability, Cost-Causation, and Allowance of Costs Among Classes

Energy efficiency programs that reduce energy usage lower the residential allocation of embedded costs. Conversely, any programs that increase energy use increase the allocation of embedded costs. The overall effect these programs would have on other customers' rates depends on the revenue collected from each customer (i.e., contribution towards the rate class's revenue) compared with the costs allocated to the rate class as a result of a customer (i.e., addition to the rate class's revenue requirement). If the increase in allocated costs exceeds the incremental revenue from a customer, then it will result in an increase in rates for customers within the rate class. If the allocated costs are less than the incremental revenue, then there would be downward pressure on rates within the rate class.

OFFICIAL COPY
Sep 26 2023

1. Duke Energy Perspective

Rate design options can provide customers with additional cost-based pricing tools, such as time-of-use ("TOU") rates, that give customers the opportunity to manage their overall energy cost by shaping their consumption in response to price signals. Customer affordability will improve, to the extent a customer responds to the cost-based price signal, and commensurately lowers their bill. In addition, because the price signal is cost based, it will also reduce system costs. Ideally, in an effective TOU rate design, the customer savings and system cost savings would be approximately the same. The potential for new rate design features to provide customers with additional tools to manage their bills will enhance customer affordability. These designs move system cost recovery to the customer groups that are actually driving system costs and avoid an unfair cost shift.

In addition to new rate designs, the bundling of additional products or services, such as energy efficiency measures (e.g., smart thermostats) or demand response programs (e.g., critical peak pricing), can enhance the ability for a customer to save money, Subscription concepts, such as TOU electric vehicle managed charging, can enhance customer savings without disrupting a customer's lifestyle.

Establishing TOU rates is a representative example showing the broad considerations relevant to sound rate design. To that end, any proposed rate should balance the conflicting principles of rate design as presented in Workshop IV:

- Reflect cost causation (no unjust or undue discrimination);
- Incent beneficial consumption patterns (send efficient price signals);
- Recover the cost to serve (i.e., recover the revenue requirement) and;
- Meet public policy goals (as determined by public utility commissions and state governments).

OFFICIAL COPY
Sep 28 2023

G. Review of EE/DSM and CRR Collaborative Efforts to Assist Low-Income Customers

Sub-Team D was tasked with reviewing the ongoing efforts of the EE/DSM, CRR and LIAC (individually as "Collaborative" collectively, "the Collaboratives") due to the overlapping nature of the work by the Collaboratives. The LIAC hosted a joint meeting on January 26, 2022, with over 130 individuals representing the three Collaboratives in attendance. The joint meeting was designed to allow members of each collaborative to learn about efforts underway to assist low-income customers, provide feedback about opportunities for cross collaboration, identify gaps and challenges, and propose solutions and changes. Each Collaborative made a presentation during the joint meeting that provided an overview of its efforts underway to assist low-income customers with addressing affordability challenges. In addition to these presentations, the meeting included breakout sessions designed for interactive discussion to collect feedback. The breakout sessions allowed participants to provide information through discussions and identification of opportunities for collaborative intersections, challenges and gaps, and potential changes and solutions further detailed in Appendix F. In support of ongoing information sharing for the duration of the LIAC, the EE/DSM and CRR identified points of contact responsible for providing LIAC members updates on the work underway that overlapped with LIAC areas of focus. These updates were provided during the subsequent workshop meetings hosted by the LIAC.

IV. Jurisdictional Trends, Metrics, and Definitions for "Affordability"

During the March 31, 2022 Workshop VI, Sub-Team B members presented on the following topics:

OFFICIAL COPY
Sep 26 2023

- Resources to identify and measure affordability challenges.
- Identifying an industry-accepted definition for affordability, adopted metrics that measure the effectiveness of affordability programs and the eligibility guidelines for income-qualified programs (both utility and government offered).
- Eligibility requirements for income-qualified bill pay assistance and/or energy efficiency programs designed to address affordability.

A. Program Eligibility Requirements

Sub-Team B's findings show that income qualifications for program eligibility range between programs offered within North Carolina. The income qualifications are determined by a percentage of FPG, mass gross income limit, state median income, and area median income. Most of the programs that are listed below identified federal poverty guidelines as the income qualifier with the percentage being no more than 200% of the FPG. This is consistent for the majority of income-qualified bill pay assistance and energy efficiency programs serving single family and multi-family homes regardless of whether the home is owner-occupied or occupied by a renter as shown in the table below.

Analysis of Low-Income Program Eligibility							
	LIEAP	CIP	HOPE	FNS	State WTHZ	WPERP	NES
HOUSING							
Owner (O) Renter(R)	O&R	O&R	R	O&R	O&R	O&R[41]	O&R
Single Family (SF) Multifamily (MF)	SF & MF	SF & MF	SF & MF	SF & MF	SF & MF	SF	SF & MF
INCOME LEVEL							
Criteria Used	FPG	FPG	Area Median	Max Gross Income Limit	FPG	FPG	Targets Neighborhoods where ≥ 50% households are below 200% FPG
Eligibility Level	≤130%	≤150%	≤80%	130% or 200%	200%	(Mirrors State WTHZ)	

[41] Renters are eligible pending landlord provides authorization and agrees to defined requirements

OFFICIAL COPY
Sep 26 2023

Analysis of Low-Income Program Eligibility							
OTHER							
Heating Source-Dependent?	Yes	No	Yes	No	No	No	No

B. Affordability Defined and Applied in Other Jurisdictions

The LIAC was unable to identify an energy-industry accepted definition for affordability. However, there are jurisdictions further discussed below that have taken regulatory action to study affordability challenges and ways to measure affordability.

Both the Pennsylvania Public Utility Commission ("PPUC") and California Public Utilities Commission ("CPUC") opened dockets to study affordability for low-income customers. The PPUC[42] initiated a study to examine the home energy burden for low-income customers in Pennsylvania in evaluating the affordability, cost-effectiveness, and prudence of Universal Service Programs[43]. The study examined the impacts of bill assistance on customer energy burden levels, outlined the maximum energy burdens and revised previous third-party studies dealing with related topics for both electric and gas customers. Pennsylvania's maximum energy burdens as articulated in the CAP Policy Statement are higher than maximum energy burdens used by neighboring states.[44]

In California, the CPUC issued an order to assess the impacts of affordability of individual CPCUC utility rate requests. The goals of the proceedings were to develop a framework and principles to identify and define affordability criteria for all utility services

[42] https://www.puc.pa.gov/pcdocs/1602386.pdf.

[43] See the May 5, 2017 "Energy Affordability for Low Income Customers Order" in Docket No. M-2017-2587711. This was the first comprehensive energy burden and affordability study of Pennsylvania households using information from utilities and other third parties.

[44] Ohio's utility payment assistance program has a maximum energy burden of 10%. The New York and New Jersey utility payment assistance programs both have a maximum energy burden level of 6%.

OFFICIAL COPY
Sep 28 2023

under CPUC jurisdiction and develop the methodologies, data sources, and processes necessary to comprehensively assess the impacts on affordability of individual CPUC proceedings and utility rate requests for the residential rate class. The CPUC adopted metrics and methodologies for assessing the affordability of public utility service under the CPUC's jurisdiction. The California Commission adopted three independent, but related, metrics which allow for the creation of a more complete picture of affordability than any one metric could provide on its own. The three metrics include the following:

- The Affordability Ratio ("AR") metric quantifies the percentage of a representative household's income that would be used to pay for an essential utility service, after non-discretionary expenses such as housing and other essential utility service charges are deducted from the household's income. The higher an AR, the less affordable the utility service. The AR may be calculated for a single essential utility service, a combination of services, or all essential utility services combined.

- The Hours at Minimum Wage metric quantifies the hours of earned employment at the city minimum wage necessary for a household to pay for essential utility service charges. The minimum wage-based metric also implicitly considers the impact of essential utility service charges on lower-income customers regardless of the socioeconomic conditions of the community as a whole.

- The Socioeconomic Vulnerability Index ("SEVI") metric represents the relative socioeconomic standing of census tracts, referred to as communities, in terms of poverty, unemployment, educational attainment, linguistic isolation, and percentage of income spent on housing. This metric therefore considers how a rate change may affect one community's ability to pay more than another's.

On April 29, 2021, the CPUC issued the 2019 Annual Affordability Report. [45]

The New York Public Service Commission adopted a policy that an energy burden at or below 6% of household income shall be the target level for all low-income households in New York. It recognized that success is only achievable through a holistic approach that coordinates and leverages all available resources.[46]

[45] 2019 Annual Affordability Report (ca.gov).
[46] http://www.psc.state.fl.us/Files/PDF/Home/NCRA/NCRA%20Presentations/Session%2006%20-%20Shot%20Across%20Bow/Supplemental%20Materials%20(R%C3%A1bago).pdf.

OFFICIAL COPY
Sep 28 2023

Although the Sub-Team B research did not identify a common definition for affordability, the research findings identified efforts underway by state commissions, as described above, for utility services under its regulation to track and understand affordability challenges and ways to measure affordability. The metric to measure affordability ranges by state from the three independent, but related, metrics, adopted by the CPUC to an average target energy burden for low-income customers adopted by New York.

Based on the research findings, the recommendation from the LIAC is that the NCUC should consider FPG at or below 200% when determining eligibility for programs to address affordability. This aligns with the majority of the income-qualified programs identified in the Sub-Team B research and analytics information completed for the LIAC. While Sub-Team B recognizes that program eligibility will vary by program, the recommendation is that program design should incorporate and be available to income-qualified customers regardless of home types (single family and multifamily), renters and owners, and be available regardless of the heating source.

1. Duke Energy Perspective

The findings by Sub-Team B members provided insightful information regarding how other jurisdictions are defining and measuring affordability for low-income customers. The programs reviewed by Sub-Team B reveal that many low-income customer programs are offered to customers who meet income eligibility requirements (at or below 200% FPG) regardless of their housing type (single family or multi-family), housing status (renter or owner) and heating source. Duke Energy supports programs that include these characteristics when designing programs to address affordability challenges.

OFFICIAL COPY
Sep 26 2023

While the work performed by the LIAC is insightful and provides a level of detail not previously available, Duke Energy acknowledges that a comprehensive study of all North Carolina utilities would provide a more informed view of opportunities to assist low-income customers with affordability challenges ("Comprehensive Study"). Additionally, while the studies performed by the PPUC and CPUC are similar, there are significant differences in focusing on specific opportunities and policies to address affordability challenges of customers in their state. Duke Energy supports a Commission-ordered Comprehensive Study to evaluate affordability challenges and solutions for North Carolina's low-income utility customers.

V. Overview of 3(e) Programs

The Commission directed the LIAC to provide an overview of certain low-income programs including: minimum bill concepts as a substitute for fixed monthly charges; income-based rate plans, such as Ohio's percentage of income payment plan ("PIPP"); segmentation of the existing residential rate class to take into account different levels of usage; expanding eligibility for DEC's current SSI-based program to include additional groups of ratepayers; and whether a specific component in rates to be used to fund supplemental support programs ("3(e) Programs"). As part of the overview, the LIAC was tasked with determining whether the 3(e) Programs, in addition to any other programs agreed upon by the collaborative, are appropriate for implementation in North Carolina and, if so, what statutory or regulatory changes are necessary to permit implementation.

Pursuant to the Rate Case Orders and the Commission's directive, the Affordability Collaborative evaluated the appropriateness of several program ideas, including the 3(e)

OFFICIAL COPY
Sep 28 2023

Programs, throughout various LIAC workshops and Sub-Team meetings.[47] The results of those evaluations are included in the LIAC's proposed programs and recommendations in Appendix G and discussed further in Section VI of this Final Report.

As part of the overview, the LIAC also evaluated and discussed the regulatory and statutory framework and any changes that may be necessary to implement 3(e) Programs. The LIAC agreed that the Commission has broad authority under existing North Carolina law, but whether any particular proposal or program may require regulatory or statutory changes to be implemented cannot be determined in the abstract without a more detailed proposal.

A. Duke Energy and Public Staff Perspective

Duke Energy and the Public Staff agree with the LIAC's determination that it is challenging to evaluate whether any program, including 3(e) Programs, would require any regulatory or statutory changes without more details regarding the proposed program. However, Duke Energy and the Public Staff conducted a high-level overview of the Commission's general authority under the current regulatory and statutory framework and its potential impact on the implementation of 3(e) Programs or low-income programs in general.

There are several statutes germane to the question of whether there are statutory or regulatory barriers to implementation of a program to assist low-income customers with affording the cost of electricity. North Carolina General Statute ("G.S.") § 62-2 is the declaration of policy regarding the rates, services, and operations of public utilities. G.S. § 62-2 (3) indicates that it is the policy "[t]o promote adequate, reliable and economical

[47] See the Q4 Progress Report and Appendix E.

OFFICIAL COPY
Sep 26 2023

utility service to all of the citizens and residents of the State", and G.S. § 62-2 (3a) states that it is the policy to fix "rates in a manner to result in the least cost mix of generation and demand side reduction measures which is achievable . . ." It is also the policy of the State pursuant to G.S. § 62-2 (4) ". . . [t[]o provide just and reasonable rates and charges for public utility services without unjust discrimination, undue preferences or advantages . . ."

G.S. § 62-131 dictates two important principles regarding rates and utility service. First, rates must be just and reasonable. Second, a utility is required to "furnish adequate, efficient and reasonable service". G.S.§ 62-133 establishes how the Commission sets rates. Rates must be fair to both utility and customer, based on costs of utility to serve *all* customers, and reasonable. The Commission has broad but not unlimited discretion to set rates. The Commission cannot exceed its jurisdiction. The Commission exercises its judgement in its determination of what is in the "public interest". The Commission's decisions must be based on evidence.

In addition, rates must be developed based on cost-causation principles (i.e., the cost causer pays for its costs). In DEC's recent rate case, Docket No. E-7, Sub 1214, Public Staff witness Jack Floyd addressed these issues. He stated "[r]ate design should follow the same cost causation approach underlying the [cost of service study], such that each customer class, or customer, is responsible for an appropriate share of the costs that are planned for and incurred in order to serve them."[48] He also stated that "[t]he Public Staff continues to fundamentally believe that rate design must first be based on cost-causation principles. After cost-based rates are determined, public policy may provide further guidance in designing final rates."[49]

[48] Direct Testimony of Jack Floyd filed February 18, 2020, Docket No. E-7, Sub 1214 at P. 9, ll. 10-13.
[49] Id at P. 58, ll. 13-16.

OFFICIAL COPY
Sep 28 2023

By using cost-causation principles to develop rates, bills are based on usage, thus incenting customers to conserve energy to lower their bills. When rates are not based on cost causation, the tie between usage and price is severed, thus sending inaccurate price signals and reducing or eliminating the incentive for customers to conserve energy. Witness Floyd went on to say that "[a]ny rate discount for low-income customers will shift revenue recovery to other customers in the form of slightly higher rates. This shift or subsidization must be thoroughly understood in terms of the dollars to be shifted and the effect on rates paid by other customers."[50] It is important to note that in the newly passed S.L. 2021-165 ("House Bill 951"), section (b) requires that the revenue requirement be allocated pursuant to cost-causation principles for any electric public utility rate case filed along with an application for performance-based regulation. Section (a)(1) defines the "cost causation principle" as "establishment of a causal link between a specific customer class, how that class uses the electric system, and costs incurred by the electric public utility for the provision of electric service."

The Commission is also barred from setting rates that are unreasonably discriminatory. G.S.§ 62-140(a) provides that "[n]o public utility shall, as to rates or services, make or grant any unreasonable preference or advantage to any person or subject any person to any unreasonable prejudice or disadvantage. No public utility shall establish or maintain any unreasonable difference as to rates or services either as between localities or as between classes of service . . ." The form of the aid given to low-income customers by the utility is not dispositive in determining whether it is in violation of G.S. § 62-140.

[50] *Id.* at P. 59, lines 16-21.

OFFICIAL COPY
Sep 28 2023

The question is what would be considered an "unreasonable preference or advantage." The Courts have interpreted this statute multiple times.

In *State ex rel. Util. Comm'n v. Mead Corp.*, 238 N.C. 451, 78 S.E. 2d 290 (1953), the Supreme Court wrote, "The obligation of a public service corporation to serve impartially and without unjust discrimination is fundamental…. There must be substantial differences in service or conditions to justify differences in rates. There must be no unreasonable discrimination between those receiving the same kind and degree of service." In *State ex rel. Util. Comm'n v. Bird Oil Co.*, 302 N.C. 14, 273 S.E. 2d 232 (1981), the Court found that differentiated rates were not unjust or unreasonable when there were substantial differences in the (1) quantity of use, (2) time of use, (3) manner of use, and (4) costs of rendering the two services. In *State ex rel. Util. Comm'n v. Municipal Corporations, 243 N.C. 193 (1955),* the Court held a substantial difference between the costs of rendering the services justifies some difference in rates. These same criteria were again confirmed by the Court in *State ex rel. Util. Comm'n v. Carolina Utility Customers Ass'n,* 351 N.C. 223, 524 S.E. 2d 10 (2000).

In a single class of residential customers, it is unlikely that there is a substantial difference between the cost of rendering service to low-income individuals as opposed to non-low-income individuals. Thus, from the statute and case law it is unclear whether a low-income rate or discount would be unreasonably discriminatory under G.S. § 62-140 when there are not substantial differences between the costs to serve low income and non-low income customers. Duke Energy and the Public Staff have found no cases concerning rate discrimination among customers in the residential class. Whether the Commission and

OFFICIAL COPY
Sep 28 2023

courts may view a low-income rate or discount as a reasonable form of discrimination is uncertain.

While there are no cases addressing whether the Commission can approve a low-income rate that is not based on cost-causation principles absent legislative authorization, the Supreme Court in *State ex rel. Util. Comm'n v. Cooper,* 366 N.C. 484, 739 S.E,2d 541 (2013)[51] concluded, in remanding a general rate case to the Commission, that the Commission must take customer interests and changing economic conditions into consideration when making a determination on return on equity. While the Court's analysis was based on other factors, the Court referenced the language of G.S. § 62-133(b)(4), a general rate case statute, holding the Commission must consider whether the approved return is reasonable and fair to the utility's customers. Although *Cooper I* does not suggest that a specific low-income rate is appropriate, it does suggest some concern by the Court of the impacts of increased utility rates on customers during times of changing economic circumstances. In *Cooper II*, the Court affirmed the Commission's decision but also noted that not only G.S. § 62-133 (b)(4) but Chapter 62, as a whole, requires the Commission to treat consumer interests fairly and not indirectly or as mere afterthoughts. This might suggest that, if challenged, a carefully crafted low-income rate might lead the Court to find that the rate is not unduly unreasonable or unjust so as to violate the anti-discrimination provisions of G.S. § 62-140.

The Commission has exercised its authority in the past to approve rates or programs for low-income customers. Indeed, the Commission has approved energy efficiency

[51] This case is usually referred to as *Cooper I*. Following remand and a further Order by the Commission, the Supreme Court issued a subsequent decision dated December 19, 2014, in *State ex rel. Util Comm'n v. Cooper*, 366 N.C 644, 766 S.E. 2d 827 (2014), which is usually referred to as *Cooper II*.

OFFICIAL COPY
Sep 26 2023

programs targeted at low-income customers that are not cost effective but provide societal benefits. There is also Commission precedent adopting a discounted rate for certain customers. The discounted rate was limited to elderly, blind or handicapped customers who met federal poverty guidelines and were receiving Supplemental Security Income ("SSI"). The Commission justified the rate by concluding that the usage of such customers was inelastic and unresponsive to price changes and because it would allow the Commission to collect meaningful data in its comprehensive study of lifeline-type rate schedules mandated by the 1977 General Assembly. The rate was adopted by the Commission for Duke Power Company on August 31, 1978, in Docket No. E-7, Sub 237. Although this discounted rate was adopted as an experimental rate for study purposes, it is still in place in DEC Rate Schedules RS and RE. Presently, DEC Rate Schedule RS states, "For customers receiving SSI under the program administered by the Social Security Administration and who are blind, disabled, or 65 years of age or over, the rate for the first 250 kWh used per month shall be 8.4772 cents per kWh." The present maximum discount to customers is $3.17 per month. Notably, this rate was authorized as an "experimental rate", and it remains an "experimental rate."

The experimental rate was addressed further in Duke Power Company's 1982 general rate case in Docket No. E-7, Sub 338.[52] In that case, the Commission found that the cost justification for the experimental SSI rates was inconclusive and that the matter should be considered further by the full Commission in Docket No. E-100, Sub 143. However, fundamental to the Commission's consideration of the SSI rate was the principle

[52] Public Staff Witness Jack Floyd extensively addressed affordability and other lifeline issues in testimony submitted on February 18, 2020 in Docket No. E-7, Subs 1213 and 1214. Mr. Floyd's testimony also reviews the background of the SSI rate originally adopted on August 31, 1978 in Docket No. E-7, Sub 237.

OFFICIAL COPY
Sep 26 2023

that the rate had to be based on cost-of-service differences between SSI customers and residential customers as a whole or based on a lower elasticity of demand than residential customers. The SSI rate was not intended as a lifeline rate or as a promotional rate. It should be noted the SSI rate was adopted during a time of changing economic circumstances, when the country was facing an oil embargo and massive construction costs association with building nuclear plants, creating upward pressure on electricity rates. While the Commission's approval of the experimental SSI rate provides some precedent, the Commission also expressed concerns about its ability to approve rates based on social objectives.

> The Commission shares the concern of the state for the elderly, the handicapped, and the poverty stricken, especially in times of high energy costs. However, the Commission is of the opinion that such social objectives as providing relief for certain disadvantaged segments of the general population are, and should be, beyond the rate making authority of the commission. The authority for social objectives is vested with the duly elected representatives of the general public, and the commission has not been delegated any such authority. The commission can best and most properly perform its legislative mandate by enduring that the rates it approves for service to disadvantaged customers do not exceed the actual costs to provide such services.[53]

The General Assembly authorized a low-income rate for telephone customers due to upward pressure on local telephone rates caused by industry deregulation. The statute authorized a state discount that was equivalent to a federal discount approved by the Federal Communication Commission. An exception in G.S. § 62-140 states, "It shall not be considered an unreasonable preference or advantage for the Commission to order, if it finds the public interest so requires, a reduction in local telephone rates for low-income residential consumers meeting a means test established by the Commission in order to

[53] Docket No. E-7, Sub 338 at 89.

OFFICIAL COPY
Sep 26 2023

match any reduction in the interstate subscriber line charge authorized by the Federal Communications Commission." Here, the General Assembly explicitly carved out an exception to allow for a low-income rate for telephone service. This could potentially bolster the argument that legislation is needed to create an exception for a low-income rate for electric service. On the other hand, it could be argued that just as a low-income rate for telephone customers is not unreasonably discriminatory, neither is a low-income rate for electric customers.[54]

Consideration of whether a particular rate or program is in the public interest begins by reviewing cost-based revenues, cost allocations, and rate designs, including fixed versus variable costs; demand- versus energy-related costs; flat rates, demand rates, and volumetric rates; and inclining versus declining block rates. Next, subsidies between classes are minimized as much as possible, and any that remain must accomplish a public interest objective. To the extent a low-income assistance program is proposed as part of a rate case filed with an application for performance-based regulation, any interclass subsidization of ratepayers must be "minimized to the greatest extent practicable by the conclusion of the MYRP period." G.S. 62-133.16(b). The rate or program should provide opportunities for as many eligible customers as possible to participate. There should be identification of clear public policy objectives, and specific definition of the benefits and

[54] While this language remains in the statute, the low-income rate for telephone service has been effectively repealed. The General Assembly passed an amendment to G.S. § 62-140 which states, "If the State repeals any State funding mechanism for a reduction in the local telephone rates for low-income residential consumers, the Commission shall take appropriate action to eliminate any requirement for the reduced rate funded by the repealed State funding mechanism." The low-income rate was funded through a tax credit given to telecommunications providers to recover the costs of the low-income rate. In S.L. 2013-316, the General Assembly repealed the tax credit, and in doing so effectively repealed the low-income rate for telecommunications services. Although the action of the General Assembly targeted the elimination of the tax credit, the credit was applicable to traditional landline telephone service. The number of customers taking advantage of the program had declined significantly due to the increased utilization of wireless phones.

OFFICIAL COPY
Sep 28 2023

costs to customers and utility system. Cost recovery (revenues, allocations, and rate designs) should align with the distribution of benefits as much as possible. Any deviation should be shown to be "in the public interest."

VI. LIAC Proposals

In response to feedback shared by LIAC members during LIAC Workshop 3 on November 12, 2021, Guidehouse created and distributed the electronic program submission form on November 28, 2021, in advance of the original Q1 timeframe. The electronic form detailed the required data points for proposals to address affordability challenges. Guidehouse received 22 proposals submitted from LIAC members by the April 8, 2022 due date. Guidehouse distributed each proposal to LIAC members on April 12, 2022. On April 20, 2022, Guidehouse distributed the LIAC Proposal Packet, a comprehensive list of all proposals and supporting information submitted, to LIAC members for Pitch Day. On Pitch Day, April 20, 2022, the LIAC members that submitted proposals presented information about their proposals to the other LIAC members and answered questions.

During Pitch Day, LIAC members discussed opportunities to combine similar proposals and potentially align proposals with other efforts underway by Duke Energy. Based on discussions among LIAC members and with agreement of the participant who submitted the proposal, Guidehouse worked to combine similar proposals or align proposals with other Duke Energy efforts. The table below details the original proposals submitted and proposals combined or aligned with other initiatives as a result of LIAC member feedback. The information in the table does not reflect all the information submitted for each proposal. See Appendix G for a detailed information of each proposal

OFFICIAL COPY
Sep 26 2023

submitted, assessment of each proposal by LIAC members, and feedback from 20 LIAC members in response to the proposal**.**

<table>
<tr><th colspan="5">PROPOSAL INFORMATION</th></tr>
<tr><td>Proposal Number: 1</td><td colspan="4">Proposal Name: Closing the Income-Qualified Energy Efficiency Program Spending and Savings Gap Between DEP and DEC</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)</td><td colspan="4">Summary of Program Description: Proportionately, Duke Energy Carolinas has historically spent and delivered more efficiency savings than Duke Energy Progress. This recommendation is for DEP to increase its spending and savings to close this gap.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>76%</td><td>10%</td><td>0%</td><td>14%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">Duke Energy: It is Duke Energy’s intention and aspiration to serve as many qualified customers as possible through low-income energy efficiency programs, but a singular territory comparison of program spending and energy savings rarely tells the whole story of how well customers in need are being helped.

Public Staff: “The Public Staff has reviewed each of these proposals in isolation without any projections of costs, benefits, cost-effectiveness, participation, etc. Only with this and other pertinent information could the Public Staff make a final determination as to whether it supports or does not support a proposal. The Public Staff would also have to consider the cost and rate impact of all programs or proposals to be implemented at the same time before making a final determination as to its position. This statement applies to each proposal.”</td></tr>
<tr><td>Proposal Number: 2</td><td colspan="4">Proposal Name: Duke Energy Progress Income-Qualified Weatherization Program</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)</td><td colspan="4">Summary of Program Description: Modeled off of the DEC program of the same name, the DEP Income-Qualified Weatherization program will incorporate the ability for Duke to fund the entire project cost for EE improvements with flexibility for per-home spending levels (up to $10,000) comparable to the 2019 Durham Pilot. Total program spending levels will at least match those on a per residential customer basis as the DEC program.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>72%</td><td>14%</td><td>0%</td><td>14%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">AARP: “AARP looks forward to learning more about the specific ways in which this program would lower the cost barrier to energy efficiency retrofits in low-income households, and information about the cost and savings for low-income households that participate in this and other energy efficiency programs. AARP supports cost-effective measures to promote clean energy that yield affordable energy, AARP supports energy efficiency and</td></tr>
</table>

OFFICIAL COPY
Sep 26 2023

<table>
<tr><td></td><td colspan="4">weatherization programs including for low-income customers. We urge that DOE and Federal infrastructure funds be used first to fund such a program."

Public Staff: "Only non-ratepayer funds should be utilized for health and safety work."
Duke Energy: "The Company plans to file the DEP Income Weatherization Program with the NCUC within the next two weeks."</td></tr>
<tr><td>Notes:</td><td colspan="4">On June 13, 2022, in Docket No. E-2, Sub 1299, DEP filed its Proposed Residential Income-Qualified Energy Efficiency and Weatherization Program. The proposed filing is similar to Proposal 2.</td></tr>
<tr><td>Proposal Number: 3</td><td colspan="4">Proposal Name: Income-Qualified High Energy Use</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)</td><td colspan="4">Summary of Program Description: This program provides deep energy retrofits at no cost to low-income customers with high energy use. The program will develop processes to incorporate additional funding for health and safety repairs from non-ratepayer sources to serve previously ineligible customers. The program would be based on a proposed pilot program developed by advocates and Duke Energy out of a 2021 rate case settlement agreement and will likely be filed at the NCUC in early Summer 2022. The pilot will serve 1,000 customers in two selected test regions. The proposed pilot is a first step to developing a full program that addresses the systemic and persistent need of high energy use low-income customers.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>67%</td><td>19%</td><td>0%</td><td>14%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">AARP: "AARP supports energy efficiency programs including for low-income customers. We urge that DOE and Federal infrastructure funds be used first to fund such a program. We think a pilot program might also be a good idea."

Public Staff: "The system impact is greatest by targeting high electric energy consumption customers. Only non-ratepayer funds should be utilized for health and safety work. If ratepayer funds are used for the energy-related portions of the program, any savings claimed by Duke must go through the EM&V process."

Rowan Helping Ministries: "Must include a component for customer education for maintenance of equipment and practical ideas to reduce energy consumption."

Nicholas Institute: "In the statistical analysis, higher winter peak and summer peak usage were associated with a customer being more likely to be in arrears, receive a 24-hour notice, and be disconnected. These results would support reducing high energy use via this pilot and the resulting research could prove valuable."

Duke Energy: "The Companies support an income qualified high electric use pilot program with plans to file it for NCUC approval in the near future."</td></tr>
<tr><td>Notes:</td><td colspan="4">On June 30, 2022, in Docket No. E-7, Sub 1272, DEC filed its Proposed Residential Income-Qualified High-Energy Use Pilot. This proposed pilot is</td></tr>
</table>

OFFICIAL COPY
Sep 26 2023

<table>
<tr><td></td><td colspan="4">the product of the settlement approved Docket No. E-7, Sub 1214 issued on March 31, 2021.</td></tr>
<tr><td>Proposal Number: 4</td><td colspan="4">Proposal Name: Residential Electric Resistance Tank Water Heater (ER) and Hybrid Heat Pump Hybrid Water Heater (HHPWH) Rental Program</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)</td><td colspan="4">Summary of Program Description: The Residential Electric Resistance Tank Water Heater (ER) and Hybrid Heat Pump Water Heater (HHPWH) Rental Program is operated by Duke Energy DEP and DEC (Hereinafter Duke) as a service to residential rate payers. The program will market water heater replacement services to all residential ratepayers.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>71%</td><td>10%</td><td>0%</td><td>19%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">Public Staff: “A waiver of the Commission disconnect rules may be needed to avoid disconnect based on non-payment of non-electric charges. The Public Staff has historically opposed disconnection for non-electric charges. More detail about the rental contracts needs to be provided before it can be determined whether it is appropriate to implement this program through a rental program. It may be more appropriate to implement this measure in a traditional EE program where the customer purchased, owned, and maintained the equipment and then qualified for a credit/discount similar to the Smart Saver program.”

Duke Energy: “The Companies are committed to evaluating a customer owned program offered via an on-tariff financing offer.”</td></tr>
<tr><td>Proposal Number: 5</td><td colspan="4">Proposal Name: Manufactured Homes Energy Efficiency Retrofit and Replacement Program</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)</td><td colspan="4">Summary of Program Description: Manufactured homes on average use substantially more energy per square foot than other housing types, while residents frequently lack the financial resources to address problems of energy waste. This program aims to overcome barriers to affordability and dramatically increase the efficiency of Duke’s manufactured homes through improvements to existing manufactured homes, replacement of the most outdated units, and increasing the overall efficiency performance of new manufactured homes.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>67%</td><td>14%</td><td>5%</td><td>14%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">AARP: “AARP in general supports energy efficiency programs including for low-income customers. We would appreciate more information on this program.”
Public Staff: “It is not appropriate to use ratepayer funds for replacement of manufactured homes. The program should implement only cost-effective EE measures for low-income customers living in manufactured homes similar to other EE programs.”</td></tr>
</table>

OFFICIAL COPY
Sep 26 2023

<table>
<tr><td></td><td colspan="4">Nicholas Institute: “The findings of the statistical analysis support a focus on mobile homes regardless of the tenure of the account holder (owner or renter).”

Rowan Helping Ministries: “This seems beyond the scope of the Duke Energies corporate responsibilities. Great idea for another organization to administer.”

Duke Energy: “Yes, the Companies are committed to evaluating this proposal although it may be cost prohibitive.”</td></tr>
<tr><td>Proposal Number: 6</td><td colspan="4">Proposal Name: Arrearage Management Pilot EE Program</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)</td><td colspan="4">Summary of Program Description: This program would be intended to link energy burden, energy inefficiency, and arrearage management in a unified, encompassing program offering. Households with limited incomes typically face much higher energy burdens that the general population, and as such may be at much higher risk of not being able to pay utility bills on time – especially when they are higher than they could be due to inefficient structures, HVAC equipment, and appliances. The program assumes that most households that fall behind in paying their bills would pay them if they could. Therefore, to make paying those bills more manageable this program would identify households that have fallen behind in their bills and offer a three-part program that includes the following: 1) installation of energy efficiency measures to reduce forward-going bills, preferably through a comprehensive weatherization approach; 2) a payment plan for affordably repaying a portion of the arrearage, and; 3) if the household adheres to the payment plan, forgiveness of the remaining unpaid arrearage. The program revolves around the creation of a relationship between the utility and participating households that is less focused on collections than on working together to identify a plan to reduce the likelihood of future arrearages.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>67%</td><td>9%</td><td>5%</td><td>19%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">Public Staff: “It is generally not appropriate to use ratepayer funds for arrearage forgiveness; however non-ratepayer funds could be utilized for arrearage forgiveness. It may be appropriate to use ratepayer funding for arrearage forgiveness to the extent that it is revenue neutral. Duke should analyze the impact to uncollectibles and assess the actual administrative costs and late fees. This delta could flow back to offset arrearages/ uncollectibles. Such an offset would be appropriate for consideration in the next rate case. It is inappropriate for a utility to profit based on ratepayers’ inability to pay their bills. Prior to arrearage forgiveness, all other sources of funding should be sought and utilized. Arrearage metrics should be tracked to ensure that no perverse incentive to stop paying bills has been created. Access to arrearage forgiveness should limited (1-5 years).”

Rowan Helping Ministries: “We are seeing first hand payment arrangements - post moratorium - are not working for our clients. Our clients are making payment arrangements without the ability to pay. Arrangements</td></tr>
</table>

OFFICIAL COPY
Sep 26 2023

<table>
<tr><td></td><td colspan="4">need to be made soon after an arrearage occurs and payment needs to fit the financial capacity of the customer."

Nicholas Institute: "The findings of the statistical analysis show that those with higher than the national average electric burdens were statistically significantly more likely to be in arrears and more likely to be disconnected over time."

Duke Energy: "The Companies are opening to evaluating an arrears management program in the CAP proposal that is not specific to energy efficiency program participation."</td></tr>
<tr><td>Proposal Number: 7</td><td colspan="4">Proposal Name: LI Carve-out from Market Energy Efficiency Programs</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)</td><td colspan="4">Summary of Program Description: The extent to which income-eligible customers may participate in programs designed for the general public is a topic of discussion in many jurisdictions. It is likely true that income-eligible utility customers participate to some degree in these programs; however, this raises important questions about whether those programs serve these customers well, given that in many cases the participant is required to share in the costs of the measure, which may place additional financial burdens on the household. To ensure this would not be the case, residential general market programs can be designed with enhanced incentives for income-eligible customers.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>67%</td><td>9%</td><td>0%</td><td>24%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">Public Staff: "A market study is necessary before this proposal should move forward. The participant incentive should not exceed 25% of the cost of measure."</td></tr>
<tr><td>Proposal Number: 8</td><td colspan="4">Proposal Name: Comprehensive Affordable Multifamily Energy Efficiency Program</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)</td><td colspan="4">Summary of Program Description: Various regulations commonly drive utility energy efficiency programs aimed towards multifamily housing to take a fragmented approach in providing services. Multifamily tenants who are income-eligible may receive no-cost efficiency measures that are applicable only to their units, such as efficient lighting, but may not be eligible for incentives or measures that are tied to the property owners' utility bills, which are commonly on commercial rates. The incentives available through standard commercial programs may not be sufficient to make efficiency measures affordable – and clearly operating costs play a key role in determining the costs of operating multifamily housing. The result is that comprehensive efficiency projects in affordable multifamily housing are unlikely to occur, thus failing to make a significant dent in the energy costs for these buildings. To overcome these obstacles, this program would provide a one-stop shop approach where a single program point of contact would work with property owners to facilitate comprehensive efficiency projects that address both in-unit (residential) and common area/common system (commercial) efficiency measures. Rather than treating the commercially</td></tr>
</table>

OFFICIAL COPY
Sep 26 2023

<table>
<tr><td></td><td colspan="4">metered elements of affordable multifamily housing as a business, the program would offer enhanced incentives on the basis of the income-eligible residents, thus helping reduce the operating costs for the building as well as tenants' bills.</td></tr>
<tr><td>Notes:</td><td colspan="4">Proposal 8 combined with Proposal 18 are evaluated as Proposal 23.</td></tr>
<tr><td>Proposal Number: 9</td><td colspan="4">Proposal Name: Comprehensive Tiered Discount Bill Payment Assistance</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)</td><td colspan="4">Summary of Program Description: The Electric Payment Assistance Program will provide certain income-eligible residential customers with monthly payment assistance to help electric energy insecure rate payers pay their electric bill.</td></tr>
<tr><td>Notes:</td><td colspan="4">Proposal 9 combined with Proposal 22 are evaluated as Proposal 24.</td></tr>
<tr><td>Proposal Number: 10</td><td colspan="4">Proposal Name: Adopt a Comprehensive Definition of Affordability and Develop Metrics and Methodologies for Assessing and Monitoring the Relative Affordability of Electric Service</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)</td><td colspan="4">Summary of Program Description: Until the Low-Income Affordability Collaborative was initiated, and Duke Energy began analyzing customer data related to energy consumption and costs, income, demographics, arrearages, disconnections and other factors, very little information or data was available to understand the scale and depth of affordability challenges facing the Companies' low-income residential customers. Thanks to that analysis we now have a deeper understanding of who is impacted by those challenges as well as the socioeconomic, housing and other factors that are contributing to those challenges. However, it is critical to both have a more comprehensive definition of affordability as well as metrics that can be used to more accurately assess affordability on the household level and track changes in those metrics over time as new programs are developed and implemented. The proposed program would adopt the California Public Utilities Commission's (CPUC's) definition of affordability along with the three metrics the CPUC adopted for annually measuring and monitoring affordability. The adopted definition is as follows: "the degree to which a representative household is able to pay for an essential utility service charge, given its socioeconomic status. A "representative household," rather than households in general, recognizes that households will have a wide variety of experiences that cannot be perfectly captured by depicting a single household. "Essential utility service charge" refers to the costs borne by a representative household for the quantity of utility service required to enable a ratepayer's health, safety, and full participation in society. "Socioeconomic status" refers to the social and economic standing of a given household."</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>67%</td><td>9%</td><td>5%</td><td>19%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">Public Staff: "This proposal is not a mitigation program; it seeks to define affordability for purposes of further developing programs to mitigate conditions related to affordability."</td></tr>
</table>

OFFICIAL COPY
Sep 26 2023

<table>
<tr><td></td><td colspan="4">Nicholas Institute: “The statistical analysis included predictors for many but not all of the factors proposed for the definition of affordability in Proposal 10, and generally, all were significant in predicting the likelihood of being in arrears, receiving a 24-hour notice, and disconnections (excepting home value for disconnections). This suggests complex relationships between sociodemographic, home attributes, neighborhood characteristics, and energy usage. Capturing this complexity in reported metrics over time is supported by the findings of the statistical analysis.”

Duke Energy: “The Companies support the North Carolina Utilities Commission opening an affordability docket similar to the process that the California Public Utilities Commission ordered to evaluate affordability for their regulated utilities.”</td></tr>
<tr><td>Proposal Number: 11</td><td colspan="4">Proposal Name: Prioritized Marketing and Distribution of Low-Income Funds</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)</td><td colspan="4">Summary of Program Description: This recommendation could work in combination with or independently of recommendation LIAC PP011. Recognizing that affordability challenges and impacts are experienced more acutely by some households and communities than others, there is a need to ensure that low-income funds and other support are prioritized in a manner that has the greatest impact for those most affected and addresses, to the extent practicable, certain disparities that were exposed as a result of the Companies’ analysis. For example, the analytics show that African American households served by the Companies experience the highest rate of meeting the Companies’ arrears definition (33% of all households, compared to the average of approximately 16% for all households) as well as the highest rate of disconnections for non-pay (8% compared to 3.9%). Rental, multifamily, mobile home and low-value households experienced similar disparities. In summary, the marketing and distribution of low-income funds and programs should prioritize the customers that experience the highest rate of arrearages and disconnections for non-pay.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>76%</td><td>0%</td><td>10%</td><td>14%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">Public Staff: “All low-income customers should be eligible for low-income programs and initiatives. There does not appear to be an EE component tied to the assistance sought in this program.”

Nicholas Institute: “The findings of the statistical analysis provide support for prioritizing outreach to based on sociodemographic and electric burden.”

Rowan Helping Ministries: “Carving our communities for distribution of funding could negatively more rural communities/households.”</td></tr>
<tr><td>Proposal Number: 12</td><td colspan="4">Proposal Name: Required Reporting of Key Credit and Collections Data by NCUC Regulated Utilities</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as</td><td colspan="4">Summary of Program Description: The challenges posed by the COVID-19 crisis have heightened the importance of sustained, affordable access to essential home energy service for all households in NC and across the nation.</td></tr>
</table>

OFFICIAL COPY
Sep 26 2023

<table>
<tr><td>submitted by NC Justice Center)</td><td colspan="4">Yet, there is currently only limited capacity and opportunity in NC to gain a clear, data-driven understanding of the number of households that lose access to home energy services and otherwise struggle with utility affordability and security. Without the data, home energy affordability challenges and their often-dire consequences remain invisible, and the effectiveness of utility credit and collections practices cannot be assessed. Further, development and implementation of effective programs and policies to address access and affordability challenges is thwarted by lack of data. There is a pressing need to step up utility collection and public reporting of data reflecting service disconnections and restorations, as well as other measures of home energy security.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>71%</td><td>5%</td><td>5%</td><td>19%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">Public Staff: “These data points could provide meaningful value and may be appropriate as one of the metrics established in the next Duke rate cases.

Duke Energy: “The Companies support the reporting of aggregated data pending it meets the requirements to keep information confidential. If the NCUC approves the reporting of zip code level data, the requirements should align with a NCUC decision in the pending Rulemaking filed in Docket No. E-100, Sub 161.”</td></tr>
<tr><td>Proposal Number: 13</td><td colspan="4">Proposal Name: Minimum Bill Pilot Program</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)</td><td colspan="4">Summary of Program Description: Historically, Duke Energy has had a two-part rate for residential customers: (1) a volumetric, or per kilowatt hour rate; and (2) a fixed, customer charge, currently set to $14.00 per month. As part of its Order establishing the Low-Income Affordability Collaborative, the Commission asked whether a minimum bill concept would be appropriate as a substitute for fixed monthly charges. To explore this minimum bill rate design, Duke Energy will offer customers who enroll in bill payment assistance programs and customers that enroll in any low-income energy efficiency or any tariffed on-bill financing program a minimum bill option. Under the minimum bill option, participating customers would owe a minimum of about $14.00 per month, regardless of usage, and the prior $14.00 customer charge would be removed from the bill and folded into the volumetric rate. This would result in an increase of about 1.27 cents/kWh, increasing the value of any energy efficiency investments and providing bill savings for all customers who use less than about 1,100 kWh/month. Any customers who consume more than 1,250 kWh/month and may face an increase in their monthly bill but are enrolled in a discount rate or bill payment assistance program would be protected from being harmed from the risk of bill increases from the incremental increase in the volumetric rate.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>62%</td><td>0%</td><td>14%</td><td>24%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">Public Staff: “This program does not follow cost of service principles. Not a mitigation program.”</td></tr>
</table>

OFFICIAL COPY
Sep 26 2023

<table>
<tr><td></td><td colspan="4">Dominion: “Proposal doesn’t explain how this program will be funded. Need more information on how the utility is expected to recover costs when usage that exceeds the minimum payment.”

Nicholas Institute: “The statistical analysis findings showed that households with higher winter and summer peak impact were more likely to be in arrears and receive 24-hour notifications. Those households at the highest categories of impact were also more likely to be disconnected.”

Duke Energy: “The Companies do not support the proposed minimum bill pilot. Overall, the Companies support minimum bill as a rate design tool similar to minimum bill rate design offered by Duke Energy regulated utilities in South Carolina and Florida.”</td></tr>
<tr><td>Proposal Number: 14</td><td colspan="4">Proposal Name: Voluntary Weatherization, Energy Efficiency, Urgent Repair Partnership Forum co-led by North Carolina Department of Environmental Quality and the North Carolina Utilities Commission</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)</td><td colspan="4">Summary of Program Description: This proposal recommends the creation of a voluntary forum where leaders from NC Department of Environmental Quality (“DEQ”), the NCUC, the NC Housing Finance Agency, regulated utilities, and other stakeholders would periodically meet to coordinate the operation of respective EE, Urgent Repair, and Weatherization programs. The DEQ is responsible for administering the Weatherization Assistance Programs (“WAP”) in North Carolina. The North Carolina Housing Finance Agency runs an Urgent Repair Program. The NCUC oversees certain energy efficiency programs in NC, and some utilities maintain programs that address certain weatherization and urgent repair / health and safety dynamics for residential ratepayers. The goal of the Forum would be to create new ways that operators of these respective programs could meet the needs of low-income residential customers through better coordination of program design, administration, and implementation.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>81%</td><td>5%</td><td>5%</td><td>9%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">Public Staff: “This proposal would duplicate initiatives of the State Energy Office and thus is unnecessary.”</td></tr>
<tr><td>Proposal Number: 15</td><td colspan="4">Proposal Name: Revisions to the Duke Energy Winter Moratorium</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)</td><td colspan="4">Summary of Program Description: During part of the COVID pandemic, and to the credit of the NCUC, the Public Staff, the NC Attorney General, and Duke Energy, what is commonly known as the Duke Energy Winter Moratorium (“WM”) was expanded to include LIEAP, CIP, and NC Hope recipients. The modified WM covered three of Duke’s Companies; Duke DEC, Duke DEP, and Piedmont Natural Gas and covered 114,000 residential accounts. This proposal would permanently alter the Winter Moratorium by adding the following provisions: 1) Automatically enroll CIP and LIEAP recipients in the moratorium. 2) A moratorium against disconnections would be provided to eligible customers provided arrearages remain below $550. 3) An automatic CIP assistance referral would be triggered when arrears reach</td></tr>
</table>

OFFICIAL COPY
Sep 26 2023

<table>
<tr><td></td><td colspan="4">$550. 4) A 24-month repayment plan for any arrearage balances that remain upon the conclusion of the moratorium with a provision allowing for 2 missed payments per year during the repayment period.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>67%</td><td>8%</td><td>10%</td><td>14%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">Crisis Assistance Ministry: “Automatically enrolling customers should be done with caution. If a family cannot keep up with their payment, stopping the disconnection automatically doesn't make it any easier for them to afford electricity of course. Alternatives are -- work with the person to pay as much as they can each month to minimize debt build up, encourage them to apply for all the available funds so as not to lose them, help the person realize they can't afford to stay where they are and help them move in with a family member, friend or in some cases a shelter can be their best option (some approaches we consider at Crisis Assistance Ministry.) Each of these could be more empowering than encouraging a person to continue amassing debt, even if there are 24 months to pay it off or inadvertently encouraging them not to seek available winter aid. If we go this route we should send a notice that they will not be disconnected in certain temperatures but clearly stating that not only is the bill accumulating but that there are places to call for housing counseling to explore alternative options (including budget counseling if applicable) or financial assistance.”

Public Staff: “This would be best suited as a pilot program, specific – at least initially – to the winter season only. The Commission should consider expanding any potential pilot to all IOUs and LDCs.”

Rowan Helping Ministries: “Our observation is that the COVID moratorium did nothing to help our clients but saddled them with higher bills and payment arrangements they could not manage once the bills came due. It created a debt tsunami.” –

Duke Energy: “The Companies support enrolling LIEAP and CIP recipients in a Winter Moratorium that aligns with the timeframe detailed in NCUC Rule 12-11 from November 1 – March 31. LIEAP and CIP recipients would be automatically enrolled in a 6-month payment arrangement at the end of the moratorium. The Companies do not support a summer moratorium or automated referral for arrears greater than $550. The Company will request to seek cost recover of any debts that result to uncollectible charges; similar to the existing process to collect uncollectible charges. The enrollment of LIEAP and CIP in a Winter Moratorium is dependent up receiving the required information from the NCDHHS.”</td></tr>
<tr><td>Proposal Number: 16</td><td colspan="4">Proposal Name: NCUC Rulemaking to Re-examine the Effectiveness of the Regulatory Consumer Protection Structure</td></tr>
<tr><td>Submitter: Al Ripley, Multi-Stakeholder Program Proposals (as</td><td colspan="4">Summary of Program Description: In light of the sweeping economic and technological transformation of the electric power sector, and with the prospect of dramatically increased reliance on electricity service in the face of electrification and decarbonization efforts, low-income and historically</td></tr>
</table>

OFFICIAL COPY
Sep 26 2023

<table>
<tr><td>submitted by NC Justice Center)</td><td colspan="4">disadvantaged households and communities are particularly reliant upon effective utility consumer protections. However, many of the existing state consumer protection frameworks are no longer effective in providing consumers with reasonable security from loss of vital service. Today's energy price levels and critical importance of service may not have been contemplated when original regulations were adopted decades ago. As evidenced LIAC assessments of residential customer involuntary service disconnections, existing North Carolina consumer protections have proven inadequate to provide an acceptable level of household energy security and uninterrupted access to vital service. Meantime, the necessity of electricity service is increasing for a wider range of purposes — school, work, building end uses, and transportation. When consumer protections are inadequate and energy security is compromised, the protections for low-income households actually work counter to the goals and objectives of federal and state payment assistance and energy efficiency programs. For example, when a state LIHEAP office scrambles to cobble together the resources necessary to keep a client from losing utility service, those efforts may be undermined by an unreasonable payment plan or onerous security deposit and late payment fee provisions. What is needed now is a reexamination of existing utility consumer protections to ensure that vulnerable customers who demonstrate good faith efforts to make affordable utility payments are protected from loss or degradation of service.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>81%</td><td>5%</td><td>0%</td><td>14%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">Duke Energy: "The Companies support the review of the existing regulatory consumer protections detailed in NCUC Rule R12-11. If the output of the review requires technical system changes, the Companies request the required timeframe to update impacted systems which could be 12 months. In addition, the Companies will seek cost recovery of costs associated with required technical system changes and costs incurred as a result of any policy/rule changes."</td></tr>
<tr><td>Proposal Number: 17</td><td colspan="4">Proposal Name: Help My House Model (based on South Carolina program)</td></tr>
<tr><td>Submitter: Christina Cress, Bailey & Dixon, LLP</td><td colspan="4">Summary of Program Description: "The results of the 'Help My House' pilot [in South Carolina] were extremely positive. Billing data on the 125 participating homes indicates a 34 percent reduction in energy use (1.35 million kWh) in the year after the energy efficiency improvements were completed, an average savings of $288 per home after loan payments."</td></tr>
<tr><td>Notes:</td><td colspan="4">Proposal 17 redirected to the Tariff Working Group[55] to align with Duke Energy's On-Tariff Bill offer under consideration.</td></tr>
<tr><td>Proposal Number: 18</td><td colspan="4">Proposal Name: Smart $aver Low-income Multi-Family Retrofit</td></tr>
</table>

[55] Insert Description of the Tariff Working Group effort in comparison to the settlement in the prior DEC rate case settlement or HB951 requirement

OFFICIAL COPY
Sep 26 2023

Submitter: Christina Cress, Bailey & Dixon, LLP	**Summary of Program Description:** Smart $aver LIMP projects would involve efficiency upgrades for buildings with currently high energy consumption, specifically for lighting, appliances, weatherization, heating systems, controls, domestic hot water, and HVAC/mechanical systems. Eligible measures under the LIMRP would be directly installed at no charge to the low-income customer, and would include: (1) comprehensive energy assessment, including customer education; (2) weatherization, including wall, attic, floor, and pipe and duct insulation, as well as air sealing (caulking, weather stripping, door and window hardware, window parting beads and stops); (3) programmable thermostats; (4) blower door analysis; (5) heating system tune-up, repair, and replacement; (6) low-flow showerheads and faucet aerators; (7) minor building repairs, including glass replacement and adjustment of window meeting rails; (8) replacement of inefficient appliances, including refrigerators and clothes washers; (9) installation of compact fluorescent lamps ("CFLs") and LEDs; (10) health and safety measures such as wire inspection, ventilation, and the DOE lead-free protocol; and (11) multi-family-building-specific measures, such as common area lighting fixtures, HVAC motors and controls and heating systems.			
Notes:	**Proposal 18 combined with Proposal 8 and evaluated as Proposal 23.**			
Proposal Number: 19	Proposal Name: The NC Healthy Homes Initiative ("NC HHI")			
Submitter: Detrick Clark, The North Carolina Community Action Association	**Summary of Program Description:** One of the by-products of weatherization programs is the positive impact on health, as outlined in the CDC's HI-5 (Health Impact Interventions in 5 years). But unfortunately, some repairs are ineligible for NC WAP and DEC WX funding, leaving important health-related concerns untouched. The NC Healthy Homes Initiative will provide families with home repairs that are crucial to improving their overall health. Considering most Americans spend nearly 60 percent (pre-COVID) of their time in their homes, the condition of their homes has a significant impact on their health and overall quality of life. As a result, the condition of one's home plays a vital role in our health. Poor quality and inadequate housing contribute to health problems such as chronic diseases and injuries and can have harmful effects on childhood development. Unfortunately, many of North Carolina's families cannot afford the repairs and home safety updates necessary to protect their physical and mental health. The NC HHI will help fill these gaps by providing funding to North Carolina's most underserved communities to make those additional, health-centered, repairs for families to increase overall health outcomes.			
Assessment Results:	**Support**	**Support with Revisions**	**Do Not Support**	**Abstain**
	48%	29%	9%	14%
LIAC Member Comments:	**Southern Environmental Law Center:** "This is a critically needed program and builds on NCCAA's experience with the BC/BS grant for the Healthy Homes Initiative and the Duke Healthy Home Fund. But it is not clear from the proposal where the funds would come from for this NC HHI. Ratepayer funds have historically been limited to energy efficiency related upgrades. Ideally, healthcare related funds or other government programs could support			

OFFICIAL COPY
Sep 26 2023

	an initiative like this to improve the health and safety of homes and make them ready for EE upgrades." **AARP:** "This program should be funded first with DOE weatherization funds and LIHEAP." **Public Staff:** "The program administration should be determined by RFQ. Only non-ratepayer funds should be utilized for health and safety work. Ratepayer funds could be used for EE measures and to reduce cost of service." **Dominion:** "Scope is focused on healthier home initiative vs removing energy burden via EE initiatives." **North Carolina Justice Center:** "This is a critically needed program and builds on NCCAA's valuable experience with the BC/BS grant for the Healthy Homes Initiative and the Duke Helping Home Fund. But it is not clear from the proposal where the funds would come from for this NC HHI. Ratepayer funds have historically been limited for energy efficiency related upgrades. Ideally, healthcare funds could be identified to support an initiative like this to improve the health and safety of homes, which would have the added benefit of making them ready for EE upgrades." **North Carolina Sustainable Energy Association** - "We support the intent of the program but think there needs to be more discussion about where the funding for this program comes from since that does not seem to have been defined in this proposal." **Southern Alliance for Clean Energy:** We strongly support the establishment of consistent funding for health, safety, and incidental repairs to supplement federal, state, and ratepayer funds for energy efficiency. We know there are potential challenges with regard to use of ratepayer funds for these purposes but are committed to working through the associated regulatory issues and/or assist in seeking additional funding from other sources." **Duke Energy:** "The Companies do not support this proposal as it doesn't have a specific time to the scope of identifying opportunities to address affordability for low-income customers."
Proposal Number: 20	Proposal Name: The Duke Energy Progress Weatherization Program (DEP WX)
Submitter: Detrick Clark, The North Carolina Community Action Association	**Summary of Program Description:** The Duke Energy Progress Weatherization Program (DEP WX) is a robust weatherization program designed to assist DEP income-qualified customers by directly installing energy-efficient measures and providing education on energy efficiency. Like the Helping Home Fund, Healthy Home Initiative, and the DEC WX program, the DEP WX Program would lean on the collaboration and expertise of the NCCAA, and its dedicated weatherization service providers network for implementation. If expanded, funds will be distributed to participating Service Providers involved in assisting income-qualified

OFFICIAL COPY
Sep 26 2023

<table>
<tr><td></td><td colspan="4">customers with energy efficiency. The DEP WX program would function as a rebate program.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>52%</td><td>29%</td><td>0%</td><td>19%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">Southern Environmental Law Center: “For the same reasons that we support LIAC Program Proposal Number 2, which calls for a DEP Weatherization Program modeled after the DEC Weatherization Program, we also support the substance of this Proposal (No. 20). Even though NCCAA has unmatched experience administering this kind of program (as it does the DEC Weatherization Program, Helping Home Fund, and HHI), it is our understanding that Duke Energy would need to go through an RFP process to identify the program administrator and that it may be premature to assign that role to NCCAA at this time.”

Crisis Assistance Ministry: “This is not a suggested revision, it's a comment overall on this as well as the other weatherization related proposal/s all of which we do support. It's also somewhat similar to the concept in #23. We operate in a space at Crisis Assistance Ministry where over 15,000 renting households annually need help with utilities and/or rent (often times it's rent one month and utilities the next month when juggling on a limited income.) Less than 1% are homeowners. Weatherization solutions that are more equitability available for low-income families would include more options for rental housing. In the vast majority of apartment complexes there is income segregation (apartments class A, B, C corresponds to income.) Could we work with landlords running low-income apartment complexes as the target of weatherization outreach? Certainly, many are owned from out of state vendors or equity funds but still there are thousands of complexes owned by local "mom and pop" landlords who could help 200-300 families at one time if they are given an opportunity to receive help weatherizing their units.”

AARP: “This program should be funded first with DOE weatherization funds and LIHEAP.”

Public Staff: “The program administration should be determined by RFQ. Only non-ratepayer funds should be utilized for health and safety work. Ratepayer funds could be used for EE measures and to reduce cost of service.”

Nicholas Institute: “In the statistical analysis, higher winter peak and summer peak usage were associated with a customer being more likely to be in arrears, receive a 24-hour notice, and be disconnected. These results would support reducing high energy use via weatherization.”

North Carolina Justice Center: “For the same reasons that we support LIAC Program Proposal Number 2, which calls for a DEP Weatherization Program modeled after the DEC Weatherization Program, we also support the substance of this Proposal (No. 20). Even though NCCAA has unmatched experience administering this kind of program (as it does the DEC</td></tr>
</table>

OFFICIAL COPY
Sep 26 2023

<table>
<tr><td></td><td colspan="4">Weatherization Program, Helping Home Fund, and HHI), it is our understanding that Duke Energy would need to go through an RFP process to identify the program administrator and that it may be premature to assign that role to NCCAA at this time."

Duke Energy: "The Company plans to file the DEP Income Weatherization Program with the NCUC within the next two weeks."</td></tr>
<tr><td>Notes:</td><td colspan="4">On June 13, 2022, in Docket No. E-2, Sub 1299, DEP filed its Proposed Residential Income-Qualified Energy Efficiency and Weatherization Program. The proposed filing is similar to Proposal 20.</td></tr>
<tr><td>Proposal Number: 21</td><td colspan="4">Proposal Name: NC Low-Income Energy Major Home Repair Program</td></tr>
<tr><td>Submitter: Detrick Clark, The North Carolina Community Action Association</td><td colspan="4">Summary of Program Description: The NC Low-Income Energy Major Home Repair Program is a preweatherization deferral assistance program designed to help DEP and DEC program eligible families with costly home repairs and other health and safety issues that have previously prevented them from receiving assistance from weatherization assistance program service providers. Annually, hundreds of families are added to the NCWAP deferral list because their homes were deemed fiscally and physically inadequate. Since 2018, over 1,100 low-income families have been placed on the NC Weatherization Assistance Program deferral list because the condition of their homes rendered the delivery of weatherization services either unsafe or ineffective. Because the NCWAP program prioritizes families with children and those that are either elderly, disabled or high-energy users, deferrals present an additional hardship for these families who are already struggling to simply make ends meet.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>52%</td><td>29%</td><td>5%</td><td>14%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">Southern Environmental Law Center: "As we said with respect to No. 19, this is a critically needed program and builds on NCCAA's valuable experiences. But it is not clear from the proposal where the funds would come from for this Major Home Repair program. Ratepayer funds have historically been limited to energy efficiency related upgrades. Ideally, federal or state funds could support an initiative like this to provide the repairs necessary to make them ready for EE upgrades."

AARP: "We support DOE or infrastructure funds from the Federal government be used for a pilot program."

Public Staff: "The program administration should be determined by RFQ. Only non-ratepayer funds should be utilized for health and safety work. Ratepayer funds could be used for EE measures and to reduce cost of service."

Nicholas Institute: "In the statistical analysis, higher winter peak and summer peak usage were associated with a customer being more likely to be in arrears, receive a 24-hour notice, and be disconnected. These results would support reducing high energy use and this proposal would facilitate that</td></tr>
</table>

OFFICIAL COPY
Sep 28 2023

<table>
<tr><td></td><td colspan="4">process by providing for repairs and reducing deferrals from weatherization assistance."

North Carolina Justice Center: "As we said with respect to No. 19, this is a critically needed program and builds on NCCAA's valuable experiences. But it is not clear from the proposal where the funds would come from for this Major Home Repair program. Ratepayer funds have historically been limited to energy efficiency related upgrades. Ideally, federal or state funds could support an initiative like this to provide the repairs necessary to make them ready for EE upgrades."

North Carolina Sustainable Energy Association: "Similar to our response to proposal 19, we support the program but are interested in more discussion about how to fund it since that does not seem to have been defined."

Southern Alliance for Clean Energy (SACE): "We strongly support the establishment of consistent funding for health, safety, and incidental repairs to supplement federal, state, and ratepayer funds for energy efficiency. We know there are potential challenges with regard to use of ratepayer funds for these purposes, but are committed to working through the associated regulatory issues and/or assist in seeking additional funding from other sources."

Duke Energy: "The Companies do not support this proposal as it doesn't provide a specific time to the scope of identifying opportunities to address affordability for low-income customers."</td></tr>
<tr><td>Proposal Number: 22</td><td colspan="4">Proposal Name: Customer Affordability Program ("CAP")</td></tr>
<tr><td>Submitter: Brad Harris, Duke Energy</td><td colspan="4">Summary of Program Description: CAP is a monthly credit applied directly to the customer's bill. The customer would receive the credit for 12 months. Eligible customers would be automatically enrolled in the program via a list given to the Companies from eligible state agencies that are already qualifying people for government assistance programs. Customers would be eligible for CAP for a predetermined amount of time and will require recertification after this timeframe from a CAP participating organization.</td></tr>
<tr><td>Notes:</td><td colspan="4">Proposal 22 combined with Proposal 9 are evaluated as Proposal 24.</td></tr>
<tr><td>Proposal Number: 23</td><td colspan="4">Proposal Name: Smart $aver Low-income Multi-Family Retrofit Program ("Smart $aver LIMP")</td></tr>
<tr><td>Submitter: Christina Cress, Bailey & Dixon, LLP with NCJC and other Stakeholders</td><td colspan="4">Summary of Program Description: Smart $aver LIMP projects would involve efficiency upgrades for buildings with currently high energy consumption, specifically for lighting, appliances, weatherization, heating systems, controls, domestic hot water, and HVAC/mechanical systems.</td></tr>
<tr><td rowspan="2">Assessment Results:</td><td>Support</td><td>Support with Revisions</td><td>Do Not Support</td><td>Abstain</td></tr>
<tr><td>62%</td><td>19%</td><td>0%</td><td>19%</td></tr>
<tr><td>LIAC Member Comments:</td><td colspan="4">AARP: "We support DOE or infrastructure funds from the Federal government be used for a pilot program."</td></tr>
</table>

OFFICIAL COPY
Sep 26 2023

	Public Staff: "Ratepayer funds could only be used only for the EE components; non-ratepayer funds could be leverage for non-EE components of this proposal." **Rowan Helping Ministries:** "The utility should not be administering the program or leveraging funds. Seems like this should fall under a community action agency or non-profit." **Nicholas Institute:** "The findings of the statistical analysis support focusing on reducing energy consumption in multi-family housing, particularly multi-family rental housing." **Duke Energy:** "The low-income multifamily segment of the Duke Energy customer base is an area of opportunity to assist the income-qualified tenants. Duke has been working with a group of interested stakeholders on a investigating a low-income multifamily pilot program and thru that work has identified challenges including, but not limited to the following: • These income qualified customers maybe receiving overlapping efficiency measures through the Neighborhood Energy Saver Program • There is an existing direct install multifamily program in the Duke Energy program portfolio that can serve all customers, so there is potential confusion for this program. Are these programs related or operated separately while serving the same multifamily dwellings? • There isn't an intake process for determining low-income eligibility directly through Duke Energy right now. The information is sensitive and time constrained. Is the intent to use other low-income entities to determine eligibility? • The weatherization agencies also can serve this segment of the population, what is the best way to coordinate services between the programs? • This program seems to be targeted and reported through the tenant meter, since the property owner must agree to the upgrades, what is the proposed coordination with tenant and property owner? • Does the landlord or property owner have to agree not increase rent for some period of time? • How will energy savings be captured when the measure might include shared space like attic insulation? • Is fully up to Duke Energy to determine the best method, process and cost to implement the upgrades? Would Duke be expected to submit or assist with grant applications? At what point would the NCUC evaluate the program for best practices by project or at/after EM&V?"
Notes:	**Proposal 23 reflects the combination of Proposal 8 and Proposal 18.**
Proposal Number: 24	Proposal Name: Customer Affordability Program ("CAP")
Submitter: Joint proposal from multiple stakeholders merging Program Proposal # 9 with # 22	**Summary of Program Description:** CAP is a monthly credit applied directly to the qualified customer's bill. Eligible customers would be automatically enrolled in the program via a list given to the Companies from eligible state agencies that are already qualifying people for government assistance programs. Customers would be eligible for CAP for a predetermined amount of time and will require recertification after this timeframe. The CAP program will strive to develop a process so that customers can be automatically recertified.

OFFICIAL COPY
Sep 26 2023

Assessment Results:	**Support**	**Support with Revisions**	**Do Not Support**	**Abstain**
	62%	24%	5%	9%
LIAC Member Comments:	**AARP:** "AARP supports such comprehensive and coordinated measures to help low-income customers pay their bills and supports the idea conceptually. We especially like the auto enrollment feature. We are interested to ensure that the program can be readily understood by consumers and can be administered without undue complexity. We would like more information on the complexities created by having three different benefit tiers. A pilot program should be used to test the viability of this new idea." **Public Staff:** "This program is supported to the extent that it is based upon cost of service principles. Participation in applicable EE programs should be required instead of 'highly suggested.'" **North Carolina Dept of Health and Human Services:** "In regards to the Tiered approach, DHHS does not currently capture the data necessary to determine the FPL levels discussed in this proposal. For CIP, LIEAP, LIHWAP, SNAP, and Medicaid, a recipient's income eligibility is determined by whether they fall under a certain FPL but what percentage they fall into is not recorded. This could potentially change in the future; however, due to the amount of work that is ongoing with our NC FAST team on making changes to our system that take priority, it is unclear as to when our team would have availability to make these upgrades to capture this data." **Carolina Industrial Groups for Fair Utility Rates (CIGFUR):** "Violates cost-causation principles to recover costs from all classes of customers. Costs should be contained to residential class of customers. This proposed interclass cross-subsidization is not consistent with existing NC law, in particular H951." **Nicholas Institute:** "The results of the analysis support efforts that would reduce electric burden for households." **Rowan Helping Ministries:** "Requirement for participants in program to have an energy efficiency audit to identify ways to reduce energy consumption. Recertification would take into consideration the customers implementation of energy efficiency recommendations and/or use of the free weatherization services."			
Notes:	**Proposal 24 reflects the combination of Proposal 9 and Proposal 22.**			

A. Duke Energy Perspective

Affordability Ecosystem

Duke Energy recognizes that multiple solutions are necessary to address energy affordability challenges for low-income customers ("Affordability Ecosystem"). The

OFFICIAL COPY
Sep 28 2023

Affordability Ecosystem is a multipronged approach to address affordability challenges that are both short-term (arrears and DNP) and long-term (electric energy burden and energy intensity) by connecting eligible customers with current and future products and services. The LIAC discussions highlighted the opportunity for in-bound requests from low-income customers to receive information about Duke Energy and third-party offerings designed to address affordability challenges. Duke Energy is committed to addressing energy affordability challenges by providing products and services that complement the affordability ecosystem. The products and services include bill payment assistance, energy efficiency offerings with a focus on weatherization, and equipping our customers service team with information to proactively educate low-income customers about opportunities to address affordability challenges.

Fourteen of the twenty-two proposals recommended by LIAC were related to expanding energy efficiency programs and offerings to income qualified customers. These proposals suggest the LIAC's acknowledgment that energy efficiency and bill pay assistance are necessary to address affordability challenges experienced by low-income customers.

Proposals 1, 2, 3, 4, 5, 7, 11, 20, and 23

During the Joint Collaborative Meeting in LIAC Workshop V, LIAC members were informed about the work underway to file a DEP weatherization program that would apply learnings from WPERP and a DEC pilot designed to target income-qualified high electric energy usage residences. On June 13, 2022, in Docket No. E-2, Sub 1299, DEP filed its Proposed Residential Income-Qualified Energy Efficiency and Weatherization Program. The proposed filing is similar to Proposals 2 and 20. Additionally, on June 30,

OFFICIAL COPY
Sep 28 2023

2022, in Docket No. E-7, Sub 1272, DEC filed its Proposed Residential Income-Qualified High-Energy Use Pilot. This proposed pilot is the product of the settlement approved Docket No. E-7, Sub 1214 issued on March 31, 2021. This filing is similar to the Proposal Number 3 detailed above. The assessment of these three proposals received a majority of consensus with support and support with revisions. Comments recently filed in in Docket No. E-2, Sub 1299 on behalf of LIAC members, North Carolina Justice Center, North Carolina Housing Coalition, Southern Alliance for Clean Energy and Southern Environmental Law Center applaud DEP and expressing their strong support for the DEP Proposed Residential Income-Qualified Energy Efficiency Weatherization Program.[56]

Similar to the process to evaluate the recently filed energy efficiency programs described above, Duke Energy will discuss the energy efficiency related proposals[57] with members of the EE/DSM Collaborative by year-end and file an update on the proposal status in the next EE/DSM annual filings. Duke Energy recognizes the difference or "gap" in both energy savings and program spending for energy efficiency offered in DEC and DEP. There are a number of factors that lead to this outcome including, but not limited to, the difference in the number of eligible customers and programs offered. As Duke Energy continues to identify opportunities to offer additional energy efficiency programs and work toward increasing participation, there is a likelihood that the gap will be reduced.

Proposal 6

While Duke Energy recognizes that participation in energy efficiency programs supports reducing a customer's energy burden and energy intensity, the requirement to participate in a program may be outside of the customer's control. For example, if a

[56] ViewFile.aspx (ncuc.gov).
[57] LIAC Proposals 4, 5, 7, 11, and 23 detailed in Appendix G.

OFFICIAL COPY
Sep 26 2023

customer is renting their residence, the property owner must provide authorization. Duke Energy is open to evaluating an arrears management that is not specific to energy efficiency program participation as discussed further in Proposal 24.

Proposal 10

As previously discussed in Section IV of the Final Report, Duke Energy supports a Comprehensive Study to evaluate affordability challenges and solutions for North Carolina's low-income customers. If a Comprehensive Study is ordered by the Commission, Duke Energy believes the LIAC's research will be helpful in forming the scope which may include a state-wide definition of affordability and metrics. As described earlier in the Final Report, the scope of researching affordability by the CPUC and PPCU varied. Although the affordability challenges experienced by low-income customers may be similar across jurisdictions, the dynamics of each jurisdiction vary. For this reason, Duke Energy does not support adopting the CPUC's definition of affordability and metrics.

Proposal 12

If the Commission approves Proposal 12, the reporting requirements should align with the Commission's decision in the pending Rulemaking filed in Docket No. E-100, Sub 161.

Proposal 13

The Companies do not support the proposed minimum bill pilot. Overall, the Companies support minimum bill as a rate design tool similar to minimum bill rate design offered by Duke Energy regulated utilities in South Carolina and Florida.

Proposal 14

OFFICIAL COPY
Sep 26 2023

Duke Energy supports Proposal 14 and recognizes the scope of the forum may expand to include areas beyond electric energy affordability. Duke Energy's participation will allow for policy discussions and input to address electric energy affordability challenges and opportunities to collectively assist more income-qualified customers.

Proposal 15

On February 11, 2021, Duke Energy notified the Commission of plans to broaden the winter disconnection moratorium for some of the most vulnerable members of our communities by expanding eligibility to include LIEAP and CIP recipients. Duke Energy voluntarily extended the winter moratorium three additional times through March 31, 2022. This change removed the potential for a disconnection of service for non-payment for the timeframe of the winter moratorium, provided additional time to access LIEAP and other assistance funds, and allow a transition to manageable payments for remaining balances at the end of the winter heating season. Duke Energy worked with NCDHHS to identify the North Carolina customers that currently receive, or received during the 2019-2020 winter season, assistance through LIEAP or CIP. Both programs are components of the federal Low-Income Home Energy Assistance Program.

Under normal circumstances and pursuant to the Disconnection Rule, Duke Energy's residential customers in North Carolina may qualify for a disconnection moratorium from November 1 to March 31 if they are (1) certified by the local social service office which administers the Energy Crisis Assistance Program or other similar programs as being eligible to receive assistance under such programs (e.g., LIEAP-eligible), (2) suffering financial hardship that prevents them from being able to afford their bills or a 6-month payment arrangement, and (3) have a household member who is

OFFICIAL COPY
Sep 28 2023

handicapped and/or elderly (65 or older) or both. Duke Energy acknowledges the benefits of extending the moratorium to LIEAP and CIP recipients to prevent involuntary interruption for electric service and the opportunity to seek LIEAP and CIP bill pay assistance. Duke Energy supports expanding the winter moratorium to include LIEAP and CIP recipients that aligns with the timeframe detailed in the Disconnection Rule and automatically enrolling moratorium participants in a six-month payment arrangement at the end of the moratorium timeframe. The analytics data supports that LIEAP/CIP customer bills are higher in the winter months in comparison to non-low-income customers. The winter moratorium timeframe aligns with the current timeframe that LIEAP assistance is available for eligible customers (dependent upon heating source). Duke Energy does not support automatic referral for participation in the moratorium for accounts with an arrears greater than $500 nor expanding the moratorium to include the summer months. If there is a broader decision to permanently expand winter moratorium eligibility, Duke Energy may be required to implement technical changes. The expansion of a winter moratorium eligibility requirements could result in increased uncollectibles that will be requested via cost recovery. The enrollment of LIEAP/CIP in the moratorium is dependent upon an approved agreement with NCDHHS. Duke Energy recommends the Commission evaluate expanding eligibility of winter moratorium in a review of the disconnect rules as detailed in Proposal 16.

Proposal 16

Duke Energy supports the Commission initiating a rulemaking docket to review the existing regulatory consumer protections detailed in NCUC Rule R12-11.

OFFICIAL COPY
Sep 28 2023

Proposals 19 and 21

Duke Energy does not support these programs because they are outside the scope of addressing specific electric energy affordability opportunities for low income-customers.

Proposal 24

Due to the similarities of Proposals 9 and 22, the submitters agreed to combine the proposals for assessment purposes by LIAC members and rename it as Proposal 24. Proposal 24 details a submission for an arrears management and bill payment assistance program for eligible customers referred to as the Customer Assistance Program ("CAP").[58] The proposed program would assist low-income customers who are experiencing electric energy affordability challenges. The design of CAP applies feedback shared by stakeholders such as autoenrollment, ease of implementation, and low program administration costs which would be no more than 5% of the value of the program costs after the initial year.

Duke Energy will work with NCWAP to implement a referral program for CAP recipients to apply for weatherization services and eligible equipment upgrades such as those offered in WPERP. These efforts support the Affordability Ecosystem by addressing short-term and long-term affordability challenges.

As detailed in the LIAC analytics, compared to non-low-income households, LIEAP/CIP recipient households experience an energy intensity that is 100% higher in the winter and approximately 40% higher in the summer. The average electric energy burden for Duke Energy households is 3.5% compared to over 8% for LIEAP and CIP

[58] As discussed in Footnote 28 in Section III.A.1, the proposed discount bill discount program was referred to as the Customer *Affordability* Program throughout the LIAC and in the Companies' Proposal 24 but was recently renamed as the Customer *Assistance* Program.

OFFICIAL COPY
Sep 28 2023

households[59]. The statistical modeling results show that households with an 8% electric energy are 19% more likely to meet the arrears struggling definition compared to households with a 6% electric energy burden. The direct impact of reducing a household's electric energy burden makes their bill more affordable by reducing the likelihood that they may receive a 24-hour disconnect notice and experience a DNP.

The autoenrollment of LIEAP and CIP recipients in CAP eliminates the hurdle of a customer being required to complete *another* application for assistance. In order to automatically enroll LIEAP and CIP recipients in CAP, Duke Energy and the NCDHHS would need to execute a Data Sharing Agreement.[60] Upon seeking approval for CAP in a future regulatory proceeding before the Commission, the Companies must request that the Commission also approve using LIEAP and CIP status as eligibility criteria for receiving a bill discount. An arrears management program could be added but will require additional evaluation to determine terms and feasibility of timely implementation.

VII. Duke Energy and Public Staff Recommendations

As a result of the numerous, discussions and work provided throughout the Affordability Collaborative, Duke Energy and the Public Staff support the following recommendations for the Commission's consideration:

- The Commission should consider FPG at or below 200% when determining eligibility for programs to address affordability. As discussed in Section IV, this

[59] See Appendix C at 20.
[60] This is similar to the agreement with NCDHHS to share LIEAP and CIP recipient information to enroll them in the expanded moratorium during the COVID-19 pandemic. The Companies along with Piedmont Natural Gas informed the Commission of their intention to work with DHHS to identify the North Carolina customers that currently receive, or received during the 2019-2020 winter season, assistance through LIEAP or CIP. *See Duke Carolinas, LLC, Duke Energy Progress, LLC and Piedmont Natural Gas Company, Inc.'s Notification of Change to Winter Moratorium*, Docket Nos. E-7, Sub 1236; E-2, Sub 1228; G-9, Sub 767; M-100, Sub 158; E-7, Sub 1241 and E-2, Sub 1258 (February 11, 2021).

OFFICIAL COPY
Sep 26 2023

recommendation aligns with the majority of the income-qualified programs identified in the Sub-Team B research and analytics information completed for the LIAC.

- The Commission should approve and adopt the metrics recommended for monitoring affordability program impacts as discussed in Section III.B of the Final Report.
- The Commission should initiate a rulemaking docket to review the existing regulatory consumer protections detailed in NCUC Rule R12-11 as discussed in Section III.C of the Final Report.

VIII. Public Staff Perspective on the LIAC

Throughout the duration of the LIAC there has been robust discussion, sharing of points of views, and education on differing perspectives among the members. Those engagements have benefited the entire LIAC. The Public Staff welcomes the opportunity to explore potential avenues for making electric rates more affordable for low-income customers.

The Public Staff has been consistent in its position that cost-of-service principles remain in effect and must be a primary concern to ensure rates remain fair, reasonable, and affordable for all customers. Cross-subsidization between customer classes and within classes should be minimized and only be allowed if there is legislation requiring or permitting the cross-subsidization or upon the articulation of explicit policy decisions by the Commission.

There are two primary opportunities to assist low-income customers in paying their electric energy bills: (1) reduction of customer usage through participation in energy

OFFICIAL COPY
Sep 26 2023

efficiency programs, or (2) bill assistance, which is usually for a short term, or through low-income rates. Energy efficiency reduces energy consumption and thus should lower bills over the long-term.[61] Low-income qualified energy efficiency programs, which are typically not cost effective, should be designed such that costs in excess of benefits are minimized to the greatest extent possible, as determined by a thorough EM&V process. Any bill assistance or low-income rates should include participation in the full suite of low-income energy efficiency programs available as applicable to the individual customer's circumstances.

The Public Staff reviewed each proposal submitted by LIAC members as a standalone submission. While supportive of many of the proposals, none of the proposals were accompanied by estimates of the costs, benefits, cost-effectiveness, participation, rate impact, and other variables that would be necessary to appropriately evaluate each proposal. Such an exercise would typically occur when Duke files a program for Commission approval. Only with this and other pertinent information could the Public Staff make a final determination as to whether it supports a specific proposal. Further, if all or several of the proposals developed by the LIAC are filed for approval with the Commission, the combined rate impact of all the programs on customers should be considered.

IX. Conclusion

Duke Energy and the Public Staff appreciate the Commission's dedication to explore and address affordability challenges for low-income customers. The Final Report reflects the comprehensive and thorough work completed by the LIAC to support those

[61] Bills may increase if increases in customer usage, base rates, or riders offset the energy efficiency savings.

OFFICIAL COPY
Sep 26 2023

efforts. Although the Final Report marks a significant milestone in addressing affordability concerns, Duke Energy and the Public Staff recognize that, as detailed in the report, additional work remains through partnerships with external facing organizations to help mitigate the challenges faced by low-income customers.

OFFICIAL COPY

Sep 26 2023

APPENDIX A – LIAC

2/21/22 COMMISSION BRIEFING PRESENTATION

DOCKET NOS. E-7, SUB 1213; E-7, SUB 1214; E-7, SUB 1187; E-2, SUB 1219 AND E-2, SUB 1193

OFFICIAL COPY
Sep 26 2023

Guidehouse

North Carolina

Low Income Affordability Collaborative

North Carolina Utilities Commission Briefing

February 21, 2022

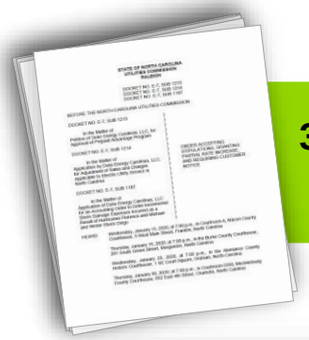
Convened by

DUKE ENERGY.

Public Staff
North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Low Income Affordability Collaborative (LIAC) Approach



38 distinct tasks for the LIAC in the Commission order

Low Income Affordability Collaborative (LIAC)

SUB-TEAM A Customer Challenges	SUB-TEAM B Affordability Metrics	SUB-TEAM C Rates & Programs	SUB-TEAM D Collaborative Coordination
exploring customer energy affordability challenges	*benchmarking definitions of and metrics used for defining "affordability"*	*investigating current assistance programs, rate designs, cost impacts*	*engaging the EE and CRD Collaboratives; proposing consensus and prioritization rules*

LIAC Program Proposal process

DUKE ENERGY. Public Staff North Carolina Utilities Commission

Joint Final Report

- Outlines the feedback and recommendations obtained from LIAC
- Documents program proposals for near-term and longer-term fully costed out programs categorized by:
  - ► programs/rate designs layered on top of rate plans
  - ► programs not requiring rate design changes (needing separate proceeding)
  - ► programs requiring rate design changes (to be considered in next general rate case)

OFFICIAL COPY
Sep 26 2023

Stakeholder work is conducted through subteams. Key subteam outputs are posed to the LIAC for endorsement.

	Subteam A	Subteam B	Subteam C	Subteam D
Subteam Tasks	**Assess Customer Challenges:** Assess current energy affordability challenges facing residential customers	**Develop Affordability Metrics:** Develop suggested metrics or definitions for "affordability" and explore trends in affordability	**Investigate Existing Rates & Programs:** Investigate the strengths and weaknesses of existing rates, rate design, billing practices, customer assistance programs and energy efficiency programs in addressing affordability	**Drive Collaborative Coordination:** Coordinate between the affordability collaborative and the comprehensive rate review and energy efficiency stakeholder groups
Co-Leads	**Rory McIlmoil** Appalachian Voices **Arnie Richardson** Duke Energy	**Conitsha Barnes** Duke Energy **La'Meshia Whittington** Advance Carolina	**Detrick Clark** NC Community Action Association **Ken Szymanski** Apartment Association of NC	**Thad Culley** Sunrun **Paula Hemmer** NC DEQ State Weatherization
Teams	20 LIAC members 12 LIAC organizations	19 LIAC members 9 LIAC organizations	23 LIAC members 12 LIAC organizations	15 LIAC members 10 LIAC organizations

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

LIAC consists for **33 organizations** and approximately **50 active participants**

Sub Team A
OFFICIAL COPY
Sep 26 2023

Sub-Team A Update

Prepare an assessment of current affordability challenges facing residential customers.

Task	Activities Completed
Analysis of demographics of residential customers	• Assessed demographics by race, age, income, housing type, heating source, family size, housing value, location
Household income-based estimations	• Segmented by household income for DEC, DEP, total
Analysis of trends and patterns	• Analyzed billing data and arrears by average energy usage, average bill, past due amounts, disconnect non-pay, energy intensity, and seasonal impacts across all demographics
On-going Analytics (in-progress)	• Identified additional areas to analyze including DNP notifications, electric burden, mobile homes • Developing statistical models to enhance the descriptive analytics
Assessment of Affordability Challenges	• Developed and socialized initial findings related to customer challenges • Awaiting final LIAC endorsement

Preview of Initial Findings

- 2% of customers are LIEAP/CIP customers, 15% of customers are estimated to be below 150% FPL, with another 11% between 150% and 200% FPL (28% total)
- Significant number of customers meet the "arrears definition"[1]
- Energy intensity (kWh/square foot) is a driving factor
- Seasonal energy intensity drives higher bills in the winter
- Racial disparities in arrears and disconnects for non-pay[2]

[1] *Arrears* is defined as two months spent at two times (2x) the average bill overdue *or* six months spent at one times (1x) the average bill overdue

[2] DEC/DEP applies NC Rule 12-11 consistently regardless of racial status

Subteam B

OFFICIAL COPY
Sep 26 2023

Progress To Date

Develop suggested metrics or definition for "affordability" and explore trends in affordability

Task	Activities Completed
Definition and application of "affordability" in other jurisdictions	• Analyzed existing programs and metrics used across other jurisdictions Identified existing utility and state programs designed to address affordability
Trends in affordability	• Engaged subject matter experts to brief subteam • Defined questions to be answered and conducted jurisdictional research
Criteria for determining affordability program eligibility	• Investigating affordability criteria used by state or utility programs to identify program administration alignment opportunities • Compiling findings into matrix for LIAC review
Suggested affordability metrics	• Currently exploring metrics for existing utility or state programs designed to address affordability
Documentation of findings underway and e*xpect to brief LIAC on affordability trends in March*	

Subteam 6
OFFICIAL COPY
Sep 26 2023

Progress To Date

Investigating existing customer offerings and practices, in addressing affordability

Task (Assessments)	Activities Completed
Income qualified program insights	• Overviewed existing income-qualified offerings − DEC/DEP EE programs (weatherization programs and pilots, Refrigerator Replacement, and Neighborhood Energy Saver program) − Assistance program (Share the Light) − Helping Home Fund Program • Compiled program-specific participation data requested by Commission
Affordability program effects on cost causation and allowance of cost among classes	• Overviewed rate design concepts including cost of service, cost causation and cost allowances
Appropriateness of implementation of specific rates (min bill, income-based rates, SSI-based rates, segmentation)	• Engaged rate design SMEs to provide rate design concept overview for subteam members and support associated analyses related to minimum bill vs fixed charge and segmentation by class • Overviewed income-based rates and discount programs, including: − DEC SSI discount program − Virginia's Proposed Percent of Income Payment Plan
Customer program proposals and recommendations	• Reviewed existing programs for subteam awareness; program proposal process developed, and proposals solicited (proposals requested no later than March)

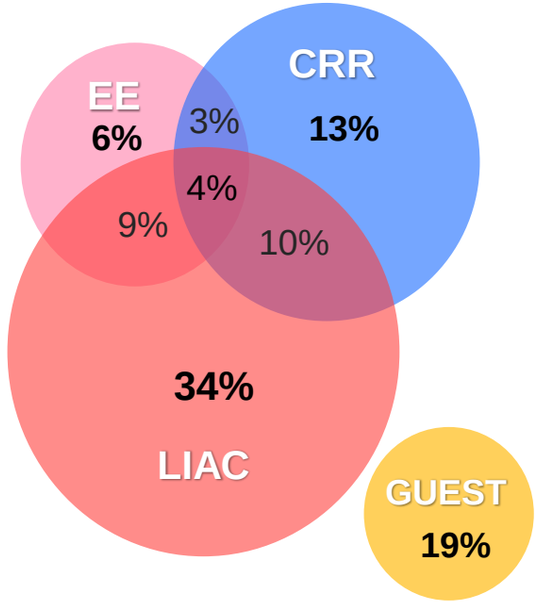
OFFICIAL COPY
Sep 26 2023

Key Subteam D Tasks

Consider ongoing work of the EE and CRR Collaboratives

Task	Activities Completed
Discussion of key areas of concern via Joint Meeting	• Held joint meeting of three collaboratives on 2/26; 147 participating, • Hosted four concurrent breakout sessions to discuss areas of intersection, gaps and opportunities
Consideration of ongoing EE and CRR Collaborative work	• Identified cross-collaborative participants and designated Utility, Public Staff and community/industry cross-collaborative liaisons • Standing agenda item added to regular LIAC sessions for sharing EE/DSM and CRR updates
Access to interim material produced by three collaboratives	• Leveraged cross-collaborative members to share EE/DSM program insights and rate design concepts • Shared customer demographic assessment data with EE/DSM and CRR collaboratives

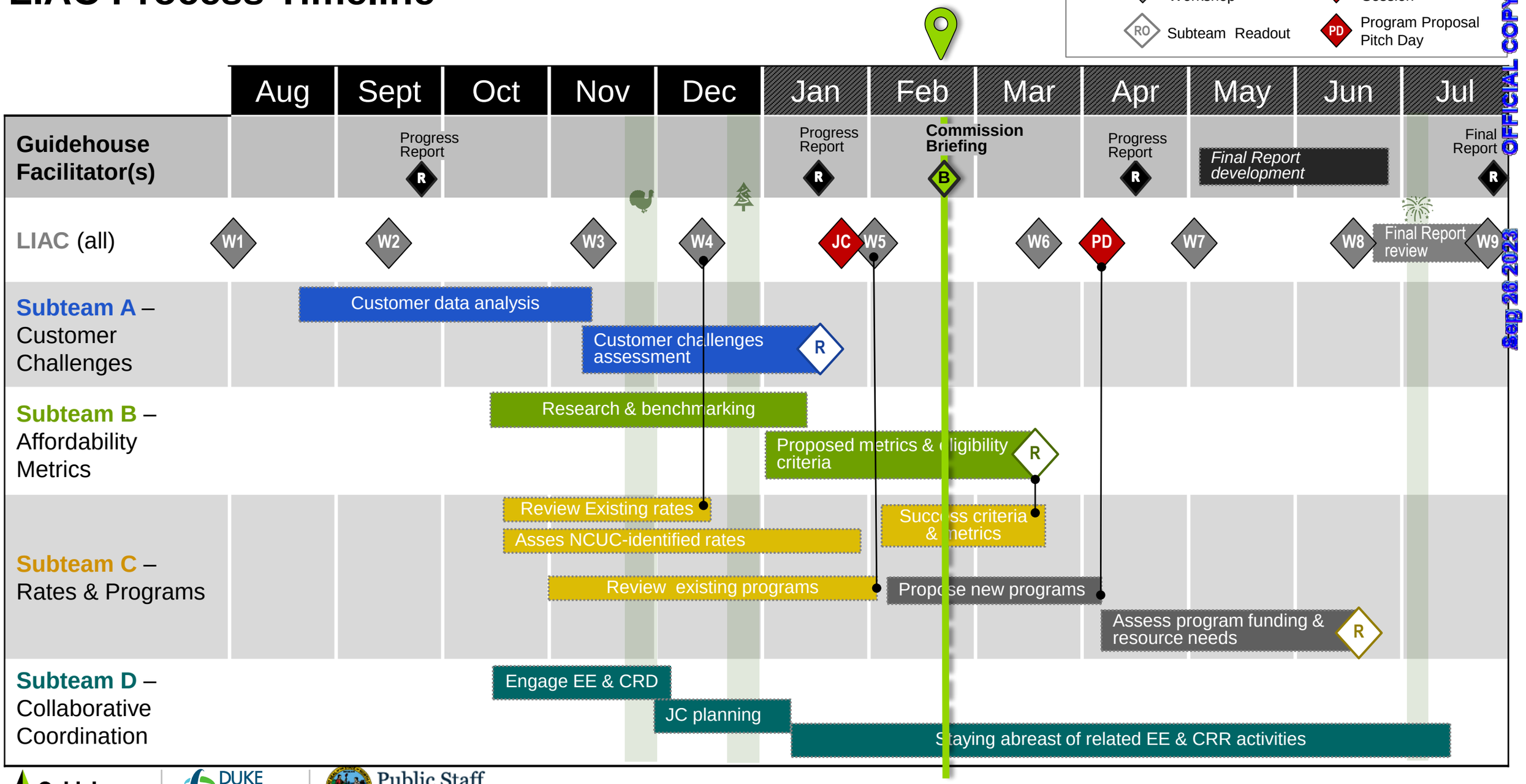
Joint Session Participation



LIAC/EE/CRR jointly identified:

- **36** distinct gaps and opportunity areas
- **19** distinct solution areas

LIAC Process Timeline



Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY

Sep 26 2023

APPENDIX B – LIAC

APPROVED STAKEHOLDER LIST
(ORGANIZATION LIST ONLY)

DOCKET NOS. E-7, SUB 1213; E-7, SUB 1214; E-7, SUB 1187; E-2, SUB 1219 AND E-2, SUB 1193

OFFICIAL COPY
Sep 26 2023

Appendix B - Low Income Affordability Collaborative Members

Organization
AARP
Advance Carolina
Apartment Association of NC
Appalachian Voices
Carolina Small Business Development Fund
ChargePoint
Charlotte Area Fund
Carolina Industrial Group For Fair Utility Rates
City of Raleigh
Crisis Assistance Ministry
Dominion Energy
Duke Energy
Guidehouse (Facilitator)
Legal Aid of NC
NAACP
National Institute Economic Development
NC Attorney General's Office
NC Community Action Association
NC Department of Environmental Quality
NC Dept of Health and Human Services
NC Housing Coalition
NC Justice Center
NC League of Municipalities
NC Office of Recovery & Resiliency
NC Sustainable Energy Association
NC Electric Membership Corporation
Nicholas Institute (Duke University)
Public Staff of the NC Utilities Commission
Rowan Helping Ministries
Sierra Club
Southeast Energy Efficiency Alliance
Southern Alliance for Clean Energy
Southern Environmental Law Center
Sunrun (South Carolina)
Vote Solar

OFFICIAL COPY

Sep 26 2023

APPENDIX C – LIAC

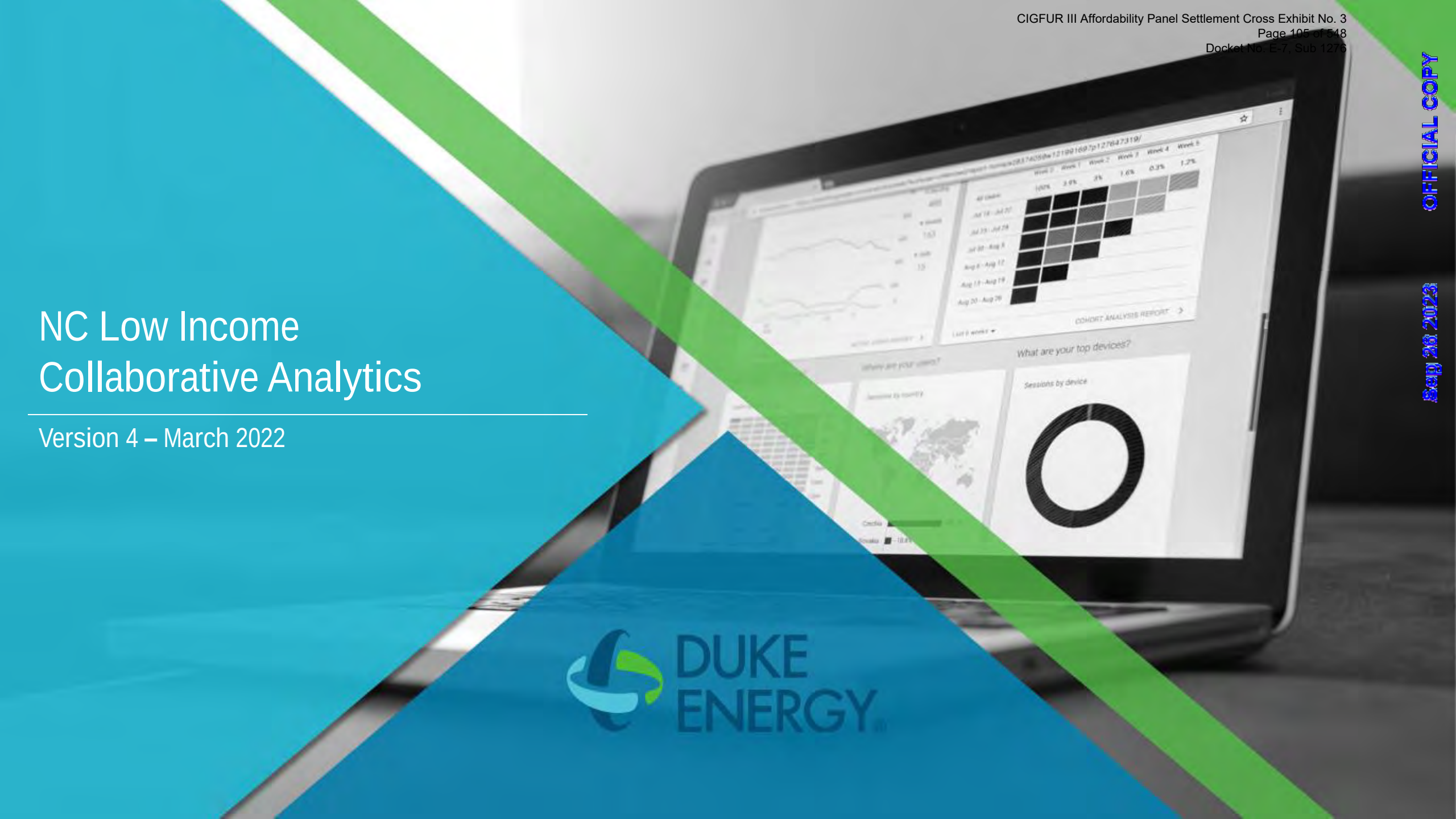
VERSION 4 ANALYTICS

DOCKET NOS. E-7, SUB 1213; E-7, SUB 1214; E-7, SUB 1187; E-2, SUB 1219 AND E-2, SUB 1193

OFFICIAL COPY
Sep 28 2023

NC Low Income Collaborative Analytics

Version 4 – March 2022



DUKE ENERGY

OFFICIAL COPY
Sep 26 2023

OVERALL GOAL

- Equip LIAC to **prepare an assessment** of current affordability challenges

  (using the data presented as key input into assessment)

LANGUAGE FROM THE COMMISSION ORDER

Prepare an **assessment of current affordability challenges** facing residential customers. The assessment should:

- Provide an **analysis of demographics of residential customers**, including number of members per household, types of households (single family or multi-family), the age and racial makeup of households, household income data, and other data that would describe the types of residential customers the Company now serves. To the extent demographics vary significantly across the Company's service area, provide additional analysis of these demographic clusters.
- **Estimate the number of customers** who live in households with incomes at or less than 150% of the federal poverty guidelines (FPG), and those whose incomes are at or less than 200% of the FPG.
- For the different demographic groups identified as part of a. and b., provide an **analysis of patterns and trends** concerning energy usage, disconnections for nonpayment, payment delinquency histories, and account write-offs due to uncollectability.

Scope of Analytics

OFFICIAL COPY
Sep 28 2023

Included in Analytics:

Per North Carolina Utilities Commission Order:

- Insights into customers under 150% and 200% federal poverty level (FPL)
- Demographics/housing including dwelling type, heating source, renter/owner, racial makeup, age of account holder and number of people in the household
- Trends in delinquency, write-offs, disconnect non-pay (DNP) and energy usage

Per LIAC Members Request:

- Advanced Metering Infrastructure (AMI) Load Shapes
- Additional Insights into Acxiom Data
- Tables including relative information for information detailed in graphs
- More insight into energy intensity
- Electric Energy Burden (New in V4)
- Sub-Category Housing (New in V4)
- Statistical Modeling (New in V4)
- Analysis of DNP Notifications (New in V4)

Other:

- Low Income Energy Assistance Program and Crisis Intervention Program (LIEAP/CIP) recipients as their own segment

Updates to Final Analysis:

- Previous analysis had incomplete DNP data due to data retention policies in historic billing systems, which have since been resolved. As a result of the revisions, the DNP numbers have increased
- Refinements to the Companies' analytics allowed for more accurate segmentation of customers, leading to minor changes in insights on affordability challenges

This Analysis Utilizes the Data Sources Available

OFFICIAL COPY
Sep 28 2023

- Acxiom (3rd party provider for demographic information) has been verified as useful and reasonably accurate over large data sets, like the ones included in this presentation
  - Correlates with Census data and billing system
  - Correlates when compared with the Company employee checks on personal information (on subset of variables)
  - Primary use case is for marketing
- A great number of external data sources could theoretically be used for this analysis
  - To acquire individual customer-level data requires careful adherence to customer privacy laws and practices
  - Transferring, cleaning, verifying, and analyzing any new data sources on every North Carolina customer would take months
  - The Companies will continue to investigate additional data sources as necessary
- To supplement and validate research into low-income customers the North Carolina Department of Health and Human Services and the Companies entered in a data share agreement permitting the Companies to perform analysis on DEC and DEP customers identified as LIEAP and CIP recipients
- LIEAP & CIP programs are intended to help low-income families who need assistance during an energy crisis to ensure they have access to both heating and cooling services
- The Companies were provided ~53k customers (active as of 2021)
  - LIEAP Qualifications: Less than 130% FPL and reserves at or below $2,250
  - CIP Qualifications: Less than 150% FPL and in an energy crisis

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Acxiom Data Process

OFFICIAL COPY
Sep 28 2023

Collect information at a household level

Public data, buying activity, online registrations, magazine subscriptions, survey data, warranty information, etc.

Model missing data

Uses other known variables of customers and information at the zip+4 and zip level using their proprietary model

Race: surname, language preference, geography, country of origin, etc.

Income: age, occupation, home ownership, and median income for the local area

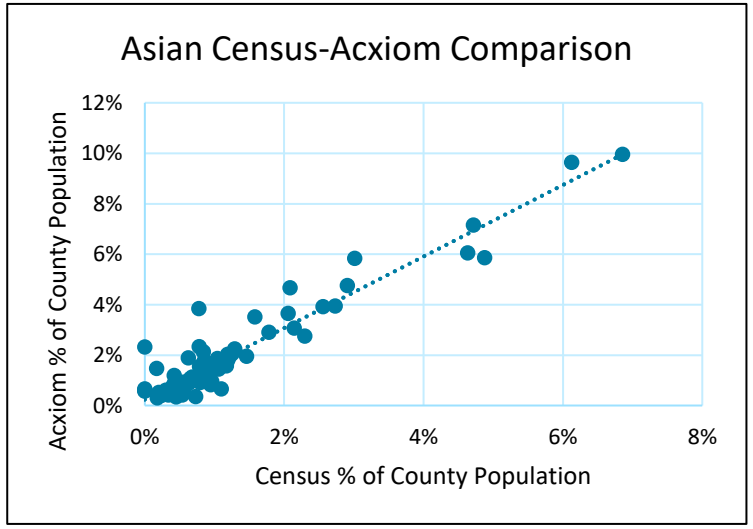
Optimize to resemble US Census norms at the highest accuracy rate possible

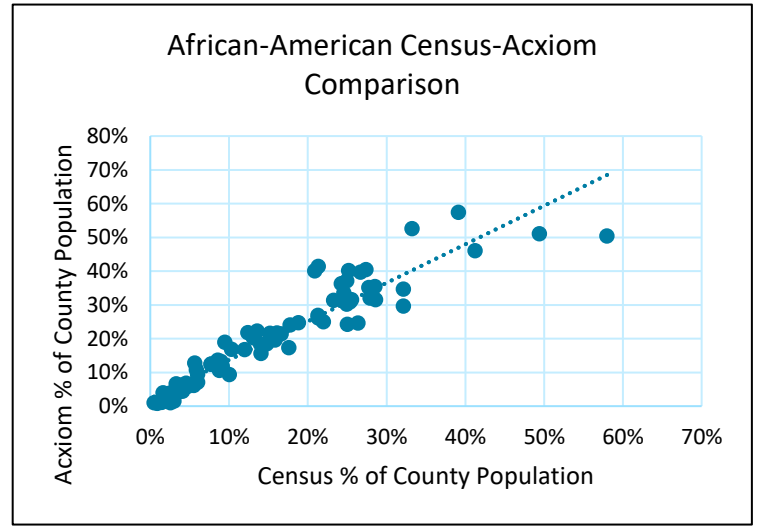
Balancing happens at a state level for most variables

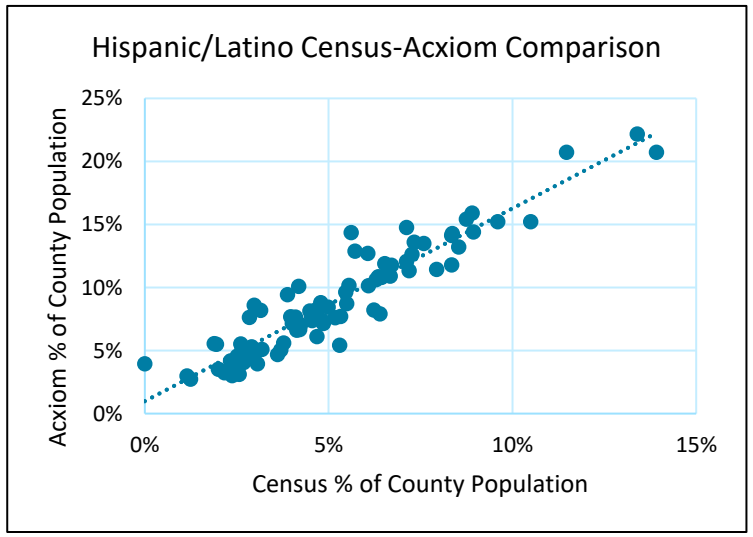
Census-Acxiom Race Count Comparisons

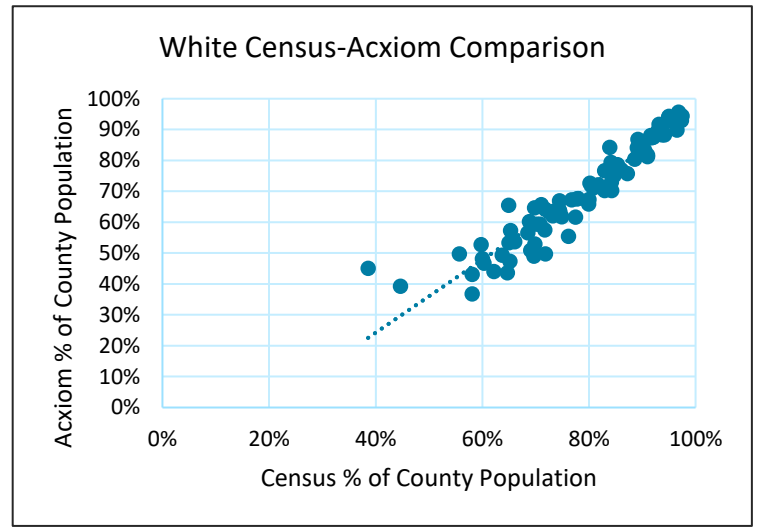
OFFICIAL COPY
Sep 28 2023

- Acxiom and Census results are similar when comparing counties by the racial makeups
- Acxiom slightly overestimates Hispanic/Latino, African-American, and Asian populations compared to the Census, while underestimating White population
- Acxiom data is at the DEC an DEP account level, which could explain the slight disparities
  - This count only includes one adult per household
  - This would not include households not served by the Companies









Hispanic/Latino were consolidated in the Census and Acxiom

Census-Acxiom FPL Comparisons

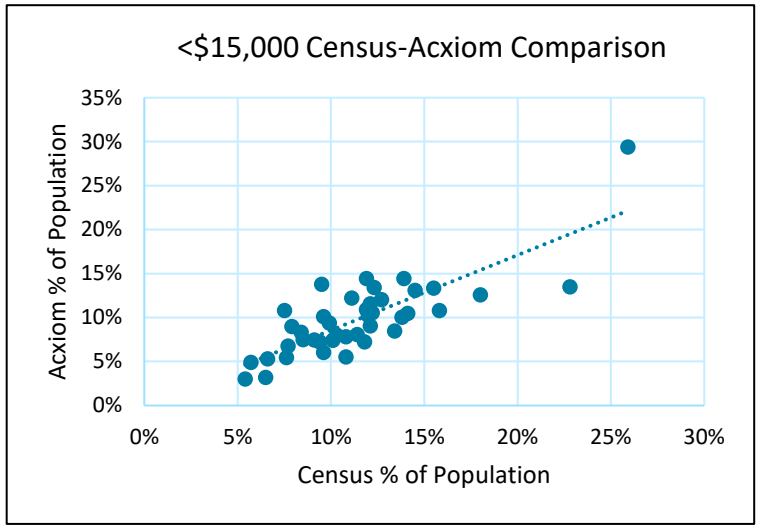
OFFICIAL COPY
Sep 28 2023

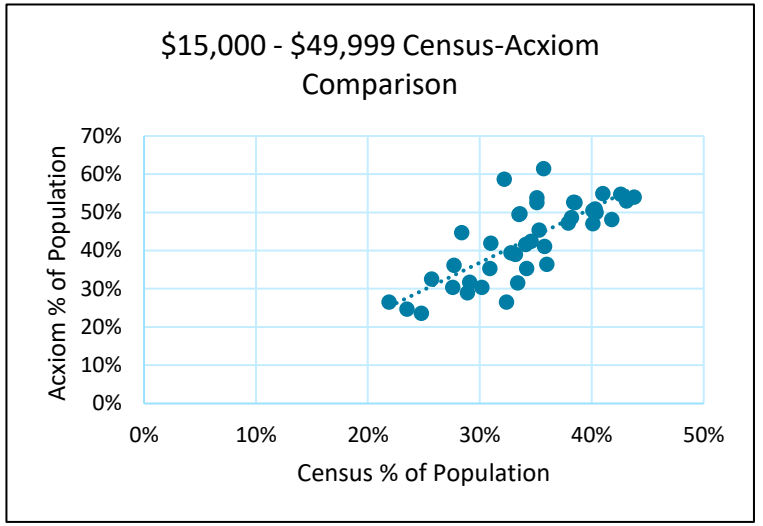
- Acxiom and Census results are similar when comparing counties by the income levels
- Acxiom slightly overestimates lower incomes compared to the Census, while underestimating higher incomes

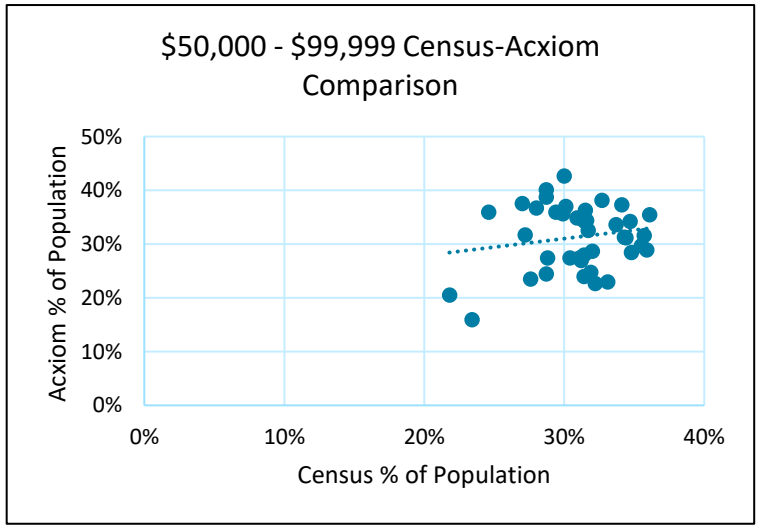
Acxiom Modeling Results

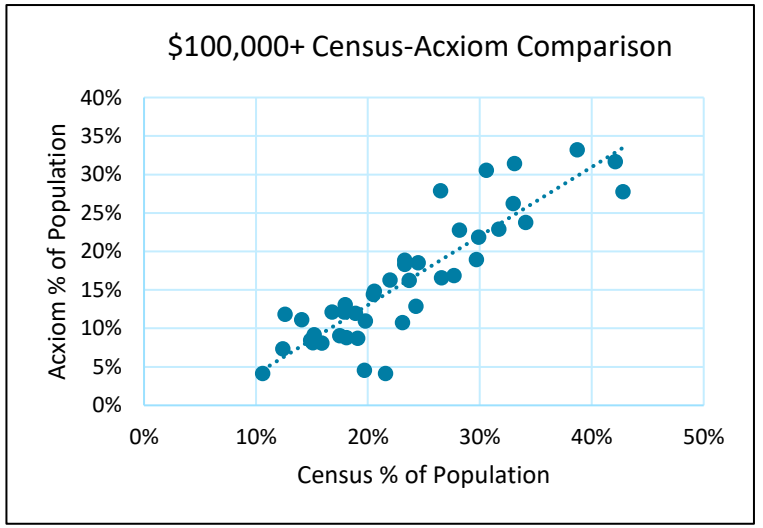
Data Source	<150%	150% to 200%	>200%
Household/ Household Inferred	88.0%	88.0%	94.5%
Zip code+4	10.4%	8.0%	3.8%
Zip code	1.6%	4.0%	1.7%

Includes Income & number of people in household









OFFICIAL COPY
Sep 28 2023

Overview of Data Analysis Conducted

Assessing Customer Demographics: By Income Level

OFFICIAL COPY
Sep 28 2023

- The Federal Poverty Level ("FPL") is a measure of income **per household size**
- *Relationship of Household Income to FPL* is a common way to classify by income
- Shortfalls of using this metric only:
  - Indicator lags up to a year
  - Does not capture recent changes to status (e.g., job loss, family catastrophe, etc.)
  - Does not account for those with high access to economic resources (i.e., wealthy with low or no reportable income)

150% of Federal Poverty Level

Household Size	Maximum Countable Annual Income
1	$19,320
2	$26,130
3	$32,940
4	$39,750
5	$46,560
6	$53,370
7	$60,180
8	$66,990

2021 FPL Guidelines
Poverty Guidelines, 48 Contiguous States (all states except AK and HI) (hhs.gov)

Assessing Customer Demographics: By Arrears

OFFICIAL COPY
Sep 28 2023

Arrears: Money that is past due

Intended to supplement, not replace, other measures of struggling customers

Intended for analytical purposes

1. **Direct measure** of how much customers are struggling to pay their bills
2. Should identify low economic resource customers that could be **struggling for many reasons**, not only low-income
3. **High quality data source**, updated monthly

Assessing Customer Demographics: Income Level + Account Status

OFFICIAL COPY
Sep 28 2023

- Requires 3rd party survey data (impacting data accuracy)
- Requires 3rd party verification for program eligibility use
- Not a good indicator of access to economic resources

Income (FPL)

- ✓ Industry Standard Metric
- ✓ Despite drawbacks is believed to be a good metric

- Does not reflect level of high energy burden
- Does not alone capture low-income population

Payment Status (Arrears)

- ✓ Analyzes customers struggling to keep the lights on
- ✓ Readily accessible, high-quality data

APPROACH:
Combining Income + Payment Status

- **Good data:** accessible, higher-quality
- **Good for targeting:** identifies those struggling with energy affordability; identifies those with high energy burdens

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Analysis Approach

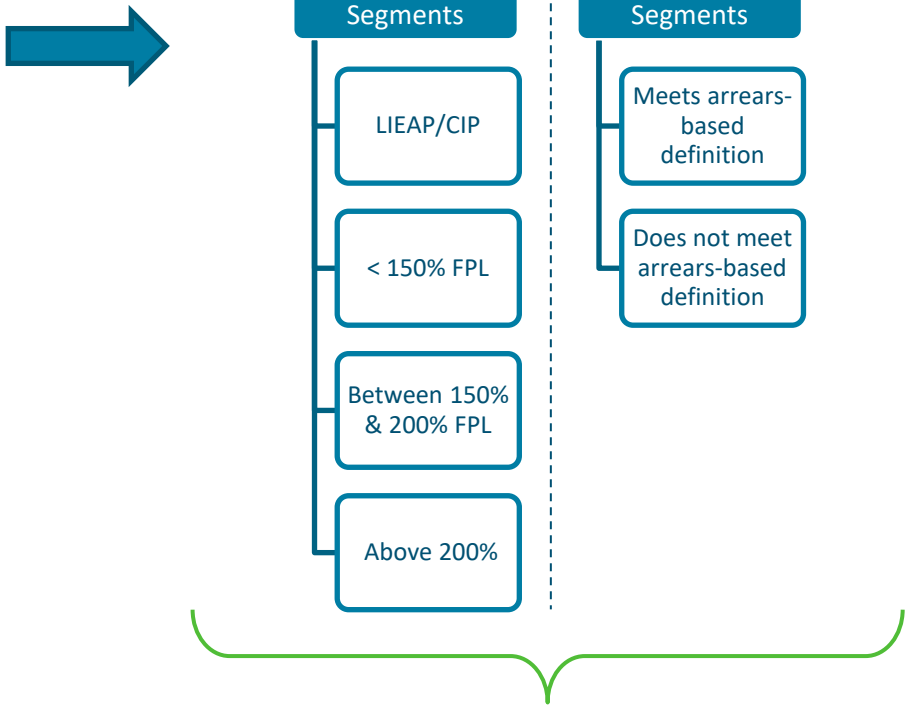
OFFICIAL COPY
Sep 28 2023

Third Party Data

- Demographics (income range, number of people in household, etc.)
- Housing data (housing type, square footage, owner/renter, etc.)
- The Companies choice of demographic data, updated quarterly
- Uses aggregated public data on individuals or zip code averages
- Directionally valid, not to be used for eligibility
- LIEAP/CIP data quality believe to be excellent*

**LIEAP/CIP data is for information received in 2021, after the study time period*

DATASET:
North Carolina (DEC & DEP)
Pre-COVID data (3/2019-2/2020):
2.37 million residential accounts
Customers who were active for the full time period



Company Billing Data

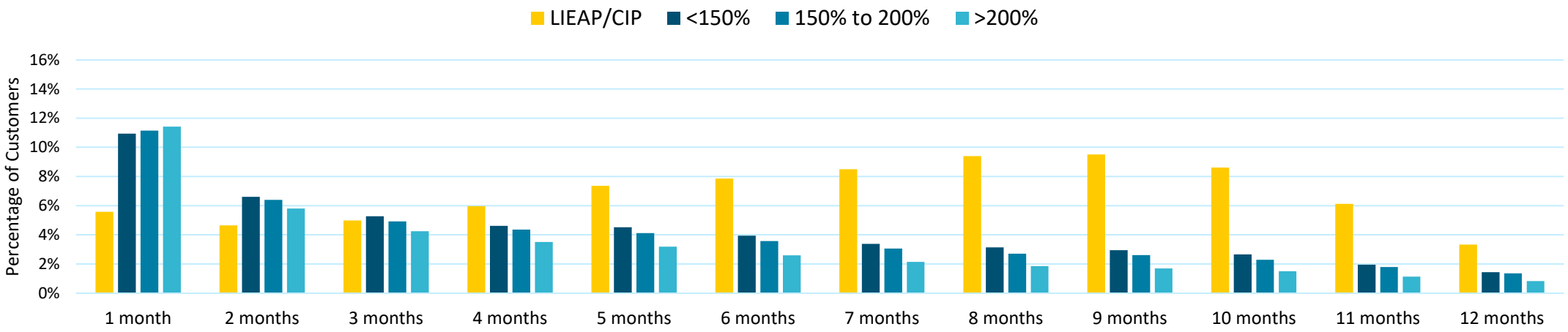
- Billing and charges data (charges, past due amounts, disconnects)
- Customer Data (location, heating type, age, etc.)
- High quality, updated monthly, unique to the Companies data source

By considering income and arrearage status the Companies can better identify customers who may truly be struggling to afford their energy bills

Trends in Arrears

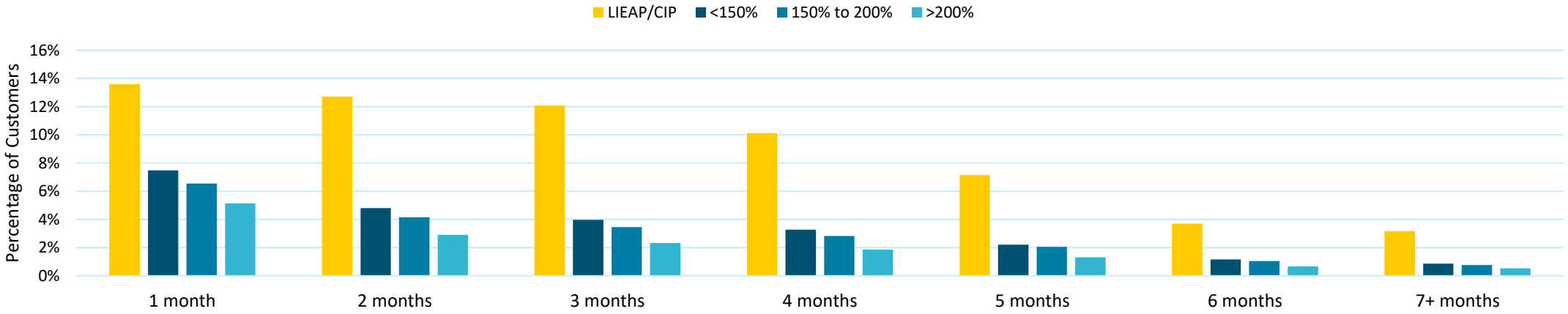
OFFICIAL COPY
Sep 28 2023

Months Spent with Past Due Amount 1x Average Bill



*Numbers are mutually exclusive

Months Spent with Past Due Amount 2x Average Bill



*Numbers are mutually exclusive

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Drawing the Line for Defining which Customers are Struggling with Arrears

OFFICIAL COPY
Sep 28 2023

EXPECTATIONS (HYPOTHESIS):

- LIEAP/CIP recipients are more likely to struggle to stay current on their bill – must have low financial reserves or be in an energy crisis in addition to being low-income
- Not all struggling/vulnerable/low-income customers will struggle with arrears (as some simply prioritize electricity bill over other expenses and others receive assistance)
- Some customers above 200% FPL struggle to pay their bill
- Some customers will miss payments for non-financial reasons

Evaluated metrics to arrive at a definition of customers struggling with arrears:

- High % of customers below 200% FPL
- High % of LIEAP/CIP recipients
- Low % of Customers above 200% FPL
- Reasonable total % of the population

	% of Customer that meet Arrears Definition				
Arrears Segmentation for Analytics	**Customers LIEAP/CIP**	**Customers <150% FPL**	**Customers 150-200% FPL**	**Customers >200% FPL**	**Total Customer Population**
2 Months spent at 2x average bill overdue OR 6 Months spent at 1x average bill overdue	58%	22%	19%	13%	16%

Definition not used to define affordability or eligibility for different programs

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Definitions of V4 Additions

OFFICIAL COPY
Sep 28 2023

- Home Sub-Categories
  - Multi-Family Dwelling – Condo, Apartments, Duplex, Triplex, Quadplex, etc.
  - Mobile Home
  - Single Family Dwelling
  - Unknown

- DNP Notifications
  - No Delinquency Notice (DLQ) – no delinquency notifications issued
  - 10-Day Notice – notified on bill or at least 10 days before scheduled disconnection
  - 24-Hour Notice – at least 24 hours prior to scheduled disconnection
  - DNP – customer was disconnected

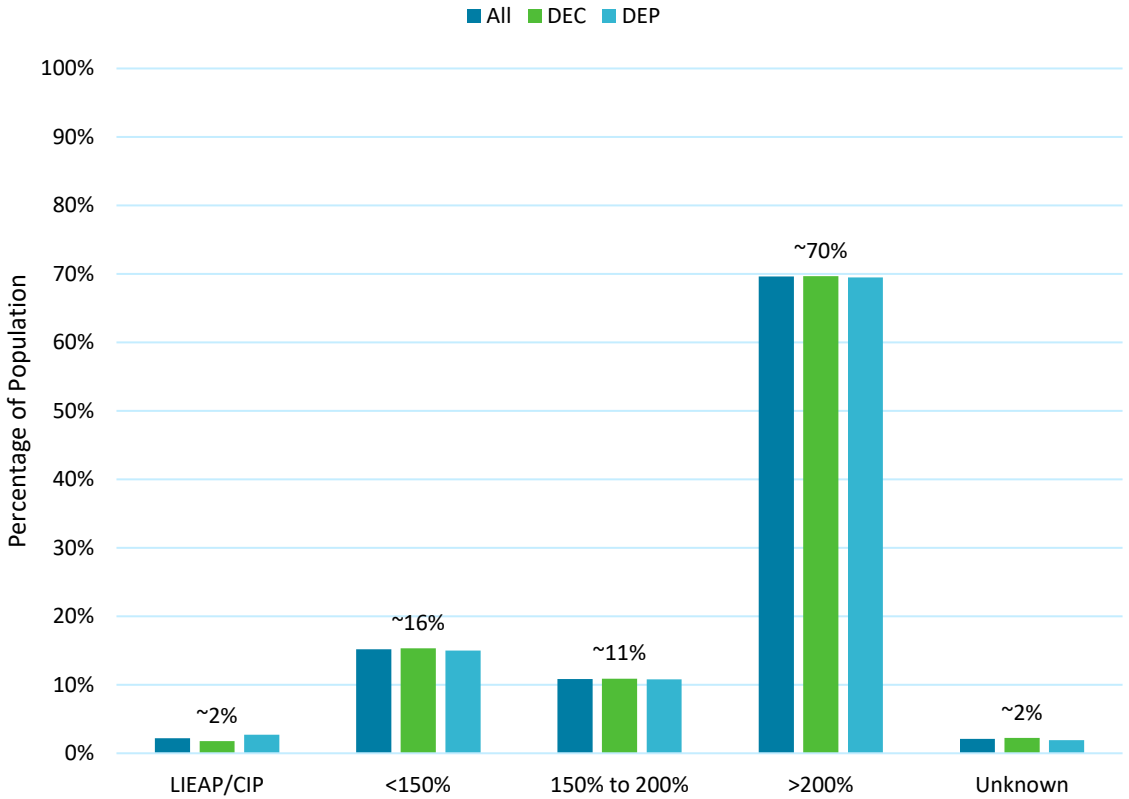
OFFICIAL COPY
Sep 28 2023

Analysis of NC Customers

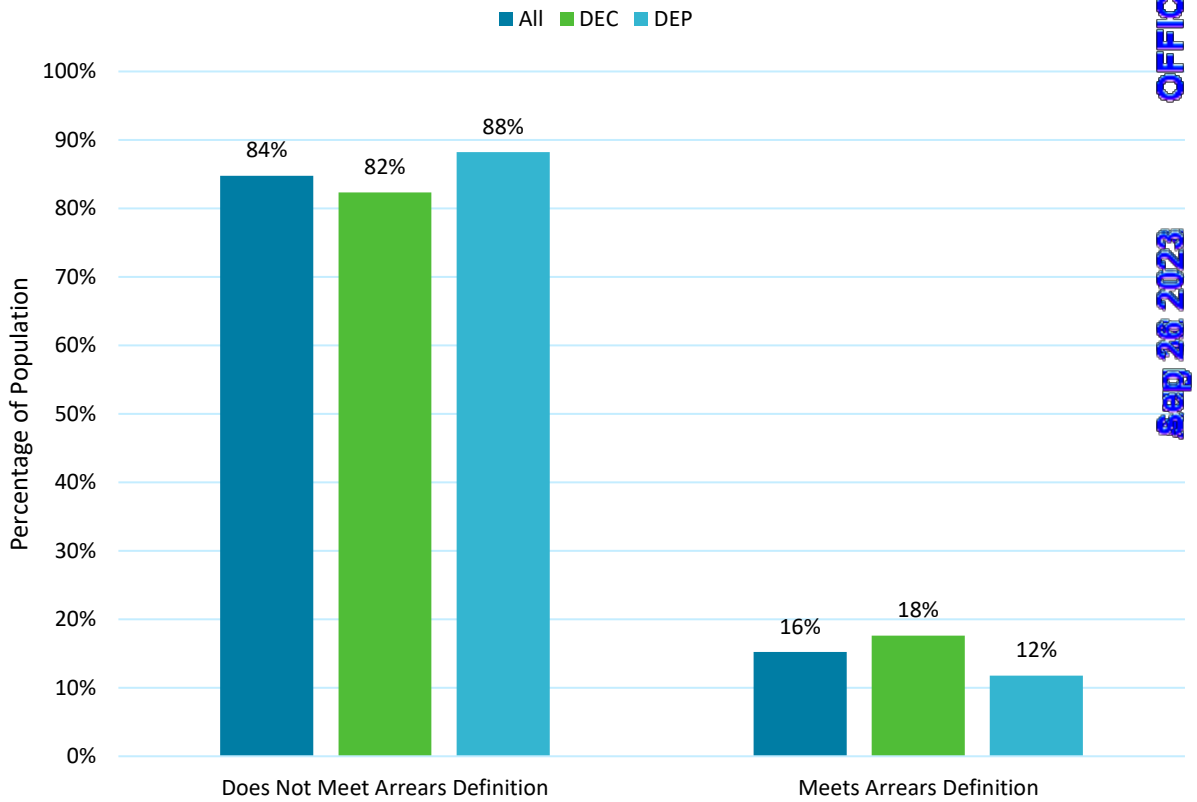
Segmenting by Income and Arrears in North Carolina

OFFICIAL COPY
Sep 28 2023

Segmentation by Income



Segmentation by Arrears

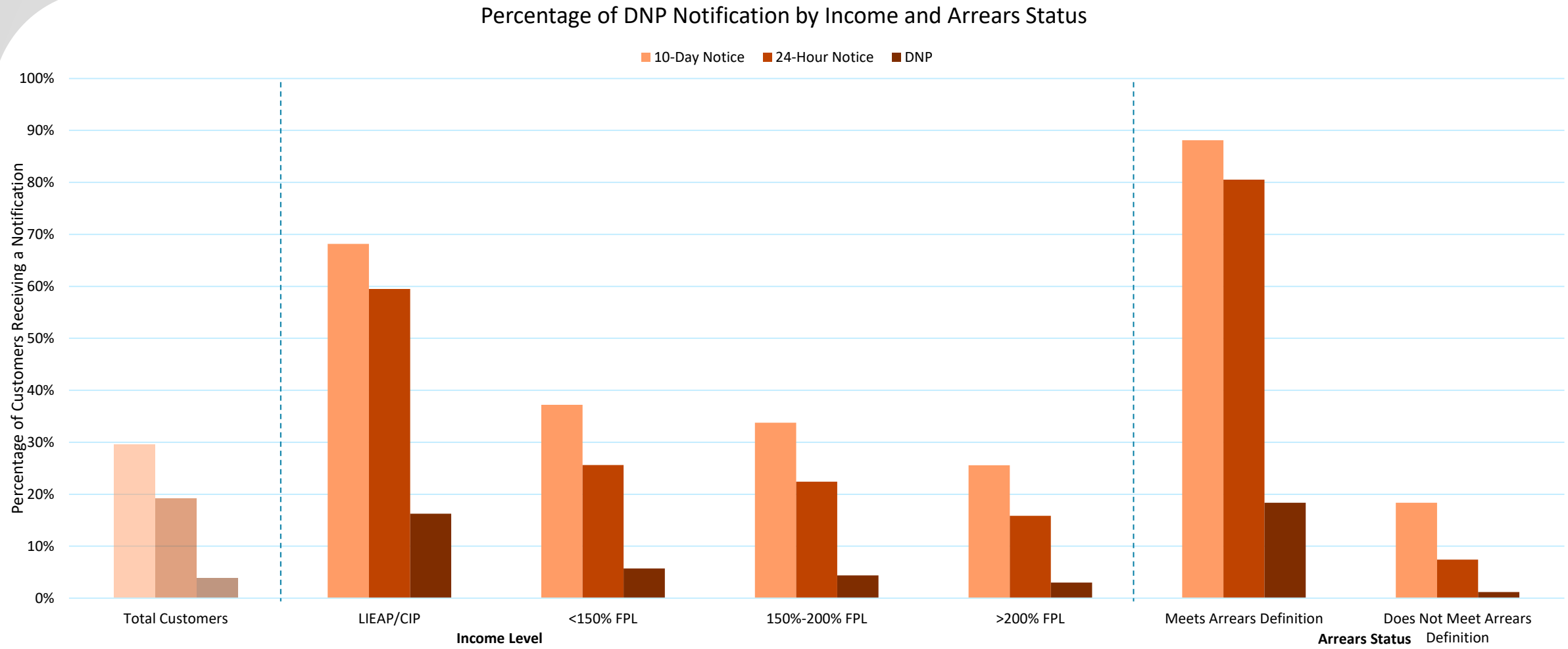


Recovered additional historic Acxiom data from this time period to decrease the amount of Unknown from version 1

- Some customers did not have income information in the third-party data
- No major differences between DEC and DEP customers

Percentage of DNP Notifications by Notification Type for Income and Arrears Status

OFFICIAL COPY
Sep 28 2023



	Total Customers	LIEAP/CIP	<150% FPL	150%-200% FPL	>200% FPL	Meets Arrears Definition	Does Not Meet Arrears Definition
% Total Customers in Category*	98%	2%	16%	11%	69%	16%	84%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

DNP Notifications

OFFICIAL COPY
Sep 28 2023

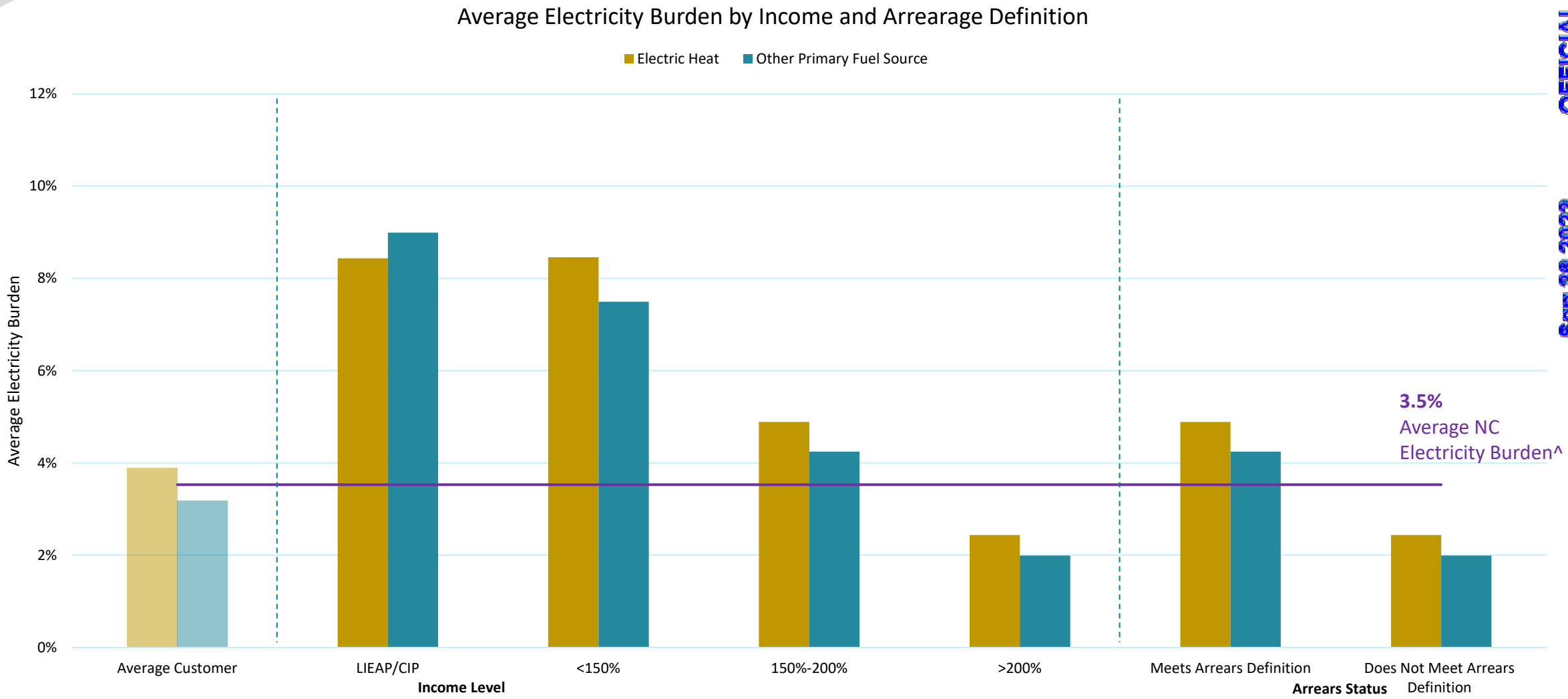
Total Numbers	LIEAP/CIP	<150% FPL	150%-200% FPL	>200% FPL	Meets Arrears Definition	Does Not Meet Arrears Definition
Non-DNP/DLQ	17,055	241,982	179,776	1,277,639	49,069	1,716,146
10-Day Notice	36,540	143,355	91,656	439,317	346,138	373,678
24-Hour Notice	31,889	98,741	60,834	272,154	316,454	150,676
DNP	8,714	22,109	11,940	51,817	72,144	23,876

Percentage of Customers in that Segment Received a DNP Notification (i.e., Percentage of <150% FPL customers that received a 10-Day Notice)	LIEAP/CIP	<150% FPL	150%-200% FPL	>200% FPL	Meets Arrears Definition	Does Not Meet Arrears Definition
Non-DNP/DLQ	31.8%	62.8%	66.2%	74.4%	12.5%	84.4%
10-Day Notice	68.2%	37.2%	33.8%	25.6%	88.1%	18.4%
24-Hour Notice	59.5%	25.6%	22.4%	15.9%	80.6%	7.4%
DNP	16.3%	5.7%	4.4%	3.0%	18.4%	1.2%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Average Electricity Burden Income and Arrearage Definition

OFFICIAL COPY
Sep 28 2023



% Total Customers in Category*	79%	2%	16%	11%	69%	16%	84%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The total line includes customers who could not be categorized, therefore there may be instances of all groups above the total

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Electricity Burden

OFFICIAL COPY
Sep 28 2023

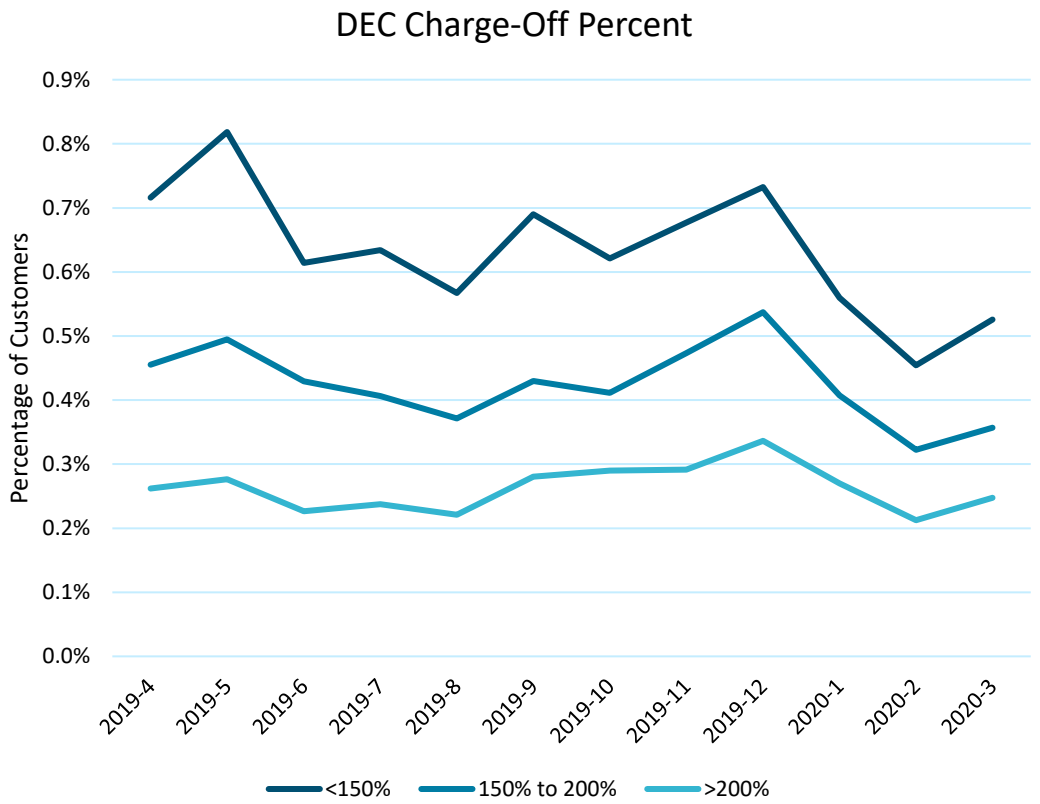
Total Numbers	LIEAP/CIP	<150%	150%-200%	>200%	Meets Arrears Definition	Does Not Meet Arrears Definition
Electric Heat	31,304	137,087	103,872	606,039	147,315	731,760
Other Primary Fuel Sources	19,036	160,977	115,362	786,280	152,792	931,129

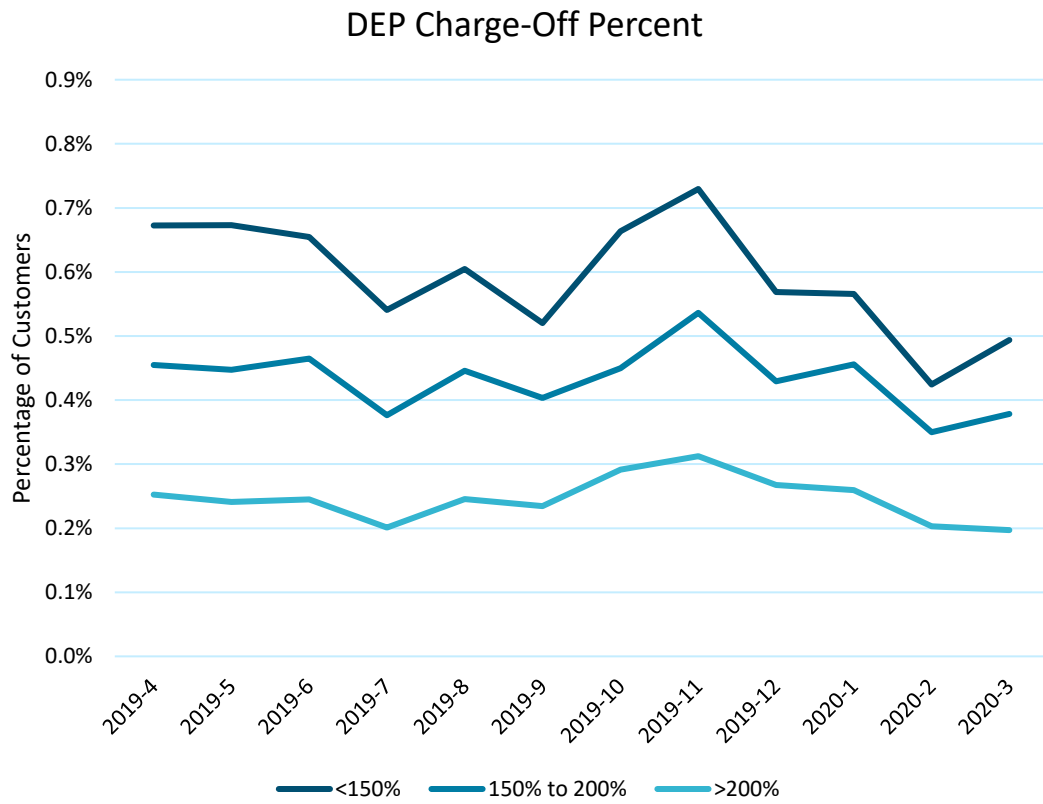
Percentage of Customers in each Segment	LIEAP/CIP	<150%	150%-200%	>200%	Meets Arrears Definition	Does Not Meet Arrears Definition
Electric Heat	1.3%	5.5%	4.2%	24.4%	5.9%	29.4%
Other Primary Fuel Sources	0.8%	6.5%	4.6%	31.6%	6.1%	37.5%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Charge-Offs

OFFICIAL COPY
Sep 28 2023





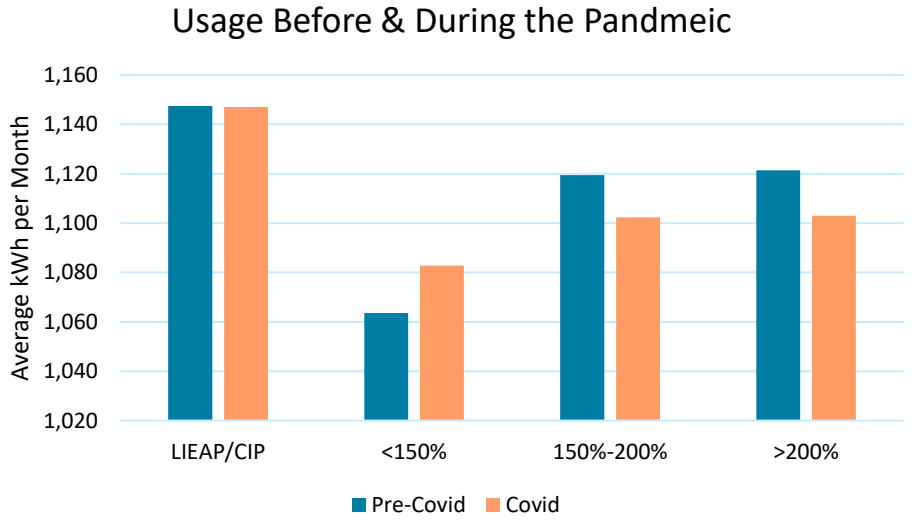
# of customers charged off in that month / (# of active customers in that month + customers charged off)

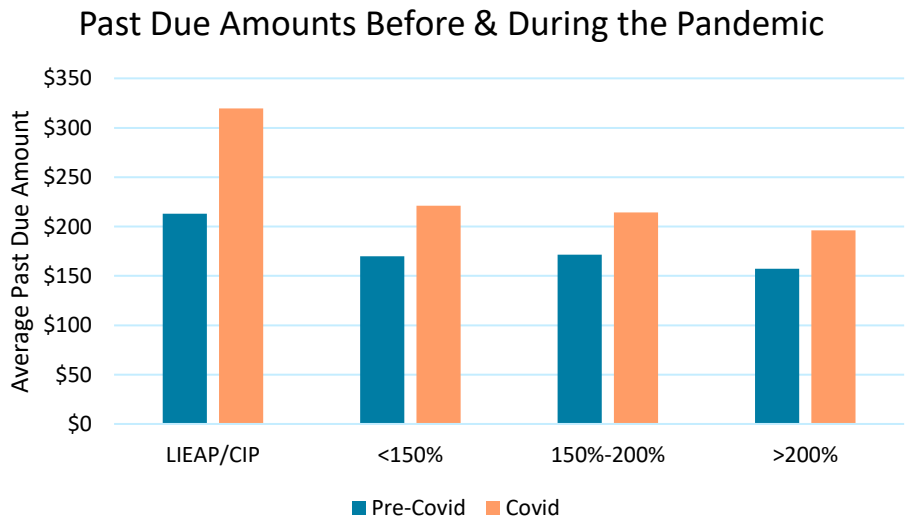
- Charge-off is for customers who closed their account but still owed money and ended up in collection
- This population is on customers who closed their account during this time period, while the rest of the analysis is based on a population that was active the entire time period
- Charge-off customers were all closed by March 1, 2020, and the LIEAP/CIP list is from 2021

Data Shows Limited Impact of the Pandemic on Key Metrics

OFFICIAL COPY
Sep 28 2023

- Usage did not meaningfully change for residential customers
  - Affected by weather in addition to changes in customers' consumption habits
  - Consistent with Load Research data and similar to other Southeast utilities
- Past due amounts (i.e., arrears) grew significantly for LIEAP/CIP customers and slightly for other customers.
  - The disconnection moratorium likely affected payment behaviors for some customers





The COVID period was from 3/2020-2/2021, and includes customers that were active the full 12 months

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

OFFICIAL COPY
Sep 28 2023

Statistical Analysis

Data Available for Modeling

OFFICIAL COPY
Sep 28 2023

Numerical Attributes in the Model

- Customer Home Value ($)
- Energy Burden
- Summer Load Impact
  - Calculated by subtracting the highest summer monthly load by the average monthly load
  - Represents additional load from summer conditions
- Winter Load Impact
  - Calculated by subtracting the highest winter monthly load by the average monthly load
  - Represents additional load from winter conditions
- Interacted with heat source (electric or other primary fuel source)
- Age of Account Holder
- Age of Home

Categorical Attributes in the Model

- Race: African-American, Asian, Hispanic, or White
- Household Size: Breakdown by number of people in the household, and if there are children
- Population Density: A measure of people per square mile
- Heat Source: Electric or other primary fuel source
- Housing Status & Type: Owner or renter, single family or multifamily, further broken down by condo, apartment, mobile home, etc.
- Education: High school, college, or graduate school

Variables are transformed to better capture non-linear relationships

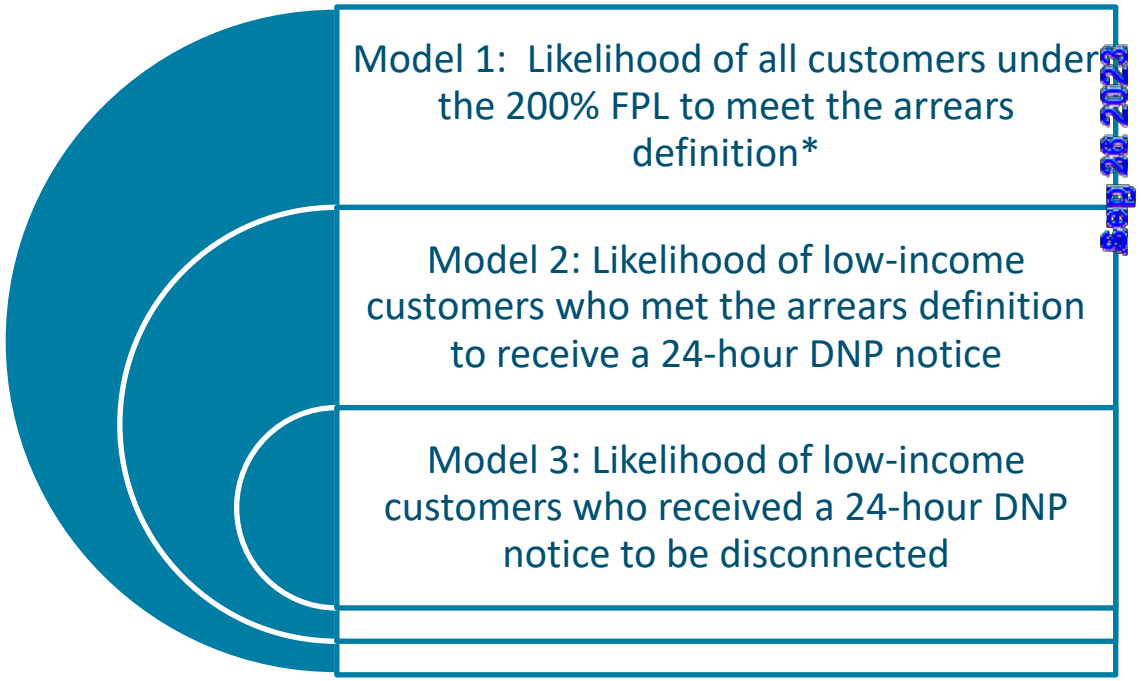
- Categorical attributes were included in the model as 1/0 indicator variables
- Some numerical attributes were log-transformed
- Other numerical attributes were treated as piecewise-linear, such that the effect of the attribute on arrears is more dynamic as that attribute changes
- Some attributes were interacted with other attributes
- For example, other primary fuel source customers winter load was treated as a separate variable from electric customer winter load

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Understanding Model Results

OFFICIAL COPY
Sep 26 2023

- In order to enhance the descriptive analytics and better understand what is driving customers to incur an arrears or experience disconnected for non-pay, the collaborative agreed on creating statistical models
- Three logistic regression models were created to understand low-income customers (< 200% FPL) who meet the arrears definition, receive a 24-hour notice, and ultimately become disconnected for non-pay
- Comparing model effect sizes shows which attributes were more impactful (i.e., age vs race), as well as the likelihood of each segment within the attribute (i.e., 25-year-olds vs 55-year-olds)
  - This allows an understanding of the impact of each individual variable, holding all other variables constant that are in the model
  - Some key data points, like wealth, were not available and may show up in other variables that are correlated
- The "Wald Test" shows which categories have a statistically significant impact on a customer's ability to pay their bills
  - For categorical attributes like race, a p-value less than 0.05 indicates that the category's effect is significantly different from the baseline category's effect
  - For numerical attributes like age, a p-value less than 0.05 indicates that the attribute's effect is significantly different from 0



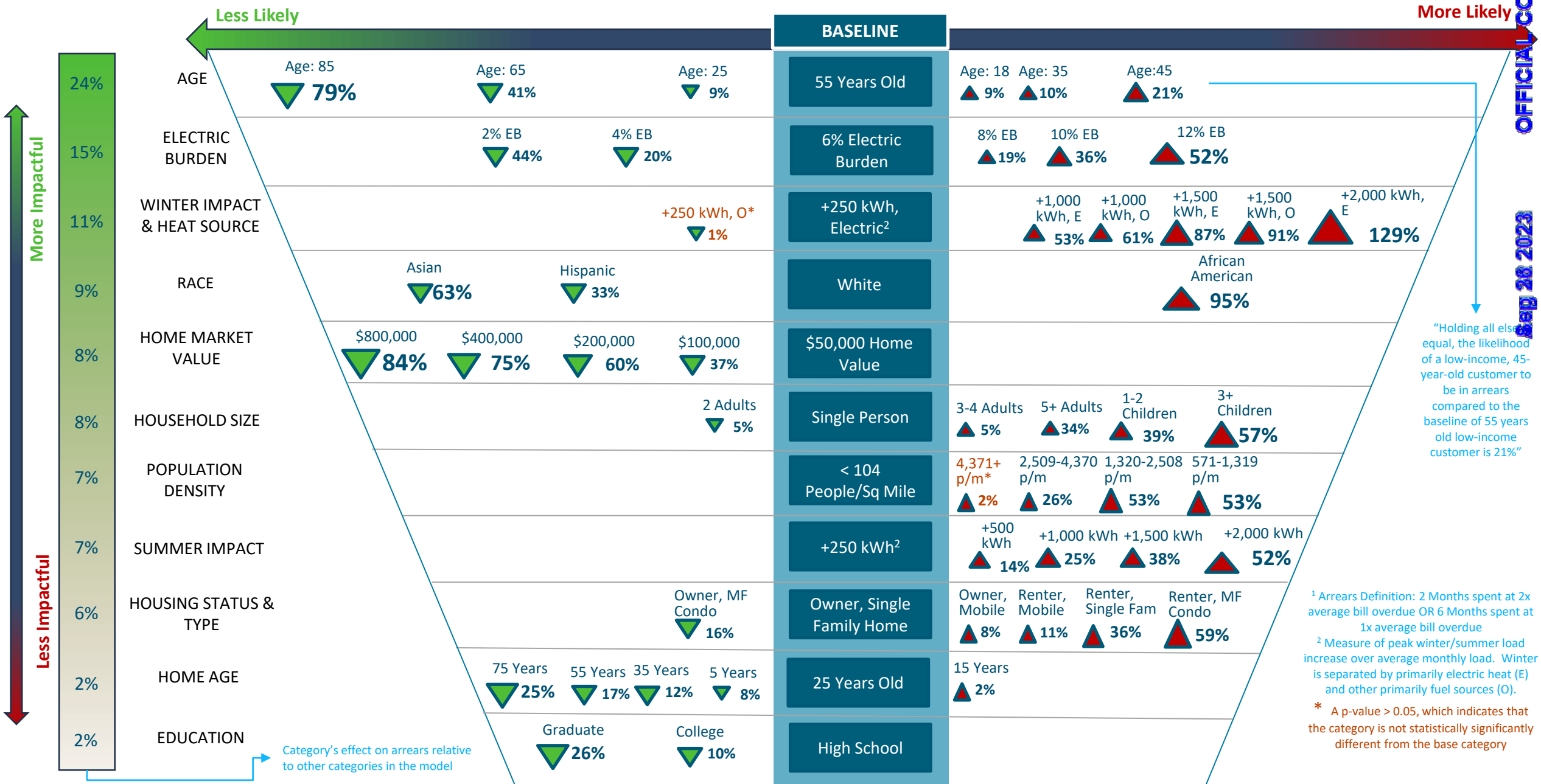
*~10% of the population received a 24-hour notice without meeting the arrears definition, but were still included in the first model as "meeting arrears definition"

DUKE ENERGY

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Statistical Modeling: Arrears Definition[1]

OFFICIAL COPY
Sep 28 2023



"Holding all else equal, the likelihood of a low-income, 45-year-old customer to be in arrears compared to the baseline of 55 years old low-income customer is 21%"

Category's effect on arrears relative to other categories in the model

[1] Arrears Definition: 2 Months spent at 2x average bill overdue OR 6 Months spent at 1x average bill overdue

[2] Measure of peak winter/summer load increase over average monthly load. Winter is separated by primarily electric heat (E) and other primarily fuel sources (O).

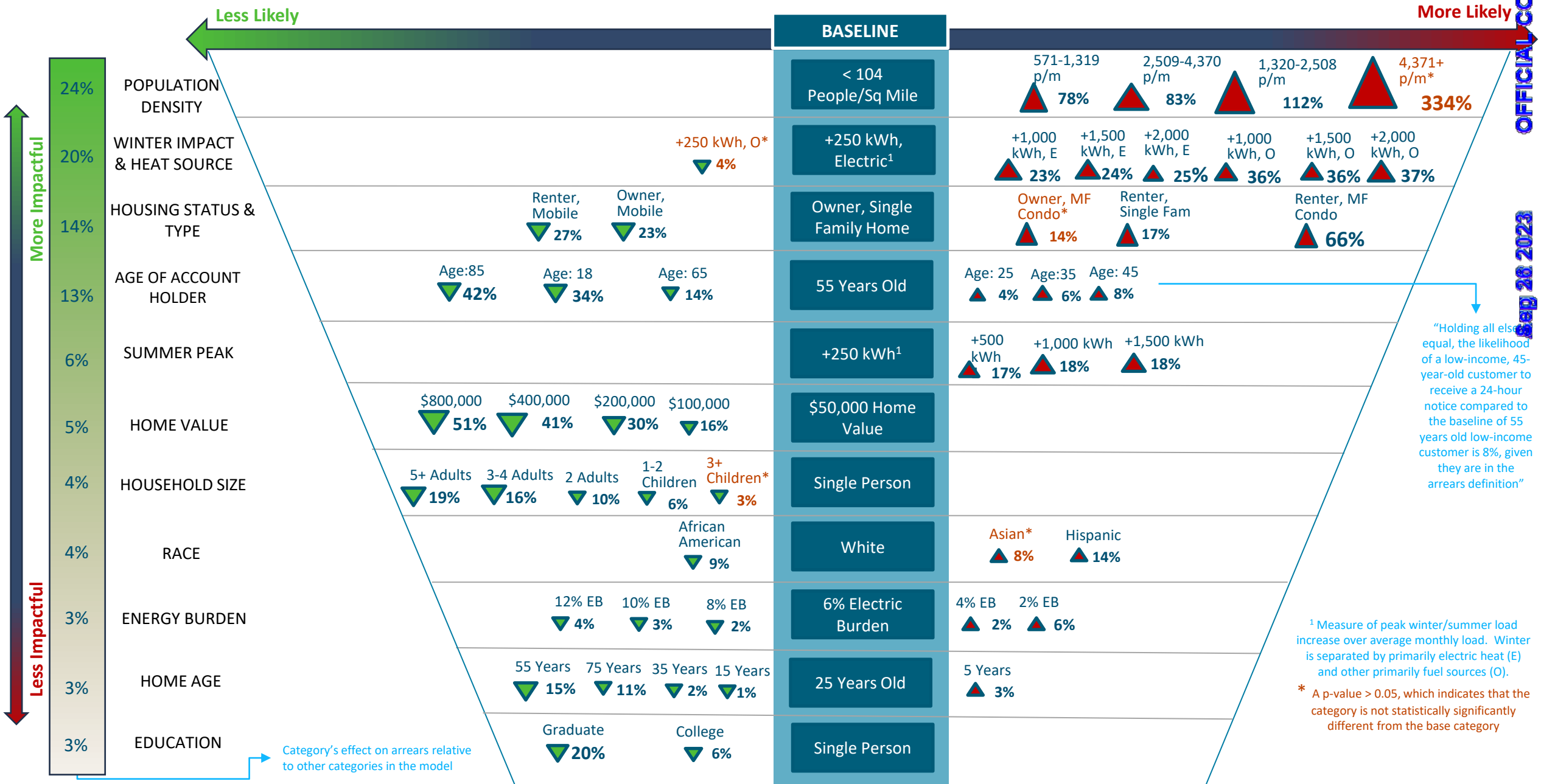
* A p-value > 0.05, which indicates that the category is not statistically significantly different from the base category

DUKE ENERGY

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Statistical Modeling: 24-Hour DNP Notice

OFFICIAL COPY
Sep 28 2023

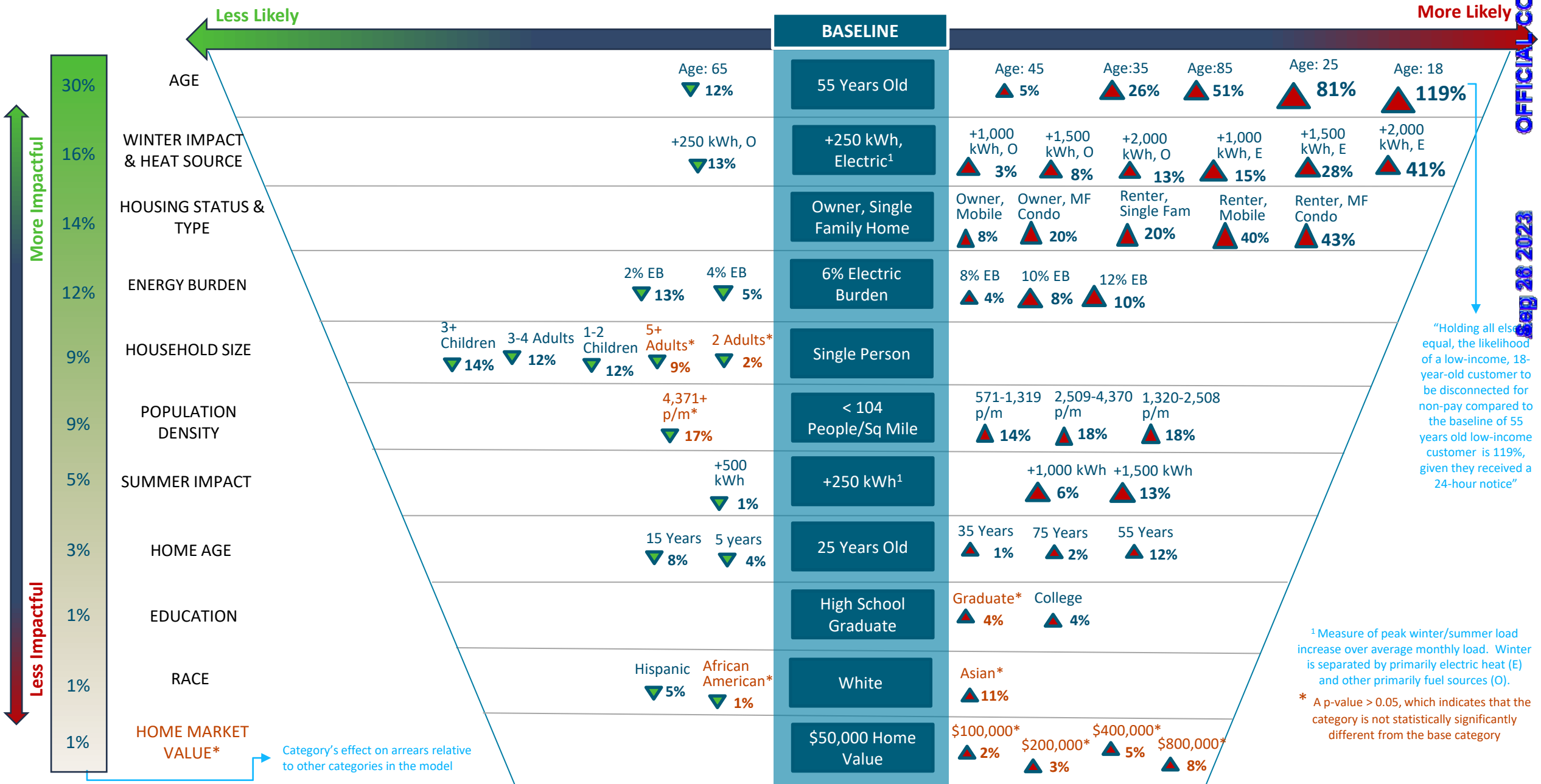


DUKE ENERGY

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Statistical Modeling: DNP

OFFICIAL COPY
Sep 26 2023



OFFICIAL COPY

Sep 28 2023

Analysis by Housing Type, Housing Status, and Heating Source

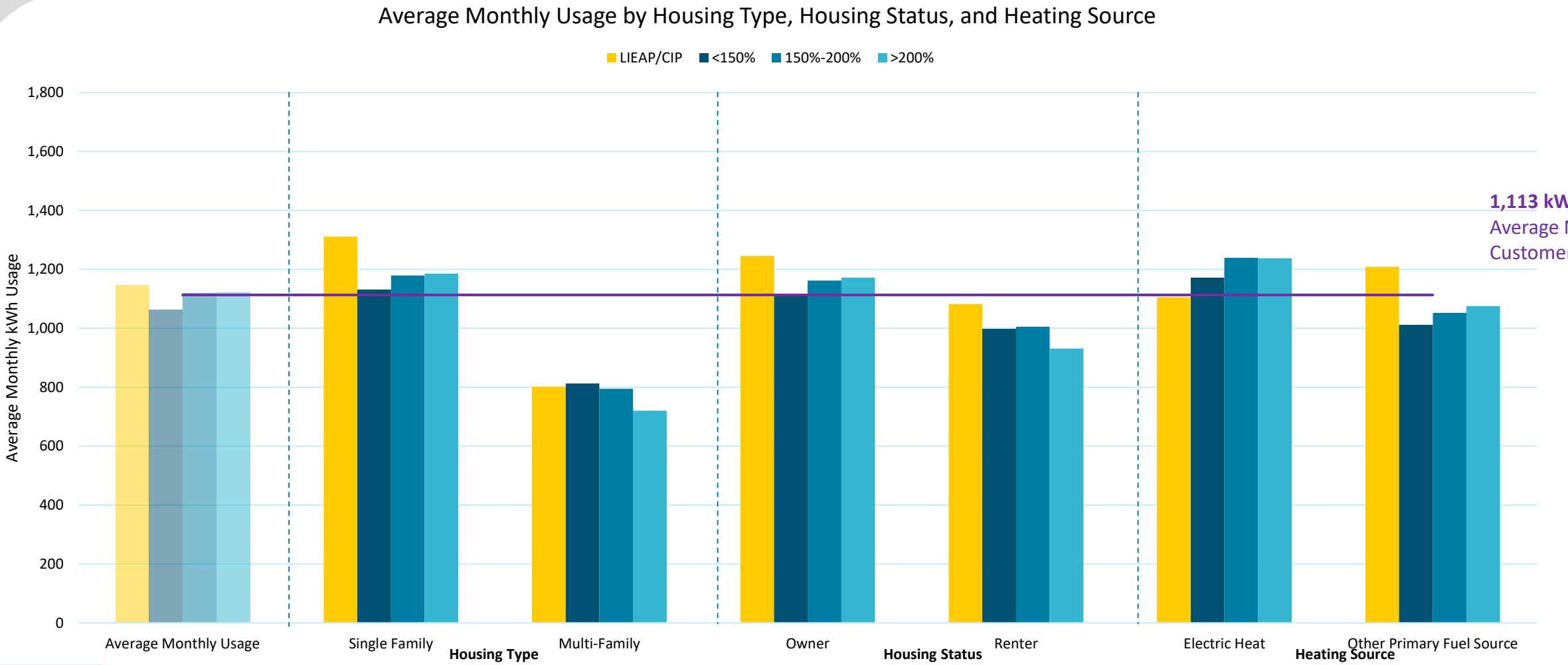
Housing Type: Single Family or Multi-Family

Housing Status: Owner or Renter

Heating Source: Electric or Other Primary Fuel Source

Average Monthly Usage by Income for Housing Type, Housing Status, and Heating Source

OFFICIAL COPY
Sep 28 2023



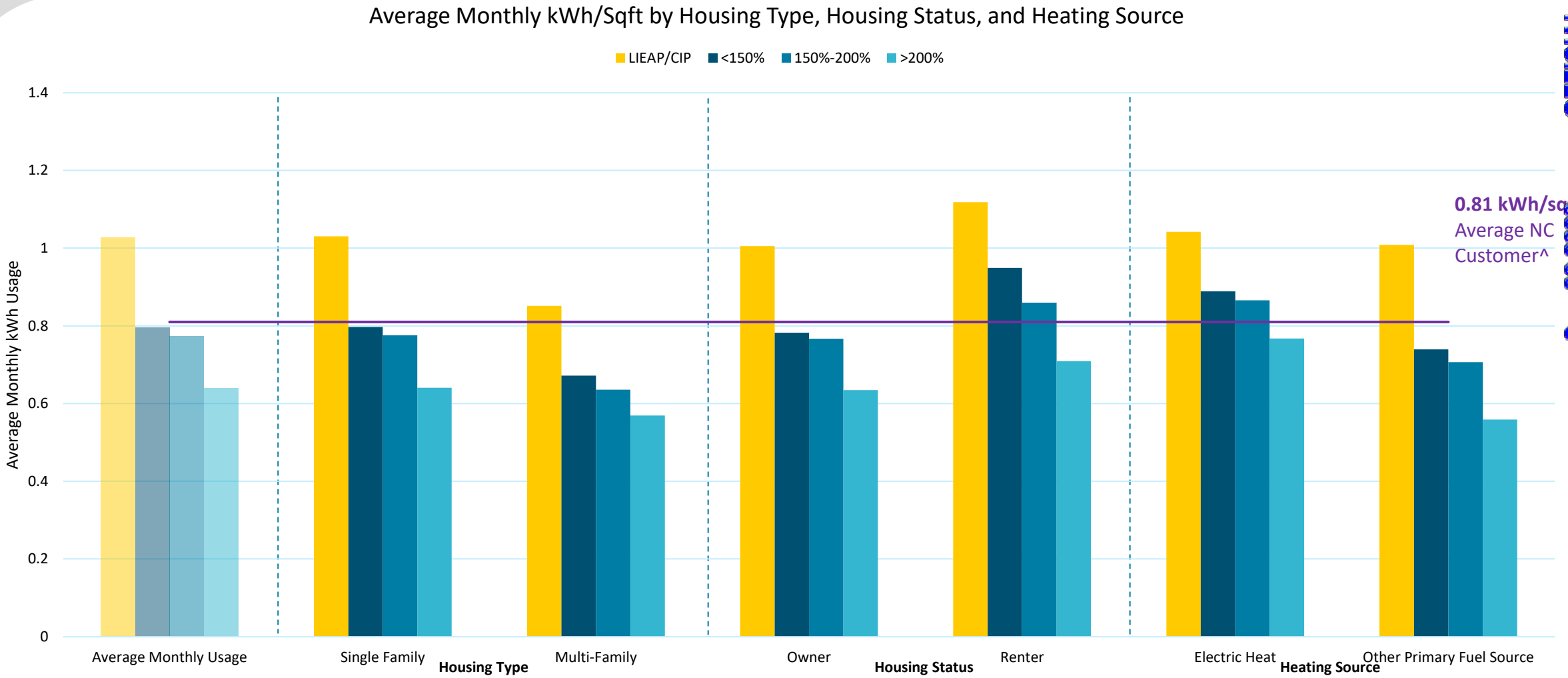
% Total Customers in Category*	98%	81%	13%	73%	25%	35%	44%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage per Square Foot by Income for Housing Type, Housing Status and Heating Source

OFFICIAL COPY
Sep 28 2023



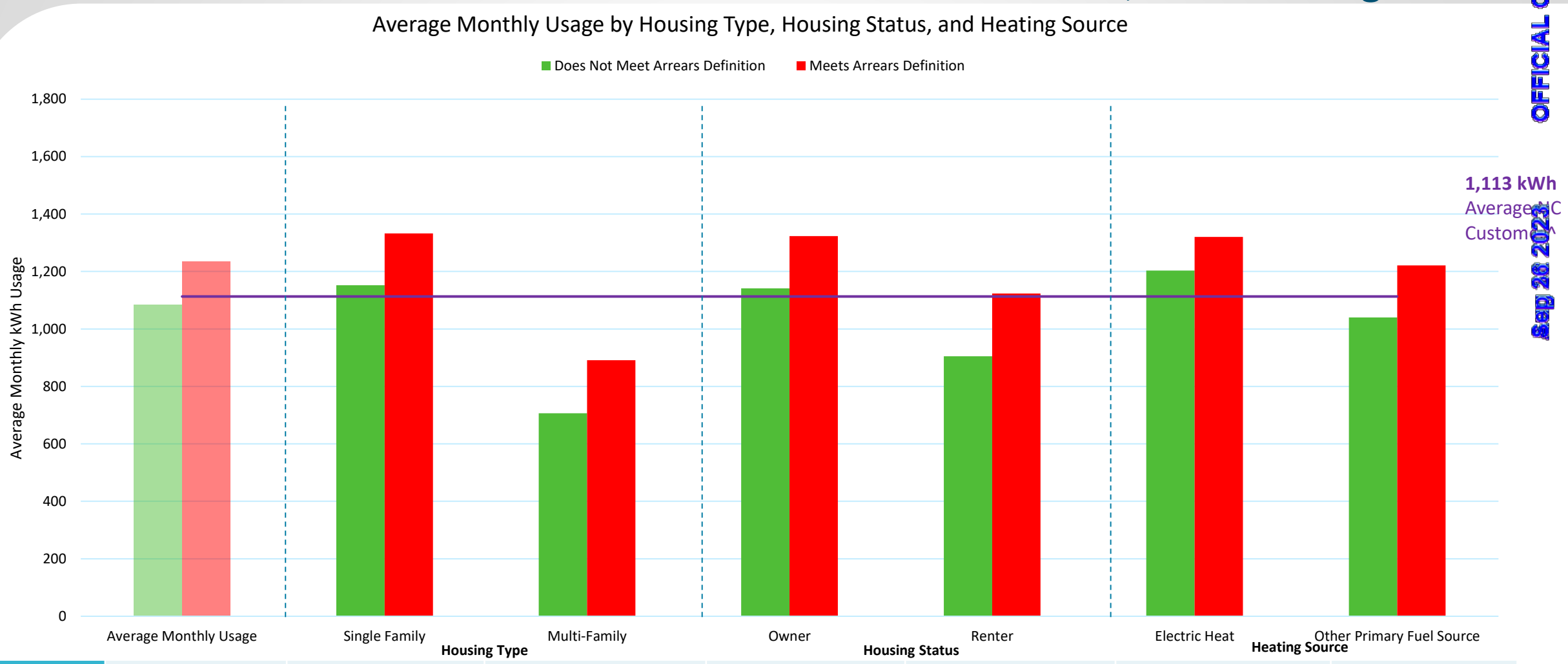
	Average Monthly Usage	Housing Type		Housing Status		Heating Source	
% Total Customers in Category*	98%	81%	13%	73%	25%	35%	44%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage by Arrearage Status for Housing Type, Housing Status, and Heating Source

OFFICIAL COPY
Sep 28 2023



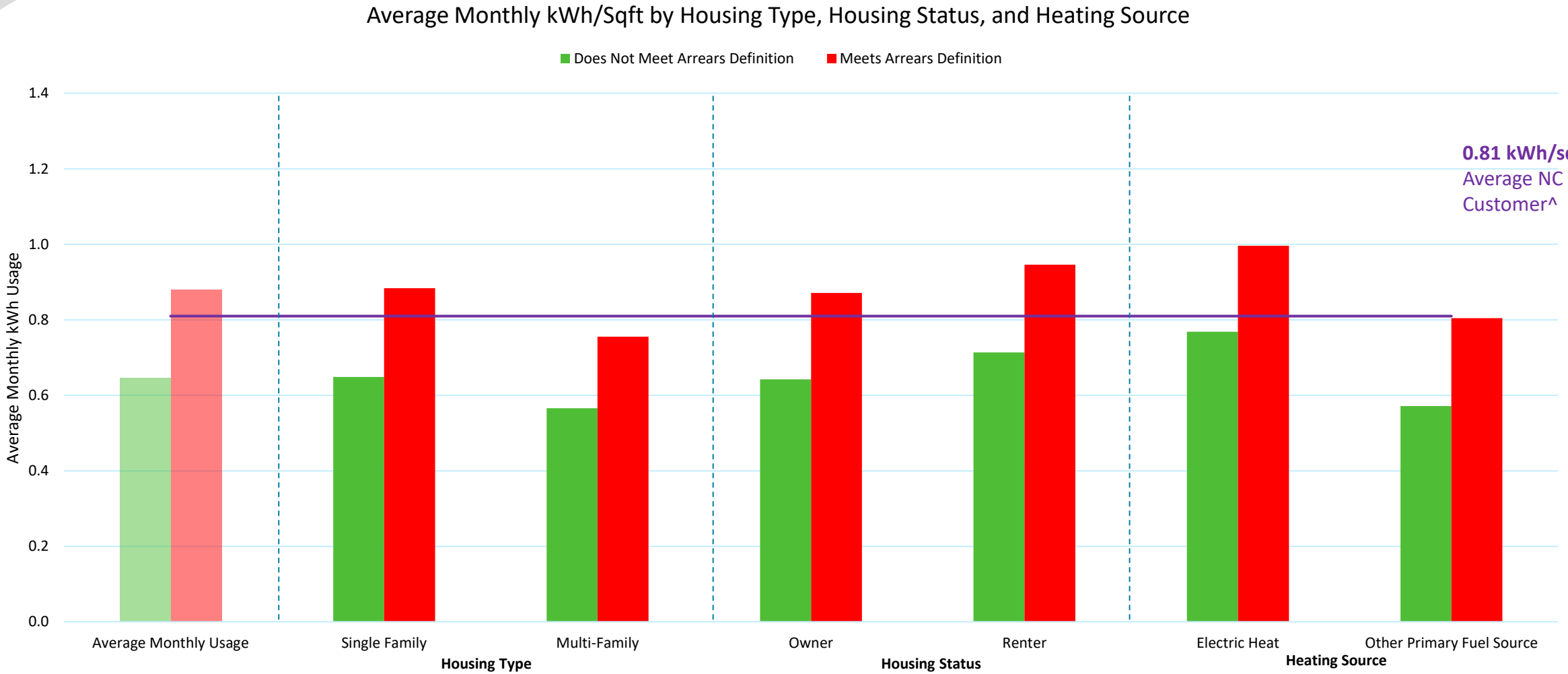
% Total Customers in Category*	98%	81%	13%	73%	25%	35%	44%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage per Square Foot by Arrearage Status for Housing Type, Housing Status, and Heating Source

OFFICIAL COPY
Sep 28 2023



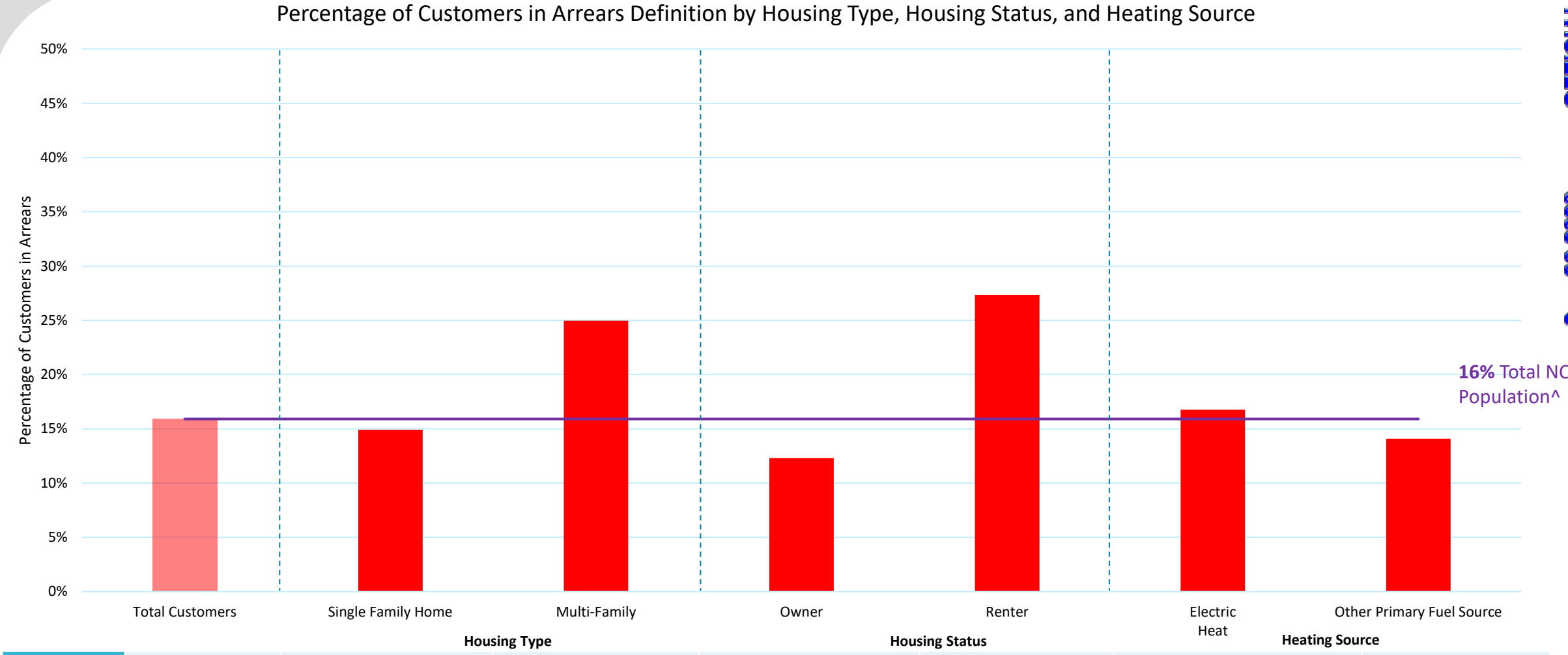
% Total Customers in Category*	98%	81%	13%	73%	25%	35%	44%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Percentage of Customers in Arrears Definition for Housing Type, Housing Status, and Heating Source

OFFICIAL COPY
Sep 28 2023



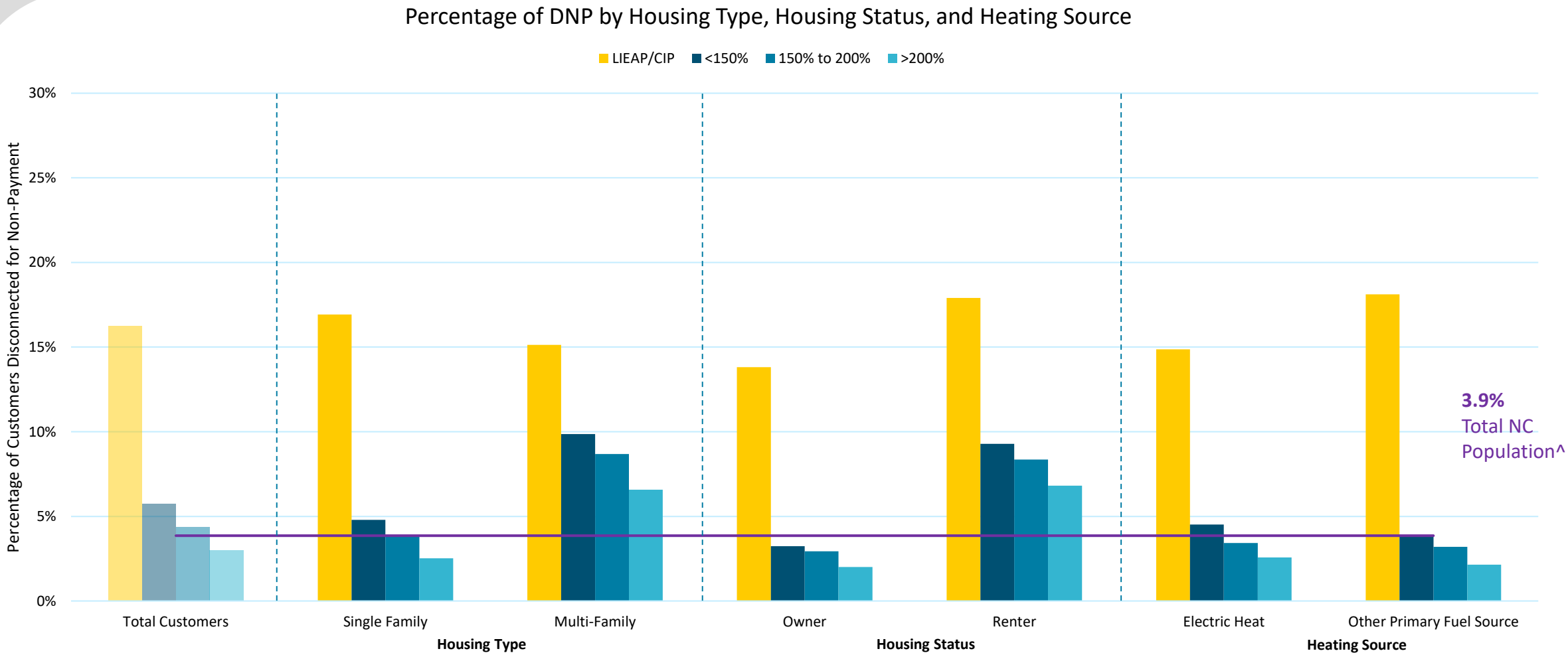
% Total Customers in Category*	98%	81%	13%	73%	25%	35%	44%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The total line includes customers who could not be categorized, therefore there may be instances of all groups above the total

Percentage of DNP by Income for Housing Type, Housing Status, and Heating Source

OFFICIAL COPY
Sep 28 2023

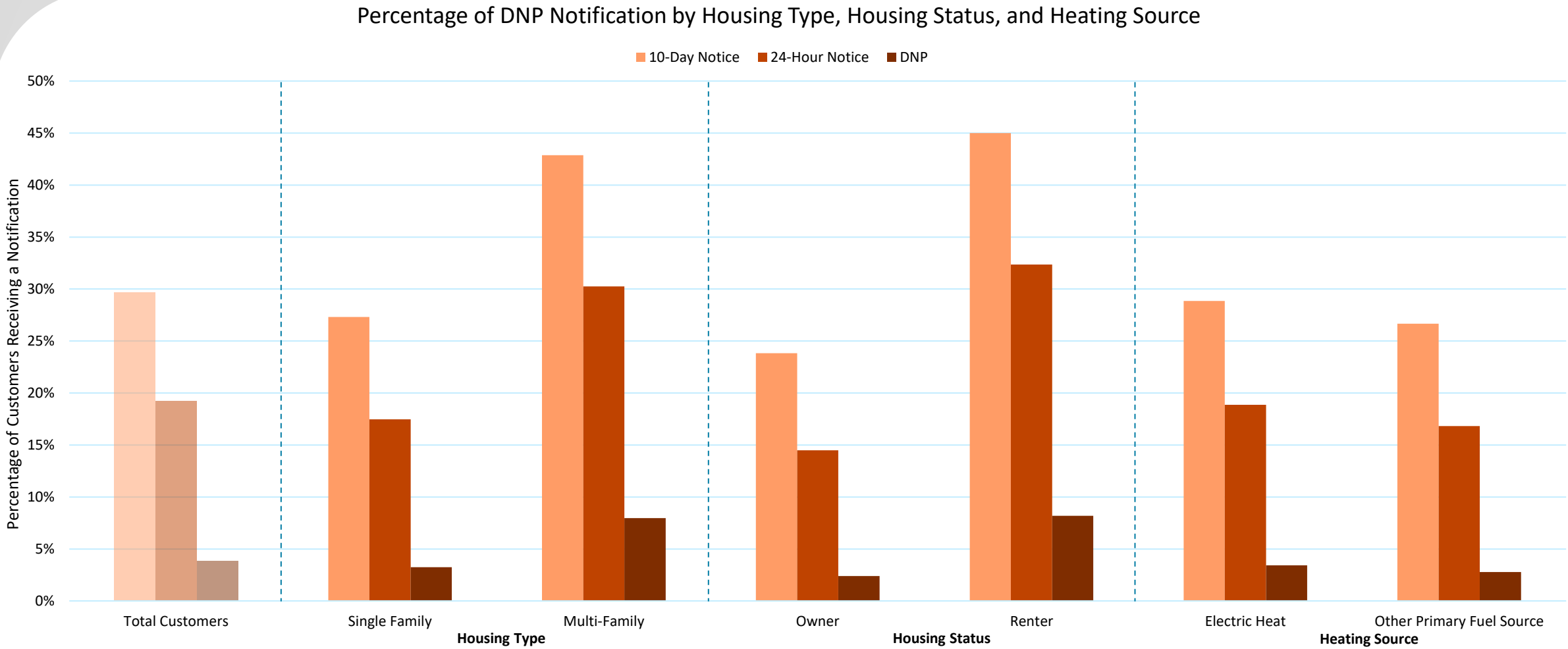


% Total Customers in Category*	98%	81%	13%	73%	25%	35%	44%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The total line includes customers who could not be categorized, therefore there may be instances of all groups above the total

Percentage of DNP Notifications by Notification Type for Housing Type, Housing Status, and Heating Source

OFFICIAL COPY
Sep 28 2023



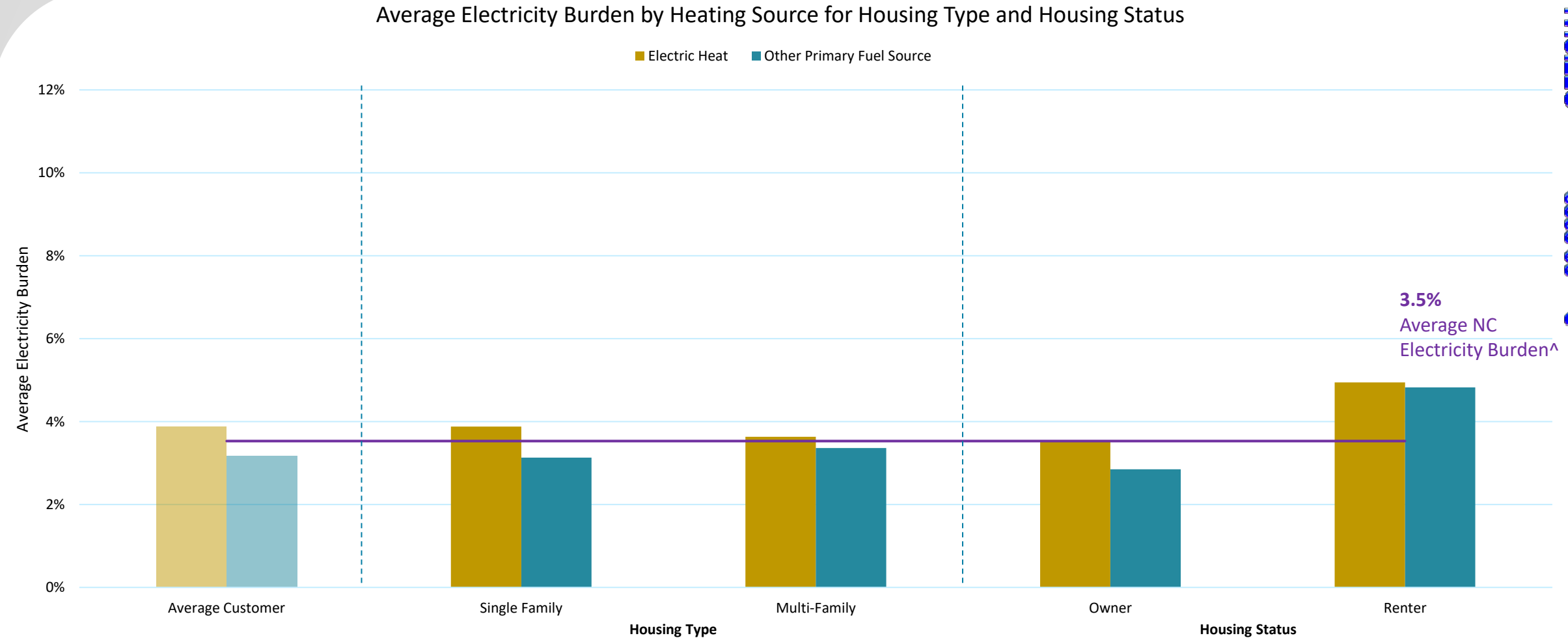
% Total Customers in Category*	98%	81%	13%	73%	25%	35%	44%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Average Electricity Burden by Heating Source for Housing Type and Housing Status

OFFICIAL COPY
Sep 28 2023



	Average Customer	Single Family	Multi-Family	Owner	Renter
% Total Customers in Category*	79%	81%	13%	73%	25%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The total line includes customers who could not be categorized, therefore there may be instances of all groups above the total

Income Level

OFFICIAL COPY
Sep 26 2023

Total Numbers

	Total Customers	Single Family	Multi-Family	Owner	Renter	Electric Heat	Other Primary Fuel Source
LIEAP/CIP	53,595	35,003	16,675	21,426	32,096	31,304	19,036
<150% FPL	385,339	288,707	73,114	226,014	159,325	137,088	160,977
150%-200% FPL	271,432	224,095	32,028	197,983	73,449	103,872	115,362
>200%	1,716,956	1,461,124	203,504	1,356,308	360,648	606,039	786,280
Total	2,427,322	2,008,929	325,321	1,801,731	625,518	878,303	1,081,655

Percentage of Customers in each Segment

	Total Customers	Single Family	Multi-Family	Owner	Renter	Electric Heat	Other Primary Fuel Source
LIEAP/CIP	2%	1.4%	0.7%	0.9%	1.3%	1.3%	0.8%
<150% FPL	16%	11.9%	3.0%	9.3%	6.6%	5.6%	6.6%
150%-200% FPL	11%	9.2%	1.3%	8.2%	3.0%	4.3%	4.8%
>200%	71%	60.2%	8.4%	55.9%	14.9%	25.0%	32.4%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Arrearage Status

OFFICIAL COPY
Sep 26 2023

Total Numbers

	Total Customers	Single Family	Multi-Family	Owner	Renter	Electric Heat	Other Primary Fuel Source
Meets Arrears Definition	395,204	299,654	81,170	221,791	171,042	147,315	152,792
Does not Meet Arrears Definition	2,089,823	1,709,275	244,151	1,579,940	454,476	731,760	931,129

Percentage of Customers in each Segment

	Total Customers	Single Family	Multi-Family	Owner	Renter	Electric Heat	Other Primary Fuel Source
Meets Arrears Definition	15.9%	12.1%	3.3%	8.9%	6.9%	5.9%	6.1%
Does not Meet Arrears Definition	84.1%	68.8%	9.8%	63.6%	18.3%	29.4%	37.5%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

DUKE ENERGY

DNP

OFFICIAL COPY
Sep 26 2023

Total Numbers	Total Customers	Single Family	Multi-Family	Owner	Renter	Electric Heat	Other Primary Fuel Source
LIEAP/CIP	8,714	5,925	2,523	2,961	5,745	4,654	3,450
<150% FPL	22,109	13,844	7,211	7,319	14,790	6,191	6,160
150%-200% FPL	11,940	8,539	2,781	5,806	6,134	3,562	3,695
>200%	51,817	36,882	13,383	27,249	24,568	15,610	16,872
Total	96,020	65,190	25,898	43,335	51,237	30,017	30,177

Percentage of Customers in that Segment DNP (i.e., Percentage of Single Family customers that were DNP)	Total Customers	Single Family	Multi-Family	Owner	Renter	Electric Heat	Other Primary Fuel Source
LIEAP/CIP	16.3%	16.9%	15.1%	13.8%	17.9%	14.9%	18.1%
<150% FPL	5.7%	4.8%	9.9%	3.2%	9.3%	4.5%	3.8%
150%-200% FPL	4.4%	3.8%	8.7%	2.9%	8.4%	3.4%	3.2%
>200%	3.0%	2.5%	6.6%	2.0%	6.8%	2.6%	2.1%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

DNP Notifications

OFFICIAL COPY
Sep 26 2023

Total Numbers	Total Customers	Single Family	Multi-Family	Owner	Renter	Electric Heat	Other Primary Fuel Source
Non-DNP/DLQ	1,765,215	1,460,374	185,828	1,372,290	344,113	625,729	795,541
10-Day Notice	719,816	548,554	139,493	429,439	281,405	253,345	288,379
24-Hour Notice	467,130	350,844	98,410	261,197	202,407	165,754	181,956
DNP	96,020	65,190	25,898	43,335	51,237	30,114	30,183

Percentage of Customers in that Segment Received a DNP Notification (i.e., Percentage of Single Family customers that received a 10-Day Notice)	Total Customers	Single Family	Multi-Family	Owner	Renter	Electric Heat	Other Primary Fuel Source
Non-DNP/DLQ	72.7%	72.7%	57.1%	76.2%	55.0%	71.2%	73.5%
10-Day Notice	29.7%	27.3%	42.9%	23.8%	45.0%	28.8%	26.7%
24-Hour Notice	19.2%	17.5%	30.3%	14.5%	32.4%	18.9%	16.8%
DNP	3.9%	3.2%	8.0%	2.4%	8.2%	3.4%	2.8%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Electricity Burden

OFFICIAL COPY
Sep 26 2023

Total Numbers

	Total Customers	Single Family	Multi-Family	Owner	Renter	LIEAP/CIP	Non-LIEAP/CIP	Meets Arrears Definition	Does Not Meet Arrears Definition
Electric Heat	879,075	700,612	143,828	650,508	227,794	31,304	847,771	147,315	731,760
Other Primary Fuel Sources	1,083,921	996,522	45,025	903,247	178,406	19,036	1,064,885	152,792	931,129

Percentage of Customers in each Segment

	Total Customers	Single Family	Multi-Family	Owner	Renter	LIEAP/CIP	Non-LIEAP/CIP	Meets Arrears Definition	Does Not Meet Arrears Definition
Electric Heat	35.4%	28.2%	5.8%	26.2%	9.2%	1.3%	34.1%	5.9%	29.4%
Other Primary Fuel Sources	43.6%	40.1%	1.8%	36.3%	7.2%	0.8%	42.9%	6.1%	37.5%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

OFFICIAL COPY
Sep 28 2023

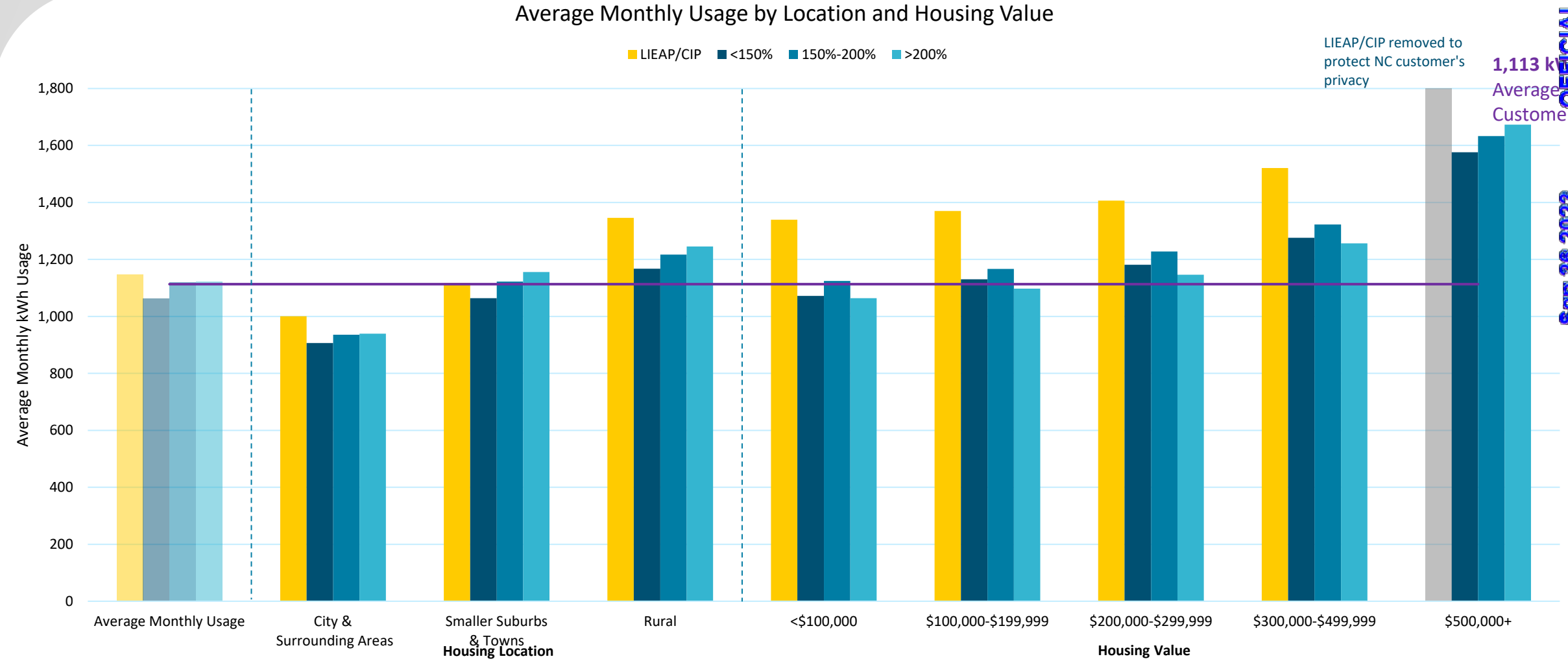
Analysis by Housing Location and Housing Value

Housing Location: City & Surrounding Area, Smaller Suburbs & Towns, Rural

Housing Value: <$100,000, $100,000-$199,999, $200,000-$299,999, $300,000-$499,999, $500,000+

Average Monthly Usage by Income for Location and Housing Value

OFFICIAL COPY
Sep 28 2023



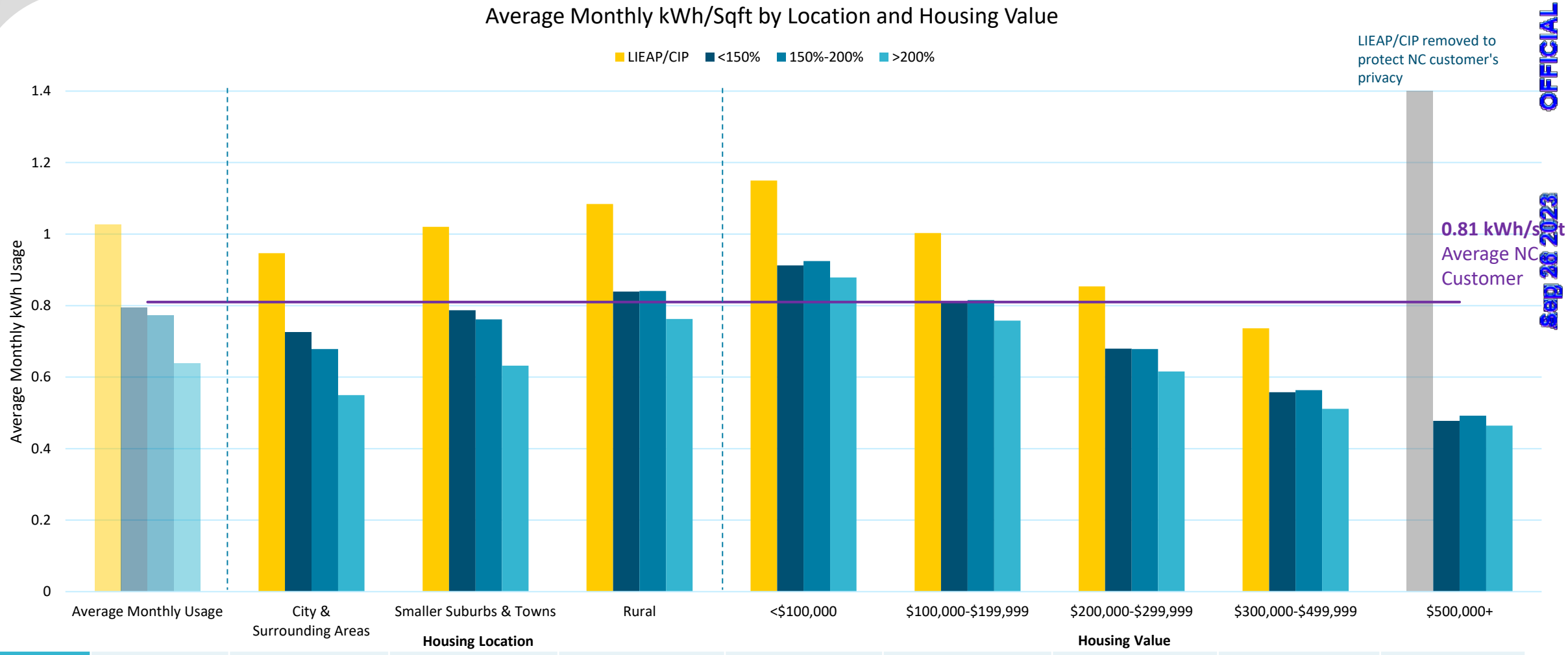
% Total Customers in Category*	98%	24%	49%	25%	7%	22%	15%	12%	5%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage per Square Foot by Income for Location and Housing Value

OFFICIAL COPY
Sep 28 2023



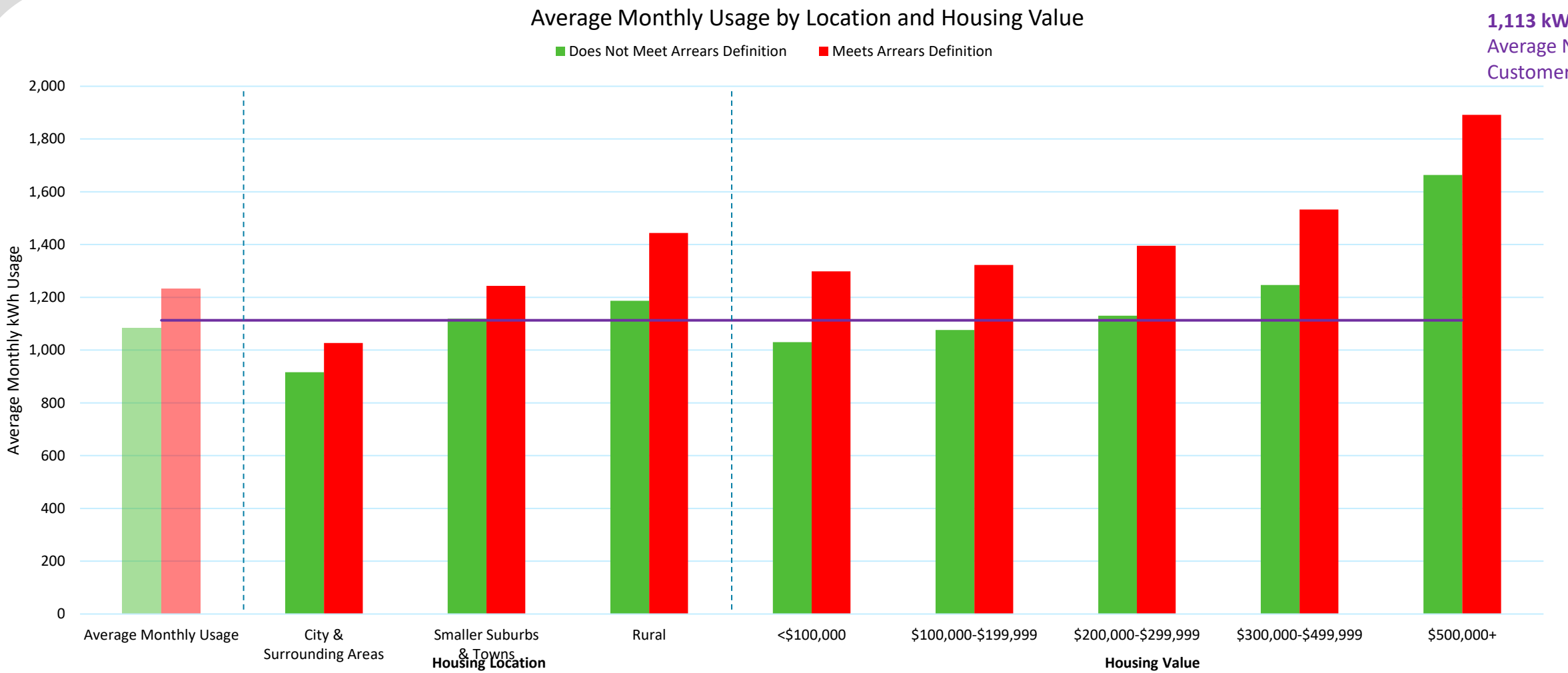
	Average Monthly Usage	City & Surrounding Areas	Smaller Suburbs & Towns	Rural	<$100,000	$100,000-$199,999	$200,000-$299,999	$300,000-$499,999	$500,000+
% Total Customers in Category*	98%	24%	49%	25%	7%	22%	15%	12%	5%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage by Arrearage Status for Location and Housing Value

OFFICIAL COPY
Sep 28 2023



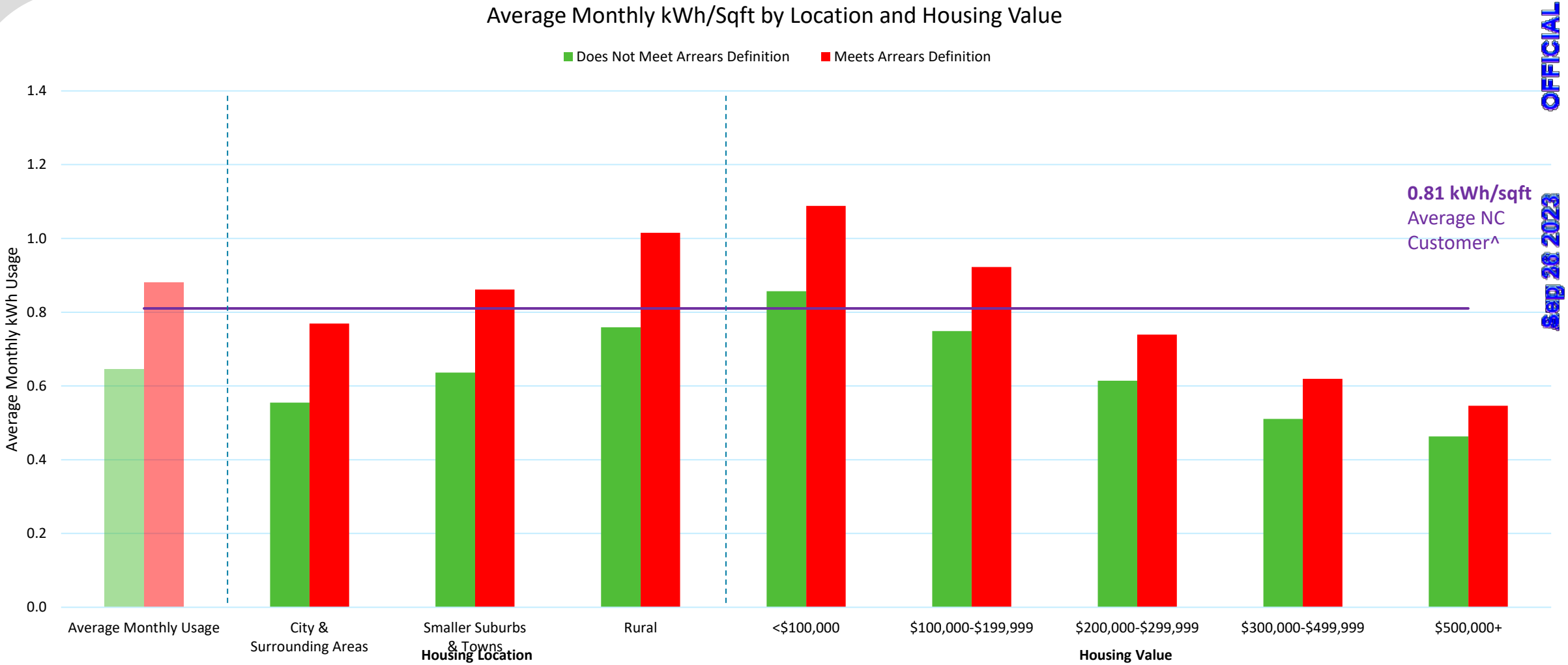
% Total Customers in Category*	100%	24%	49%	25%	7%	22%	15%	12%	5%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage per Square Foot by Arrearage Status for Location and Housing Value

OFFICIAL COPY
Sep 28 2023



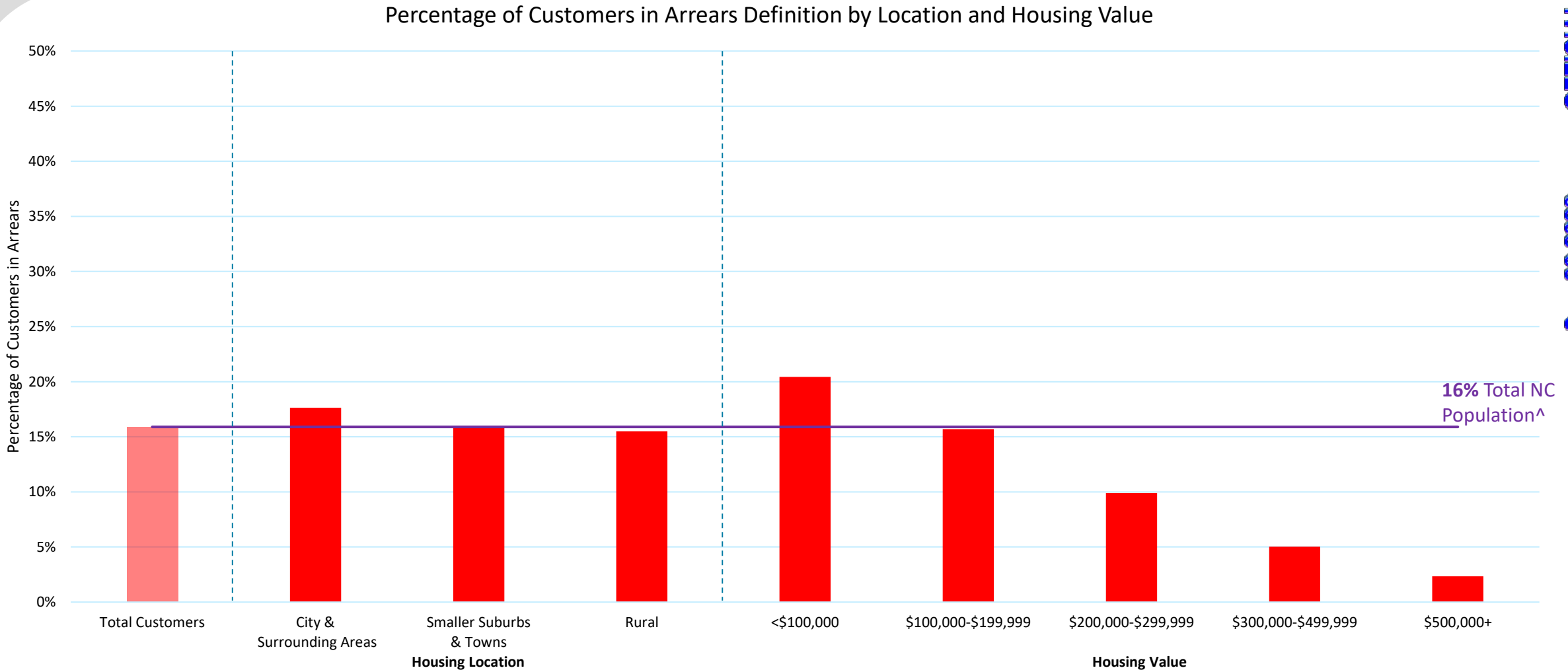
% Total Customers in Category*	100%	24%	49%	25%	7%	22%	15%	12%	5%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Percentage of Customers in Arrears Definition for Location and Housing Value

OFFICIAL COPY
Sep 28 2023



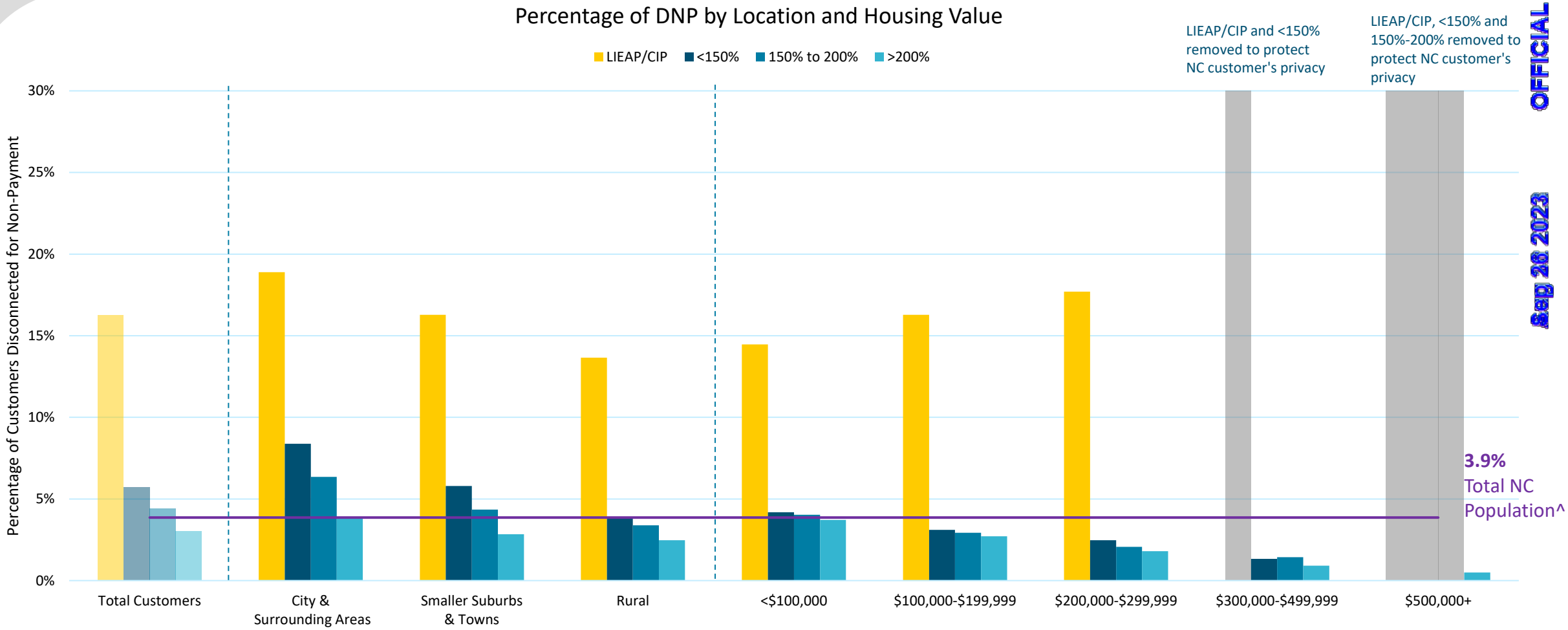
% Total Customers in Category*	100%	24%	49%	25%	7%	22%	15%	12%	5%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The total line includes customers who could not be categorized, therefore there may be instances of all groups above the total

Percentage of DNP by Income for Location and Housing Value

OFFICIAL COPY
Sep 28 2023



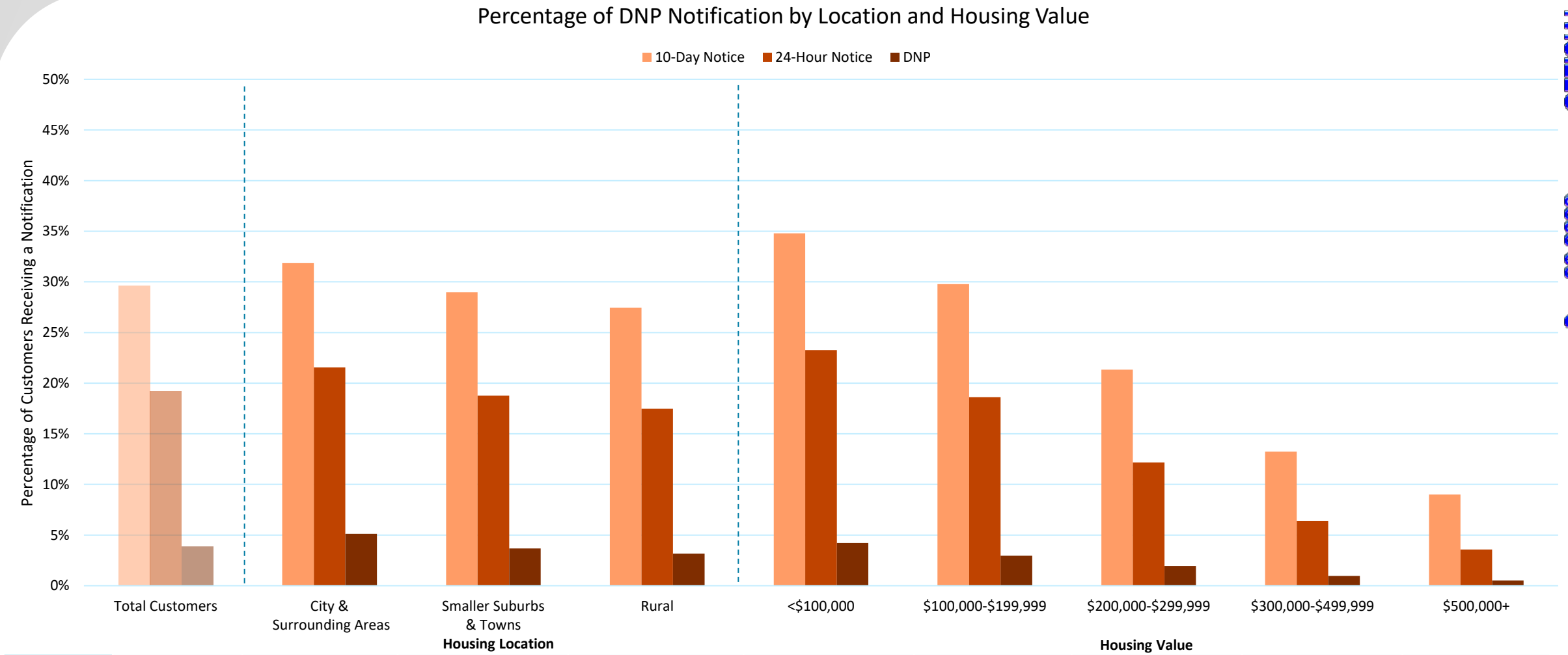
% Total Customers in Category*	98%	24%	49%	25%	7%	22%	15%	12%	5%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The total line includes customers who could not be categorized, therefore there may be instances of all groups above the total

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Percentage of DNP Notifications by Notification Type for Location and Housing Value

OFFICIAL COPY
Sep 28 2023

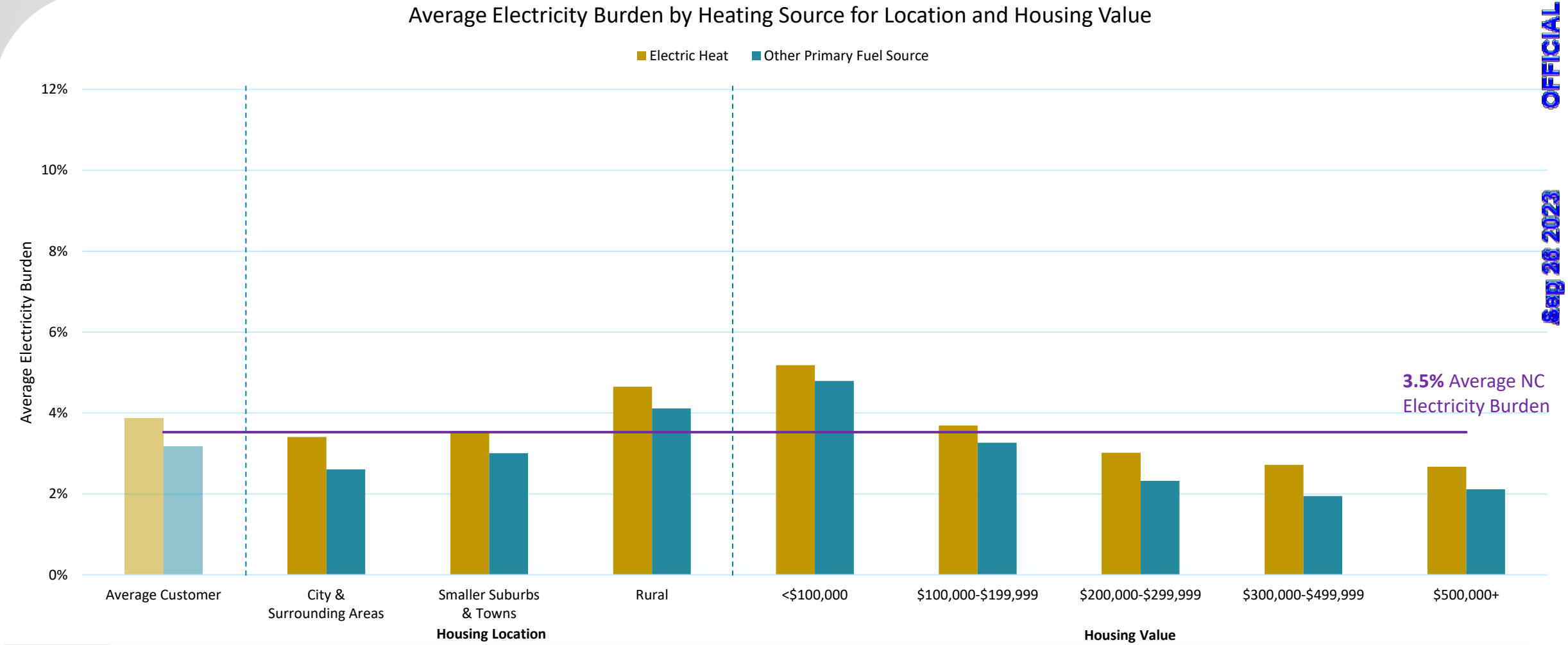


% Total Customers in Category*	98%	24%	49%	25%	7%	22%	15%	12%	5%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

Average Electricity Burden by Heating Source for Location and Housing Value

OFFICIAL COPY
Sep 28 2023



	Average Customer	City & Surrounding Areas	Smaller Suburbs & Towns	Rural	<$100,000	$100,000-$199,999	$200,000-$299,999	$300,000-$499,999	$500,000+
% Total Customers in Category*	79%	24%	49%	25%	7%	22%	15%	12%	5%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The total line includes customers who could not be categorized, therefore there may be instances of all groups above the total

DUKE ENERGY

Income Level

OFFICIAL COPY
Sep 28 2023

Total Numbers

	City & Surrounding Areas	Smaller Suburbs & Towns	Rural	<$100,000	$100,000-$199,999	$200,000-$299,999	$300,000-$499,999	$500,000+
LIEAP/CIP	14,018	25,207	14,297	4,535	6,046	1,627	347	-
<150% FPL	87,157	166,037	132,145	51,337	80,182	27,323	12,596	3,458
150%-200% FPL	51,749	125,087	94,596	30,121	75,370	32,284	16,360	4,019
>200%	433,504	895,257	388,195	81,870	383,703	322,724	280,723	120,811
Total	586,428	1,211,588	629,233	167,863	545,301	383,958	310,026	-

Percentage of Customers in each Segment

	City & Surrounding Areas	Smaller Suburbs & Towns	Rural	<$100,000	$100,000-$199,999	$200,000-$299,999	$300,000-$499,999	$500,000+
LIEAP/CIP	0.6%	1.0%	0.6%	0.2%	0.2%	0.1%	0.0%	-
<150% FPL	3.6%	6.8%	5.4%	2.1%	3.3%	1.1%	0.5%	0.1%
150%-200% FPL	2.1%	5.2%	3.9%	1.2%	3.1%	1.3%	0.7%	0.2%
>200%	17.9%	36.9%	16.0%	3.4%	15.8%	13.3%	11.6%	5.0%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Arrearage Status

OFFICIAL COPY
Sep 28 2023

Total Numbers	City & Surrounding Areas	Smaller Suburbs & Towns	Rural	<$100,000	$100,000-$199,999	$200,000-$299,999	$300,000-$499,999	$500,000+
Meets Arrears Definition	103,427	191,924	97,482	34,301	85,574	37,974	15,555	2,995
Does not Meet Arrears Definition	483,001	1,019,664	531,751	133,562	459,727	345,984	294,471	125,343

Percentage of Customers in each Segment	City & Surrounding Areas	Smaller Suburbs & Towns	Rural	<$100,000	$100,000-$199,999	$200,000-$299,999	$300,000-$499,999	$500,000+
Meets Arrears Definition	4.2%	7.7%	3.9%	3.9%	3.4%	1.5%	0.6%	0.1%
Does not Meet Arrears Definition	19.4%	41.0%	21.4%	21.4%	18.5%	13.9%	11.8%	5.0%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

DUKE ENERGY

DNP

OFFICIAL COPY
Sep 26 2023

Total Numbers

	City & Surrounding Areas	Smaller Suburbs & Towns	Rural	<$100,000	$100,000-$199,999	$200,000-$299,999	$300,000-$499,999	$500,000+
LIEAP/CIP	2,648	4,105	1,953	656	984	288	-	-
<150% FPL	7,312	9,625	5,172	2,147	2,497	678	168	-
150%-200% FPL	3,290	5,448	3,202	1,216	2,206	668	234	-
>200%	16,721	25,496	9,600	3,049	10,439	5,827	2565	603
Total	29,971	44,674	19,927	7,068	16,126	7,461	-	659

Percentage of Customers in that Segment DNP (i.e., Percentage of <$100,000 customers that were DNP)

	City & Surrounding Areas	Smaller Suburbs & Towns	Rural	<$100,000	$100,000-$199,999	$200,000-$299,999	$300,000-$499,999	$500,000+
LIEAP/CIP	18.9%	16.3%	13.7%	14.5%	16.3%	17.7%	17.6%	10.0%
<150% FPL	8.4%	5.8%	3.9%	4.2%	3.1%	2.5%	1.3%	0.9%
150%-200% FPL	6.4%	4.4%	3.4%	4.0%	2.9%	2.1%	1.4%	0.5%
>200%	3.9%	2.8%	2.5%	3.7%	2.7%	1.8%	0.9%	0.5%

DNP Notifications

OFFICIAL COPY
Sep 26 2023

Total Numbers

	City & Surrounding Areas	Smaller Suburbs & Towns	Rural	<$100,000	$100,000-$199,999	$200,000-$299,999	$300,000-$499,999	$500,000+
Non-DNP/DLQ	399,552	860,367	456,484	109,457	382,864	302,042	269,018	116,783
10-Day Notice	186,876	351,220	172,748	58,405	162,437	81,916	41,008	11,555
24-Hour Notice	126,384	227,356	109,864	39,066	101,501	46,705	19,807	4,580
DNP	29,971	44,674	19,927	7,068	16,126	7,461	-	659

Percentage of Customers in that Segment DNP Received a DNP Notification (i.e., Percentage of <$100,000 customers that received a 10-Day Notice)

	City & Surrounding Areas	Smaller Suburbs & Towns	Rural	<$100,000	$100,000-$199,999	$200,000-$299,999	$300,000-$499,999	$500,000+
Non-DNP/DLQ	68.1%	71.0%	72.5%	65.2%	70.2%	78.7%	86.8%	91.0%
10-Day Notice	31.9%	29.0%	27.5%	34.8%	29.8%	21.3%	13.2%	9.0%
24-Hour Notice	21.6%	18.8%	17.5%	23.3%	18.6%	12.2%	6.4%	3.6%
DNP	5.1%	3.7%	3.2%	4.2%	3.0%	1.9%	-	0.5%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Electricity Burden

OFFICIAL COPY
Sep 26 2023

Total Numbers

	City & Surrounding Areas	Smaller Suburbs & Towns	Rural	<$100,000	$100,000-$199,999	$200,000-$299,999	$300,000-$499,999	$500,000+
Electric Heat	157,915	437,836	282,551	58,703	229,745	138,982	86,332	24,943
Other Primary Fuel Sources	270,100	550,939	260,614	88,038	246,138	192,530	182,551	85,801

Percentage of Customers in each Segment

	City & Surrounding Areas	Smaller Suburbs & Towns	Rural	<$100,000	$100,000-$199,999	$200,000-$299,999	$300,000-$499,999	$500,000+
Electric Heat	6.4%	17.6%	11.4%	2.4%	9.2%	5.6%	3.5%	1.0%
Other Primary Fuel Sources	10.9%	22.2%	10.5%	3.5%	9.9%	7.7%	7.3%	3.5%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

OFFICIAL COPY
Sep 28 2023

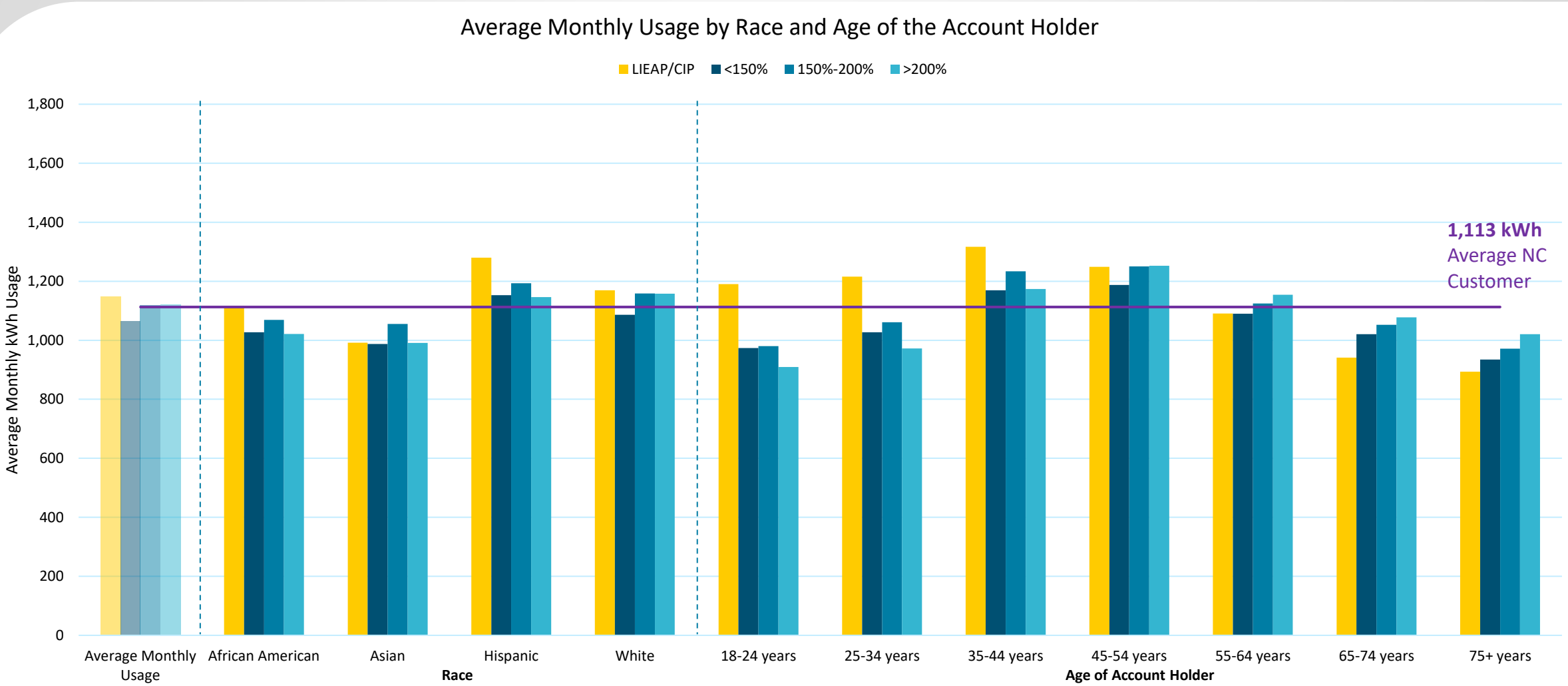
Analysis by Race and Age of the Account Holder

Race: African American, Asian, Hispanic, White

Age of Account Holder: 18-24, 25-34, 35-44, 45-54, 55-64, 65-74, 75+

Average Monthly Usage by Income for Race and Age of the Account Holder

OFFICIAL COPY
Sep 28 2023



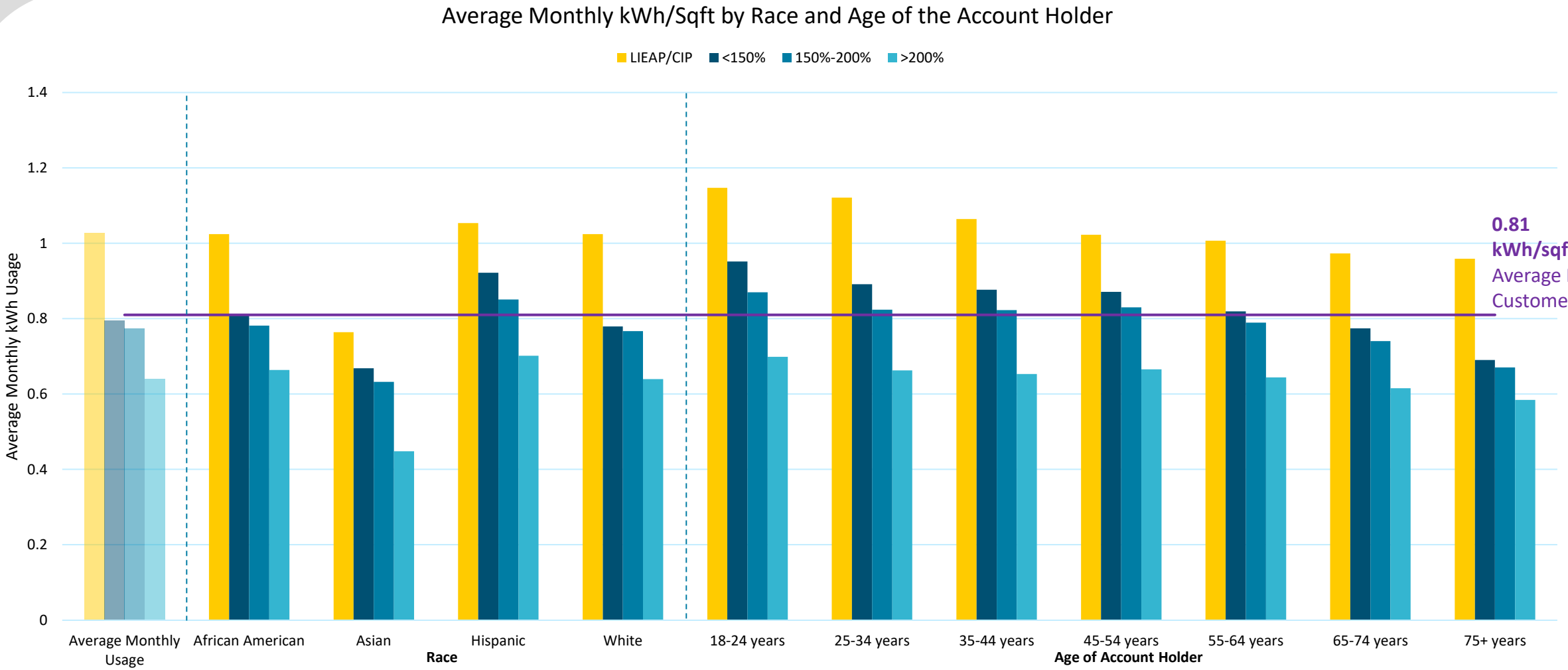
	Average Monthly Usage	African American	Asian	Hispanic	White	18-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75+ years
% Total Customers in Category	98%	11%	2%	5%	71%	2%	12%	16%	18%	20%	17%	13%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage per Square Foot by Income for Race and Age of the Account Holder

OFFICIAL COPY
Sep 28 2023



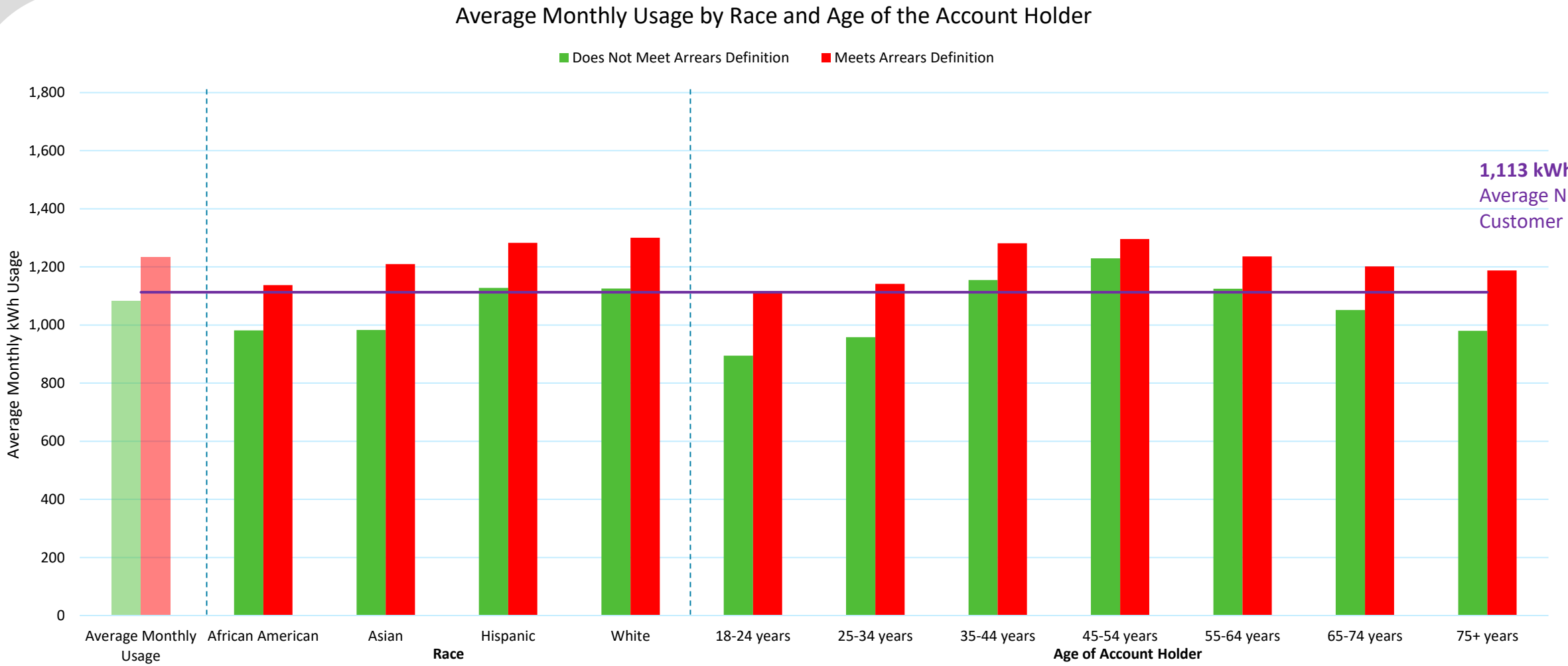
	Average Monthly Usage	African American	Asian	Hispanic	White	18-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75+ years
% Total Customers in Category	98%	11%	2%	5%	71%	2%	12%	16%	18%	20%	17%	13%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage by Arrearage Status for Race and Age of the Account Holder

OFFICIAL COPY
Sep 28 2023



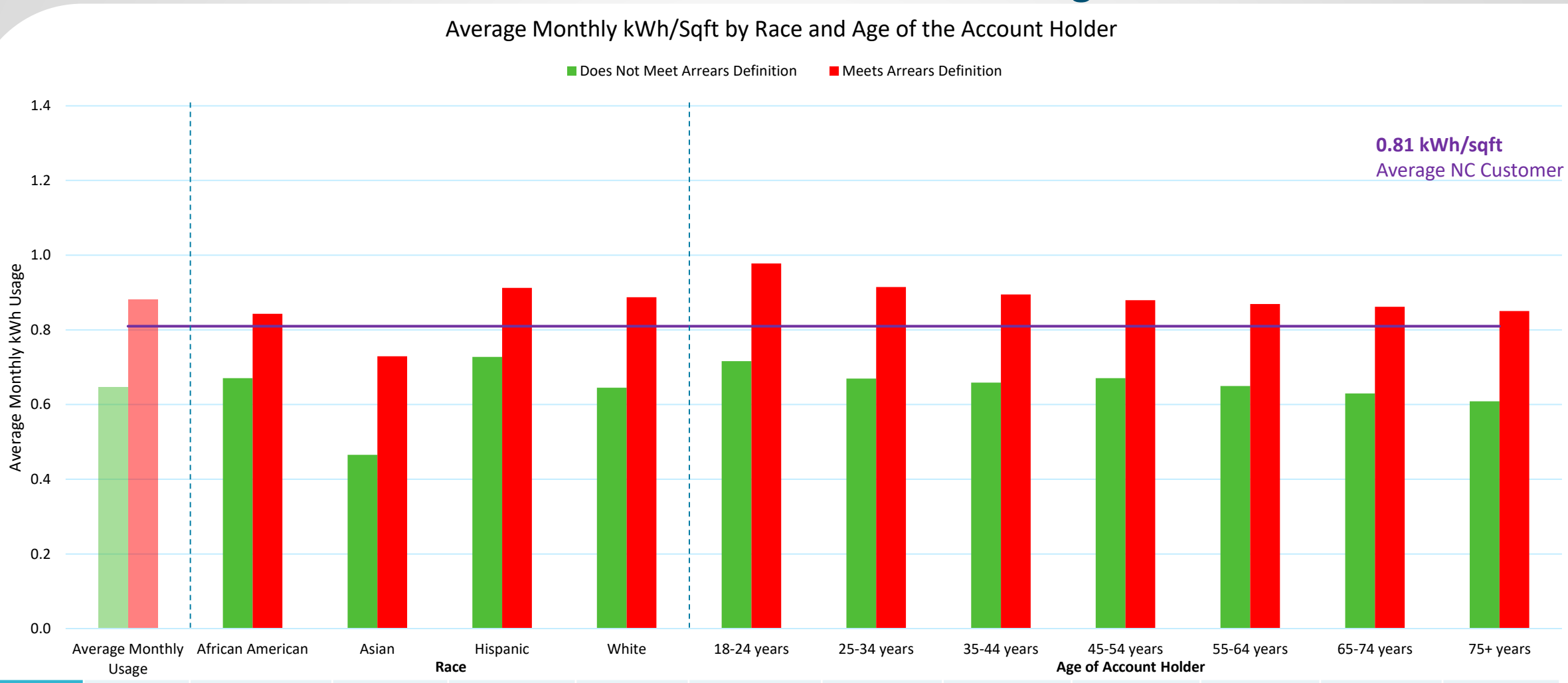
	Average Monthly Usage	African American	Asian	Hispanic	White	18-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75+ years
% Total Customers in Category	100%	11%	2%	5%	71%	2%	12%	16%	18%	20%	17%	13%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage per Square Foot by Arrearage Status for Race and Age of the Account Holder

OFFICIAL COPY
Sep 28 2023



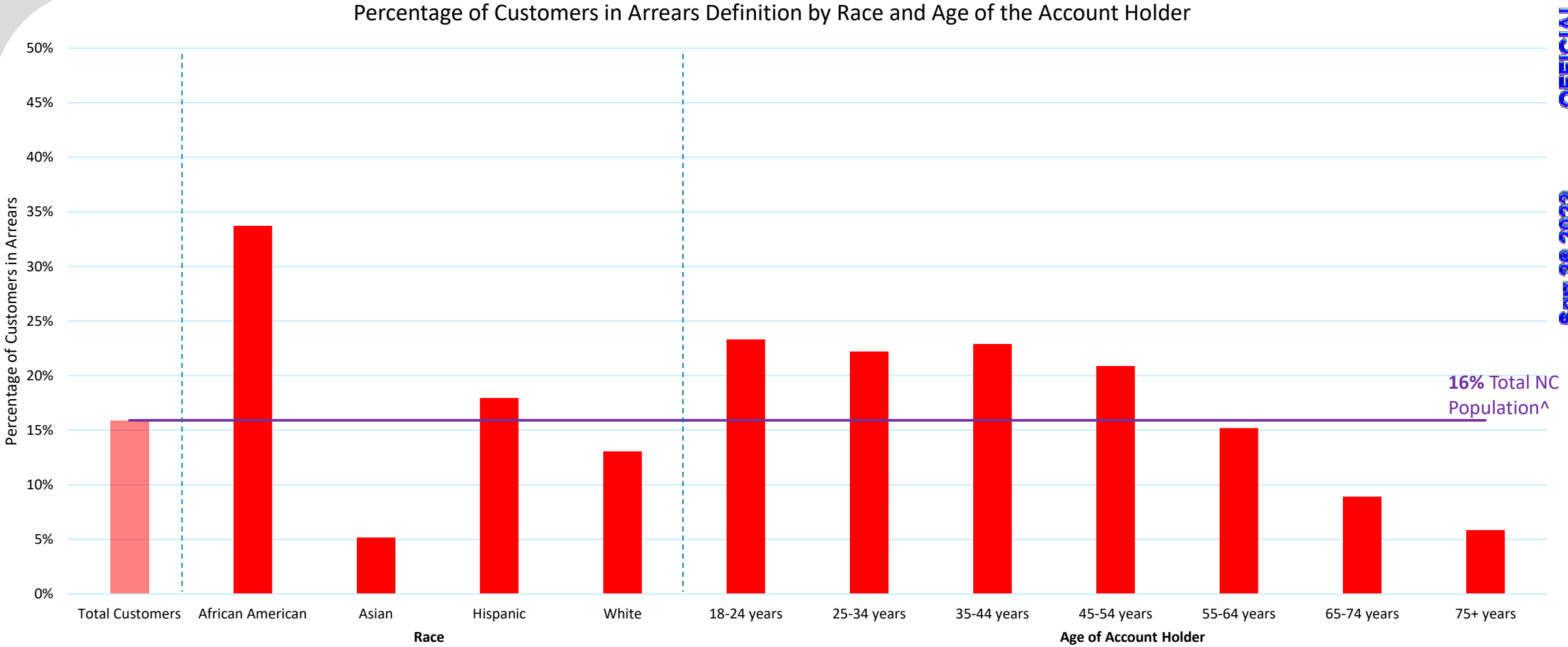
	Average Monthly Usage	African American	Asian	Hispanic	White	18-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75+ years
% Total Customers in Category	100%	11%	2%	5%	71%	2%	12%	16%	18%	20%	17%	13%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Percentage of Customers in Arrears Definition for Race and Age of the Account Holder

OFFICIAL COPY
Sep 28 2023



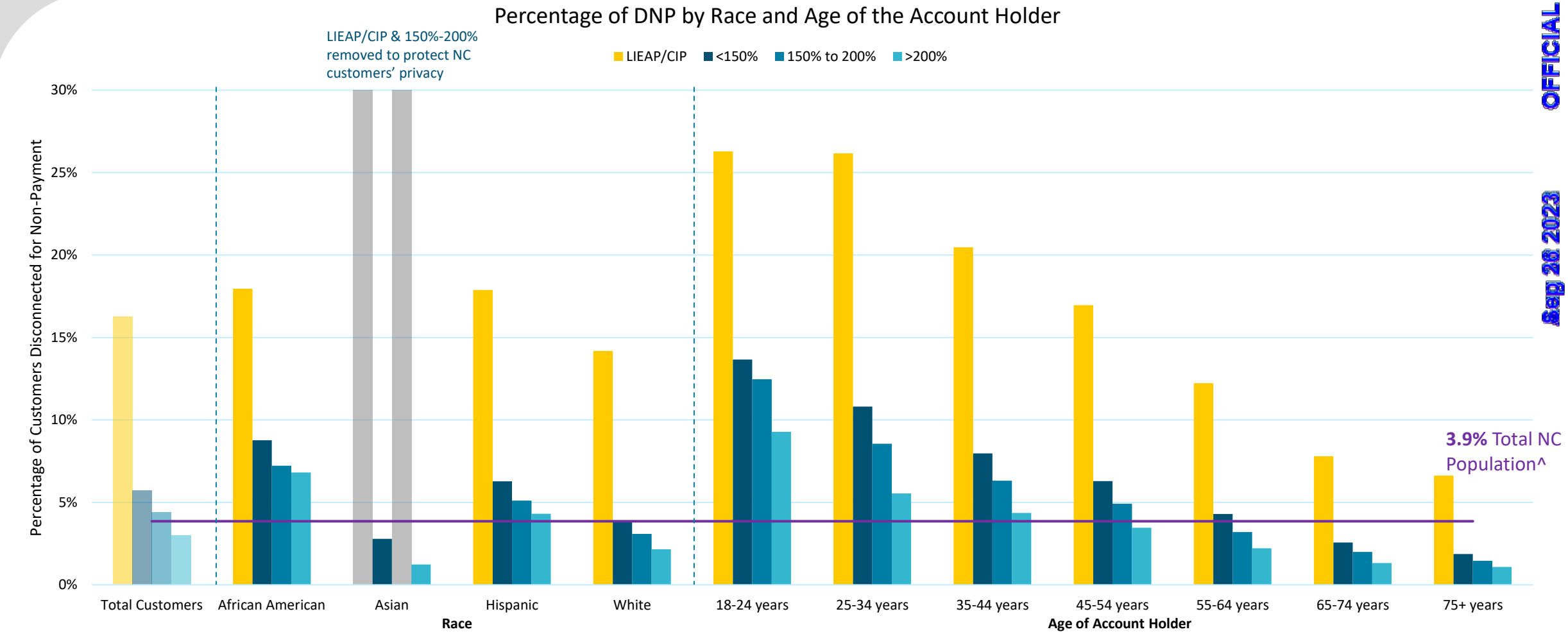
	Total Customers	African American	Asian	Hispanic	White	18-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75+ years
% Total Customers in Category	100%	11%	2%	5%	71%	2%	12%	16%	18%	20%	17%	13%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The total line includes customers who could not be categorized, therefore there may be instances of all groups above the total

Percentage of DNP by Income for Race and Age of the Account Holder

OFFICIAL COPY
Sep 28 2023

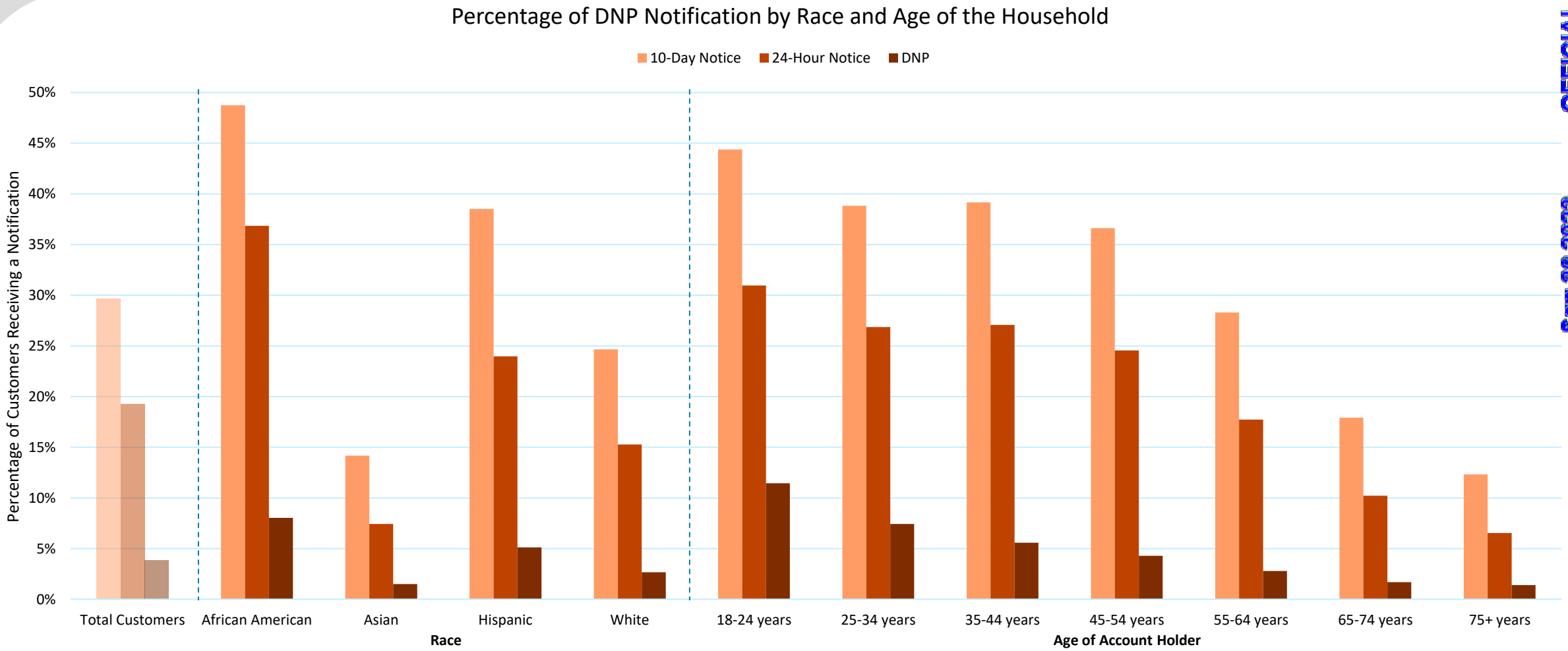


% Total Customers in Category	98%	11%	2%	5%	71%	2%	12%	16%	18%	20%	17%	13%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The total line includes customers who could not be categorized, therefore there may be instances of all groups above the total

Percentage of DNP Notifications by Notification Type for Race and Age of the Account Holder

OFFICIAL COPY
Sep 28 2023



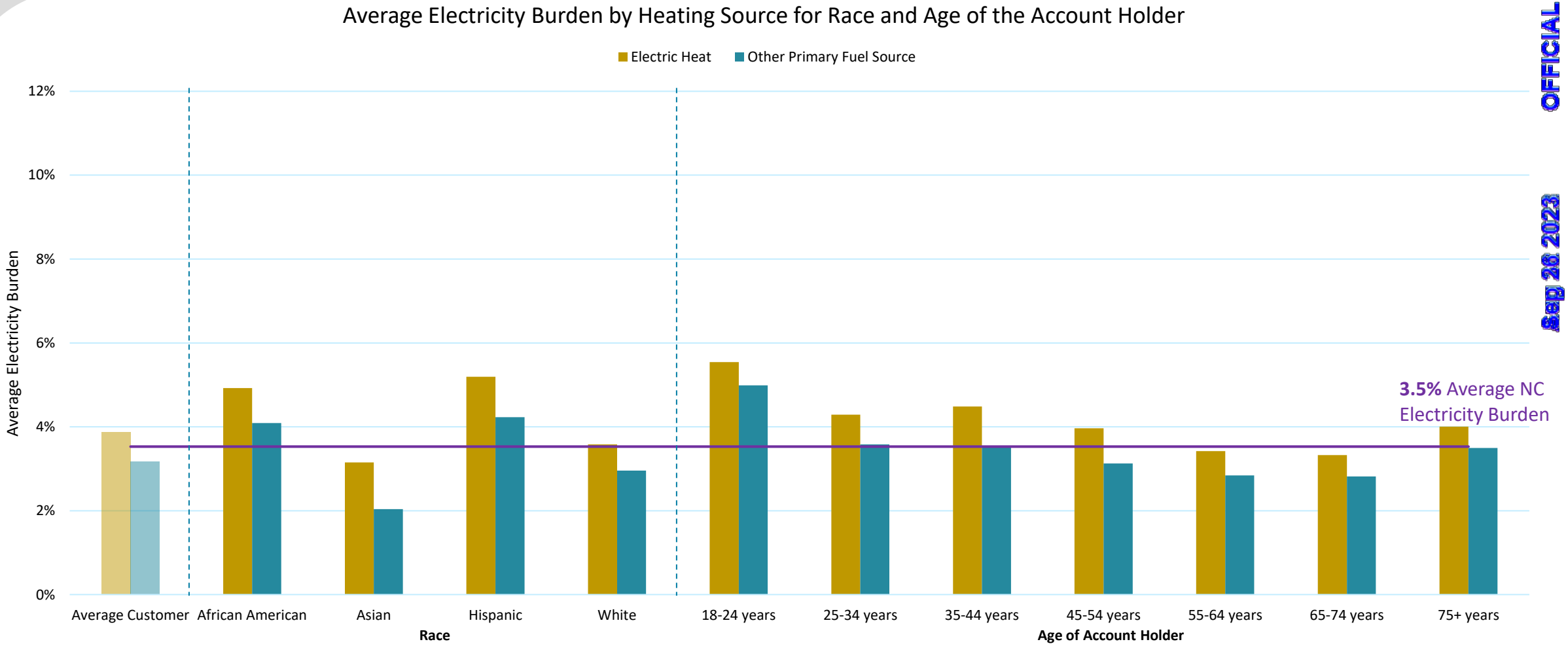
% Total Customers in Category	98%	11%	2%	5%	71%	2%	12%	16%	18%	20%	17%	13%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Average Electricity Burden by Heating Source for Race and Age of the Account Holder

OFFICIAL COPY
Sep 28 2023



	Average Customer	African American	Asian	Hispanic	White	18-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75+ years
% Total Customers in Category	79%	11%	2%	5%	71%	2%	12%	16%	18%	20%	17%	13%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The total line includes customers who could not be categorized, therefore there may be instances of all groups above the total

Income Level

OFFICIAL COPY
Sep 26 2023

Total Number of Customers in each Segment

	African American	Asian	Hispanic	White	18-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75+ years
LIEAP/CIP	18,509	306	2,348	26,355	1,617	8,778	10,489	9,454	10,740	8,051	4,391
<150% FPL	59,739	5,272	26,773	239,271	14,945	53,015	62,326	63,061	59,109	53,766	78,031
150%-200% FPL	31,573	3,872	14,034	184,245	6,513	30,506	45,017	51,861	50,425	42,012	44,647
>200%	167,309	45,006	76,216	1,316,849	29,571	198,463	275,619	333,796	364,996	309,137	203,998
Total	277,130	54,456	119,371	1,766,720	52,646	290,762	393,451	458,172	485,270	412,966	331,067

Percentage of Customers in each Segment

	African American	Asian	Hispanic	White	18-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75+ years
LIEAP/CIP	0.8%	0.0%	0.1%	1.1%	0.1%	0.4%	0.4%	0.4%	0.4%	0.3%	0.2%
<150% FPL	2.5%	0.2%	1.1%	9.9%	0.6%	2.2%	2.6%	2.6%	2.4%	2.2%	3.2%
150%-200% FPL	1.3%	0.2%	0.6%	7.6%	0.3%	1.3%	1.9%	2.1%	2.1%	1.7%	1.8%
>200%	6.9%	1.9%	3.1%	54.3%	1.2%	8.2%	11.4%	13.8%	15.0%	12.7%	8.4%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Arrearage Status

OFFICIAL COPY
Sep 26 2023

Total Numbers

	African American	Asian	Hispanic	White	18-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75+ years
Meets Arrears Definition	93,473	2,819	21,424	230,942	12,274	64,618	90,117	95,648	73,717	36,793	19,404
Does not Meet Arrears Definition	183,657	51,637	97,947	1,535,778	40,372	226,144	303,334	362,525	411,553	376,175	311,664

Percentage of Customers in each Segment

	African American	Asian	Hispanic	White	18-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75+ years
Meets Arrears Definition	3.8%	0.1%	0.9%	9.3%	0.5%	2.6%	3.6%	3.8%	3.0%	1.5%	0.8%
Does not Meet Arrears Definition	7.4%	2.1%	3.9%	61.8%	1.6%	9.1%	12.2%	14.6%	16.6%	15.1%	12.5%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

DUKE ENERGY

DNP

OFFICIAL COPY
Sep 26 2023

Total Numbers

	African American	Asian	Hispanic	White	18-24 years old	25-34 years old	35-44 years old	45-54 years old	55-64 years old	65-74 years old	75+ years old
LIEAP/CIP	3,325	-	420	3,738	425	2,297	2,147	1,604	1,314	628	291
<150% FPL	5,236	147	1,682	9,302	2042	5,731	4,968	3,966	2,542	1,380	1,462
150%-200% FPL	2,283	-	717	5687	812	2,609	2,846	2,553	1,617	841	654
>200%	11,403	559	3,289	28,401	2,744	11,002	12,037	11,582	8,113	4,099	2,225
Total	22,247	817	6,108	47,128	6,023	21,639	21,998	19,705	13,586	6,948	4,632

Percentage of Customers in that Segment DNP (i.e., Percentage of 18-24 years old customers that were DNP)

	African American	Asian	Hispanic	White	18-24 years old	25-34 years old	35-44 years old	45-54 years old	55-64 years old	65-74 years old	75+ years old
LIEAP/CIP	18.0%	-	17.9%	14.2%	26.3%	26.2%	20.5%	17.0%	12.2%	7.8%	6.6%
<150% FPL	8.8%	2.8%	6.3%	3.9%	13.7%	10.8%	8.0%	6.3%	4.3%	2.6%	1.9%
150%-200% FPL	7.2%	-	5.1%	3.1%	12.5%	8.6%	6.3%	4.9%	3.2%	2.0%	1.5%
>200%	6.8%	1.2%	4.3%	2.2%	9.3%	5.5%	4.4%	3.5%	2.2%	1.3%	1.1%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

DNP Notifications

OFFICIAL COPY
Sep 26 2023

Total Numbers

	African American	Asian	Hispanic	White	18-24 years old	25-34 years old	35-44 years old	45-54 years old	55-64 years old	65-74 years old	75+ years old
Non-DNP/DLQ	142,059	46,741	73,388	1,331,163	29,284	177,862	239,375	290,373	347,921	338,994	29,0276
10-Day Notice	135,071	7,715	45,983	435,555	23,362	112,900	154,076	167,800	137,349	73,974	40,790
24-Hour Notice	102,118	4,050	28,620	269,947	16,304	78,110	106,486	112,487	86,004	42,231	21,653
DNP	22,247	817	6108	47,128	6,023	21,639	21,998	19,705	13,586	6,948	4,632

Percentage of Customers in that Segment Received a DNP Notification (i.e., Percentage of 18-24 years old customers received a 10-Day Notice)

	African American	Asian	Hispanic	White	18-24 years old	25-34 years old	35-44 years old	45-54 years old	55-64 years old	65-74 years old	75+ years old
Non-DNP/DLQ	51.3%	85.8%	61.5%	75.3%	55.6%	61.2%	60.8%	63.4%	71.7%	82.1%	87.7%
10-Day Notice	48.7%	14.2%	38.5%	24.7%	44.4%	38.8%	39.2%	36.6%	28.3%	17.9%	12.3%
24-Hour Notice	36.8%	7.4%	24.0%	15.3%	31.0%	26.9%	27.1%	24.6%	17.7%	10.2%	6.5%
DNP	8.0%	1.5%	5.1%	2.7%	11.4%	7.4%	5.6%	4.3%	2.8%	1.7%	1.4%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Electricity Burden

OFFICIAL COPY
Sep 26 2023

Total Numbers

	African American	Asian	Hispanic	White	18-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75+ years
Electric Heat	98,444	12,677	46,895	655,327	12,964	96,126	141,467	170,500	185,412	159,655	111,768
Other Primary Fuel Sources	116,682	32,401	52,363	823,332	7,998	84,361	165,190	215,166	234,875	202,810	169,324

Percentage of Customers in each Segment

	African American	Asian	Hispanic	White	18-24 years	25-34 years	35-44 years	45-54 years	55-64 years	65-74 years	75+ years
Electric Heat	4.0%	0.5%	1.9%	26.4%	0.5%	3.9%	5.7%	6.9%	7.5%	6.4%	4.5%
Other Primary Fuel Sources	4.7%	1.3%	2.1%	33.1%	0.3%	3.4%	6.6%	8.7%	9.5%	8.2%	6.8%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

OFFICIAL COPY

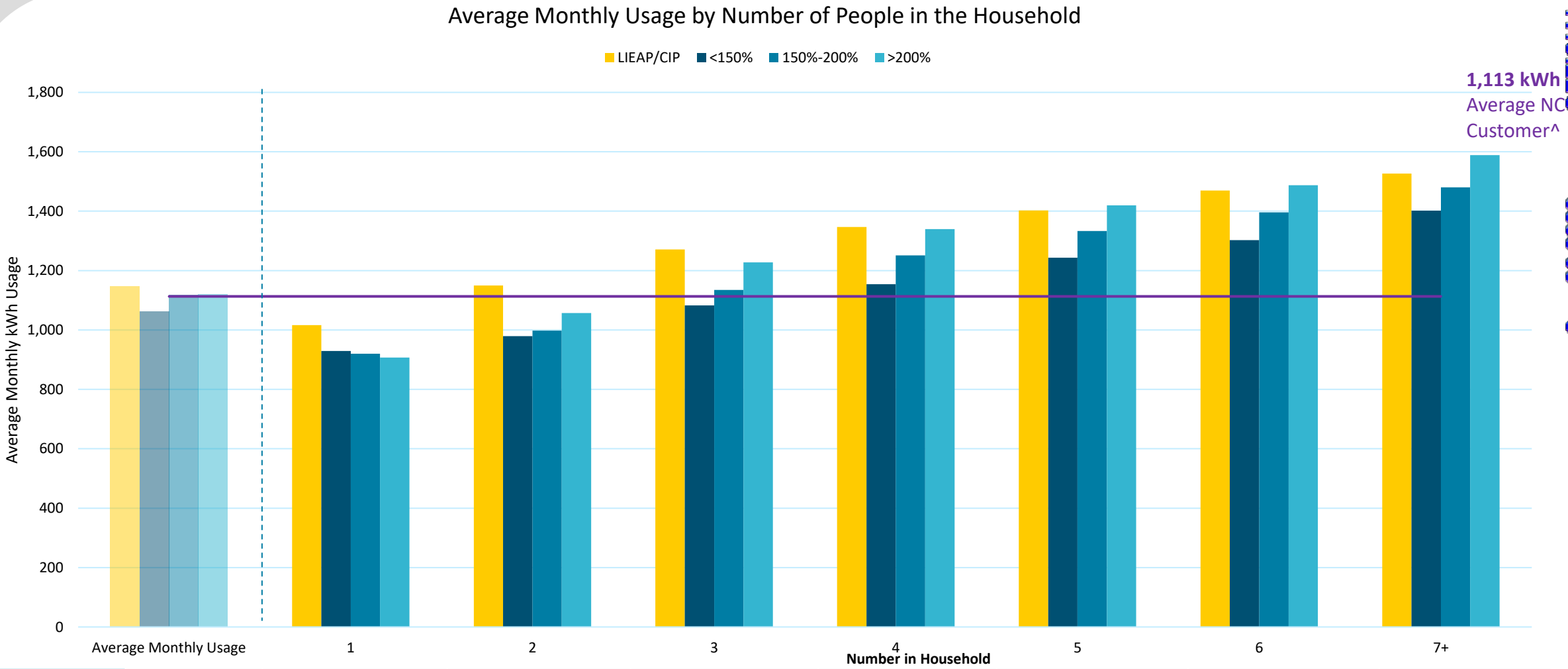
Sep 28 2023

Analysis by Number of People in the Household

Number of People in the Household: 1, 2, 3, 4, 5, 6, 7+

Average Monthly Usage by Income for Number of People in the Household

OFFICIAL COPY
Sep 28 2023



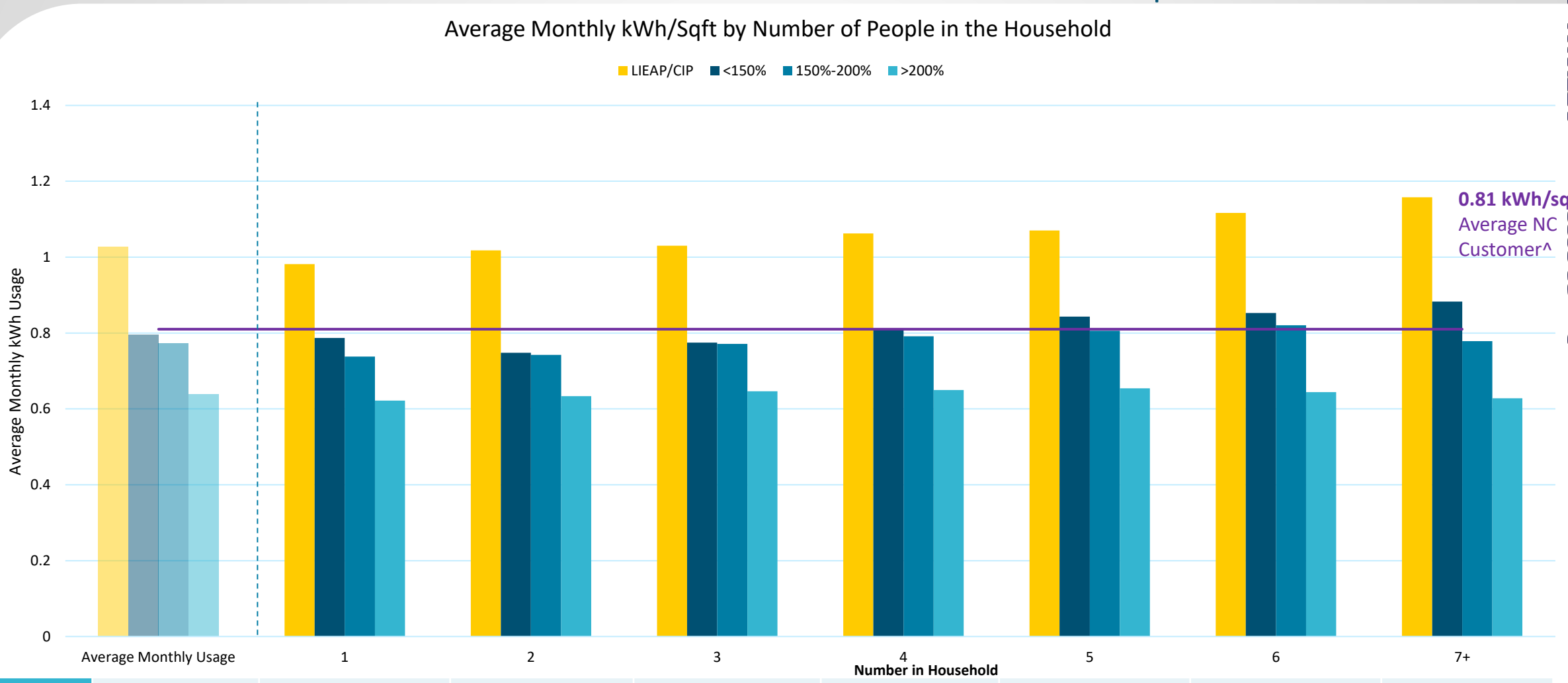
	Average Monthly Usage	1	2	3	4	5	6	7+
% Total Customers in Category*	98%	25%	29%	22%	12%	6%	3%	1%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage per Square Foot by Income for Number of People in the Household

OFFICIAL COPY
Sep 28 2023



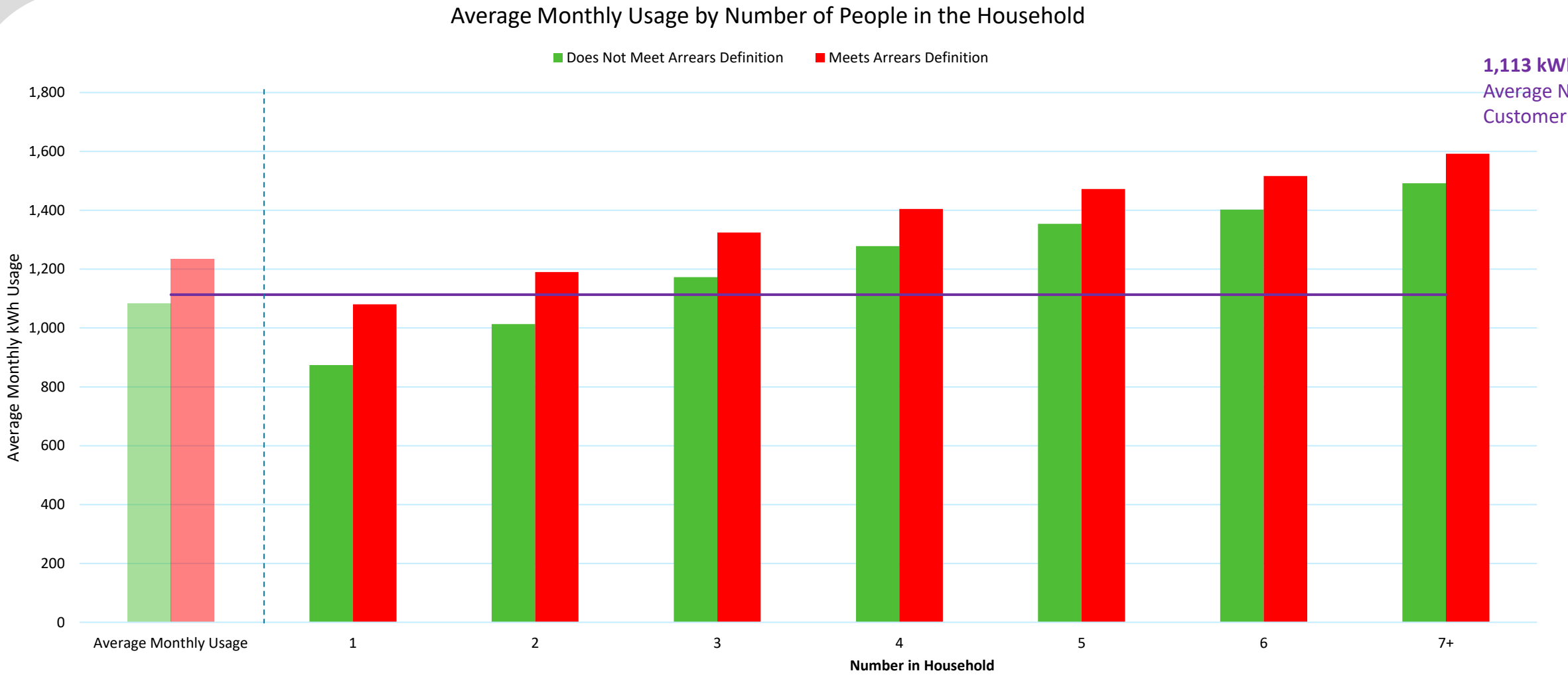
	Average Monthly Usage	1	2	3	4	5	6	7+
% Total Customers in Category*	98%	25%	29%	22%	12%	6%	3%	1%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage by Arrearage Status for Number of People in the Household

OFFICIAL COPY
Sep 28 2023



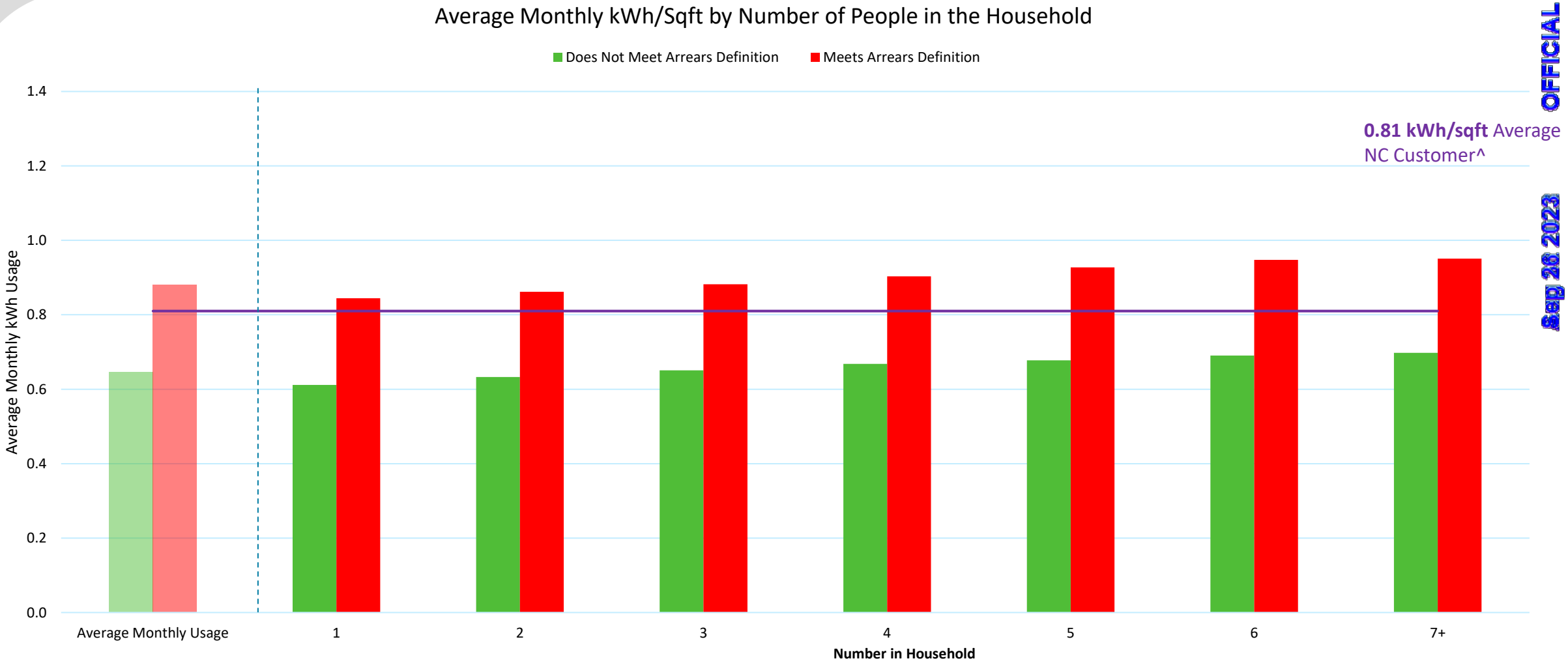
% Total Customers in Category*	100%	25%	29%	22%	12%	6%	3%	1%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage per Square Foot by Arrearage Status for Number of People in the Household

OFFICIAL COPY
Sep 28 2023



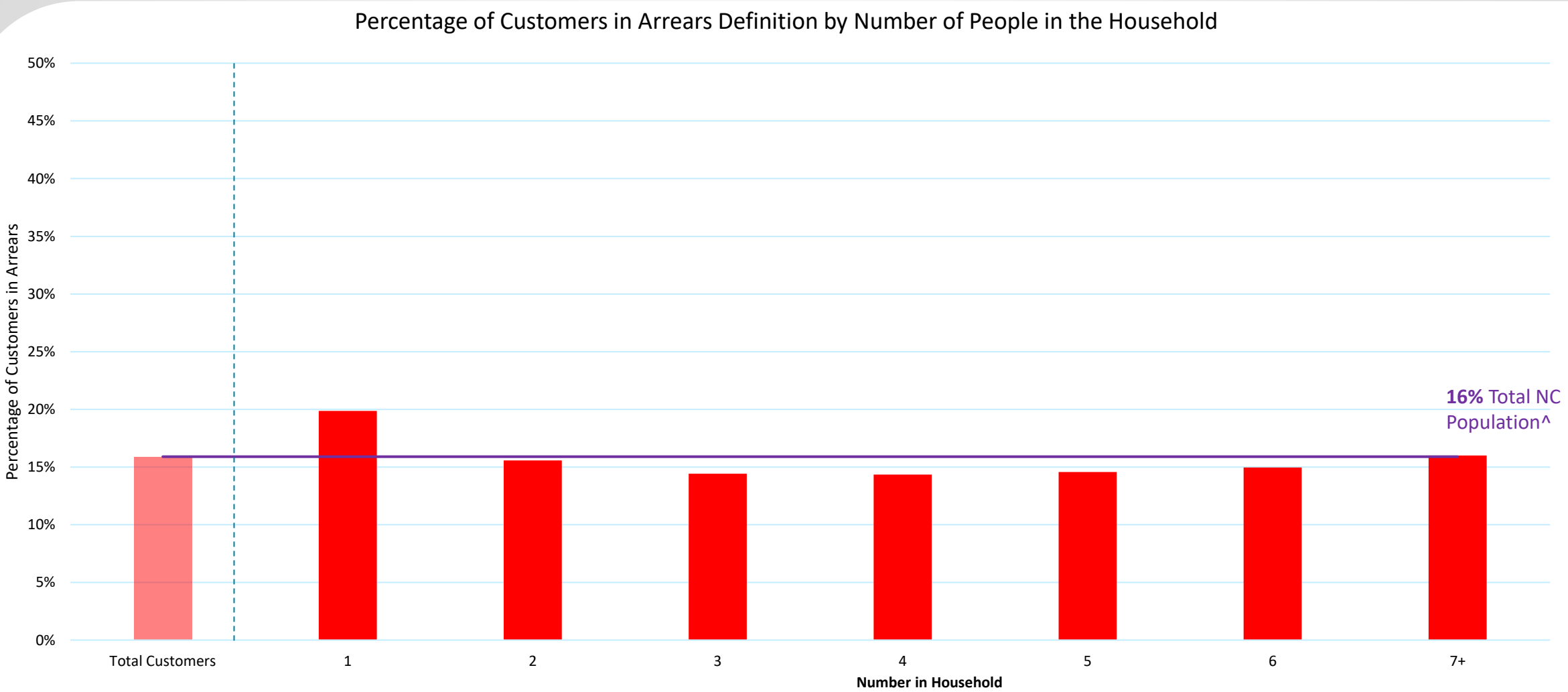
% Total Customers in Category*	100%	25%	29%	22%	12%	6%	3%	1%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Percentage of Customers in Arrears Definition for Number of People in the Household

OFFICIAL COPY
Sep 28 2023



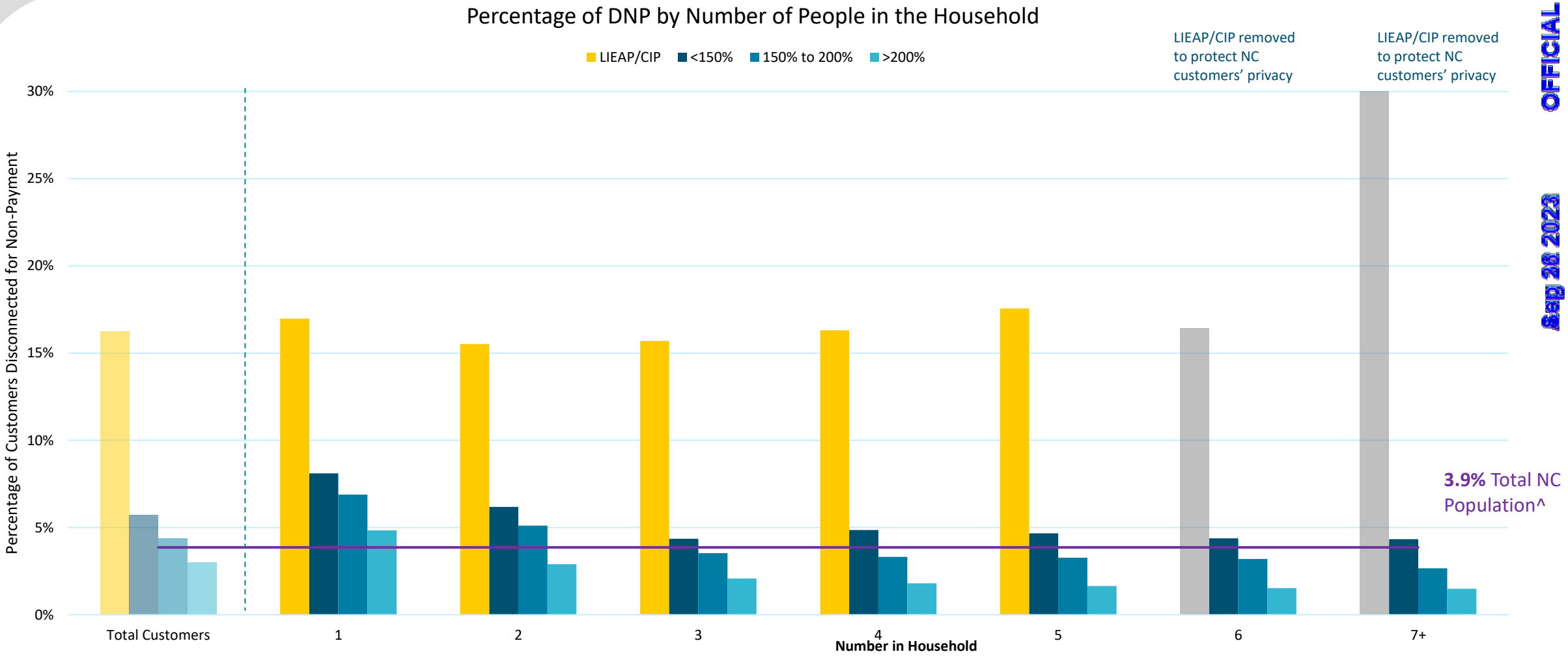
	Total Customers	1	2	3	4	5	6	7+
% Total Customers in Category*	100%	25%	29%	22%	12%	6%	3%	1%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The total line includes customers who could not be categorized, therefore there may be instances of all groups above the total

Percentage of DNP by Income for Number of People in the Household

OFFICIAL COPY
Sep 28 2023

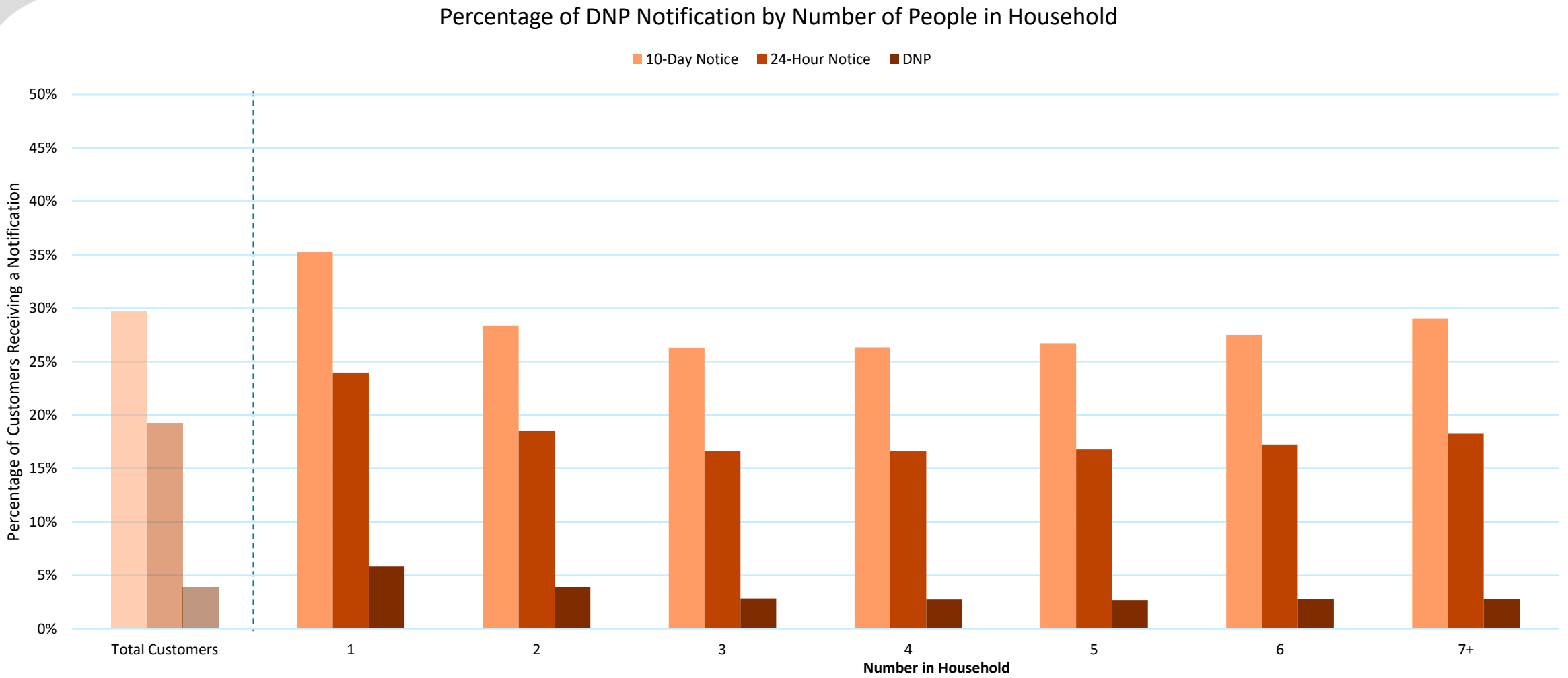


	Total Customers	1	2	3	4	5	6	7+
% Total Customers in Category*	98%	25%	29%	22%	12%	6%	3%	1%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The total line includes customers who could not be categorized, therefore there may be instances of all groups above the total

Percentage of DNP Notifications by Notification Type for Number of People in the Household

OFFICIAL COPY
Sep 28 2023

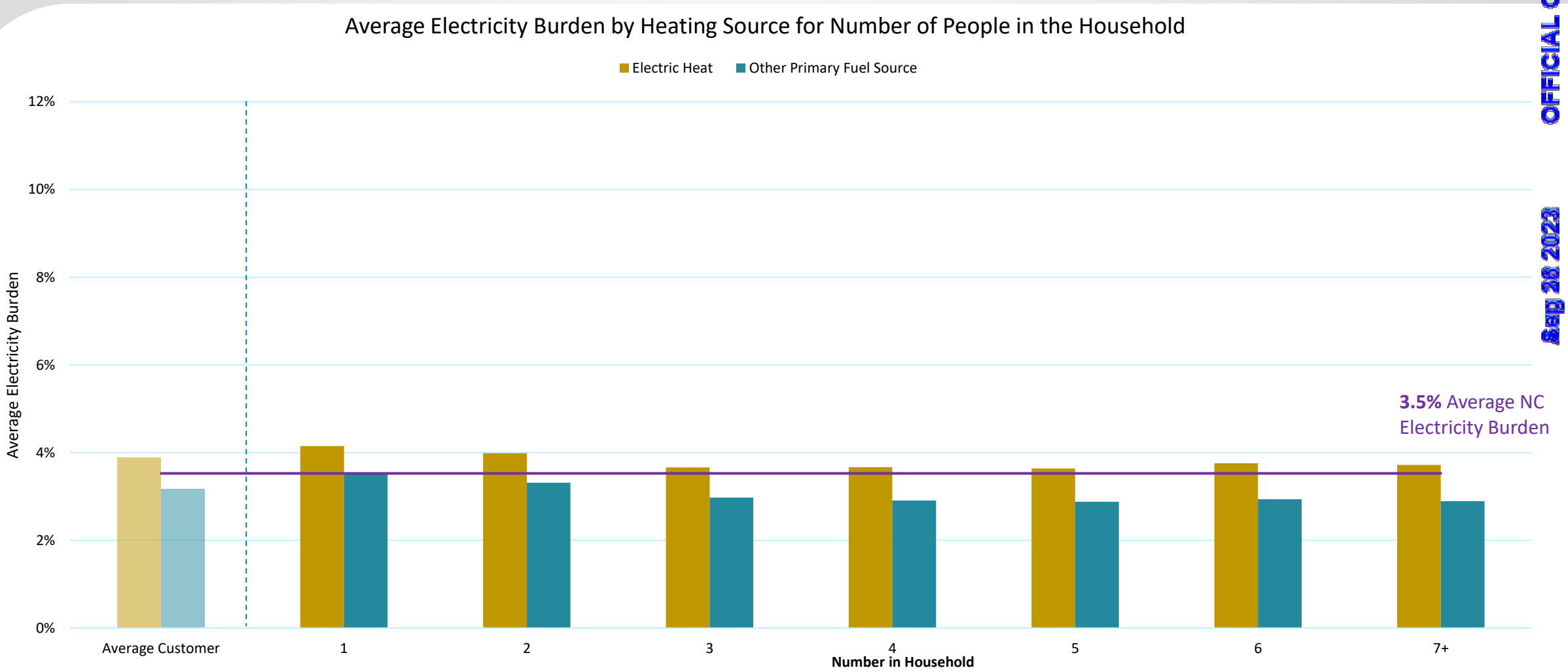


% Total Customers in Category*	98%	25%	29%	22%	12%	6%	3%	1%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

Average Electricity Burden by Heating Source for Number of People in the Household

OFFICIAL COPY
Sep 28 2023



% Total Customers in Category*	79%	25%	29%	22%	12%	6%	3%	1%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The total line includes customers who could not be categorized, therefore there may be instances of all groups above the total

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Income Level

OFFICIAL COPY
Sep 28 2023

Total Numbers	1	2	3	4	5	6	7+
LIEAP/CIP	21,430	16,234	8,759	3,955	1,805	865	474
<150% FPL	81,114	106,919	91,606	43,273	30,440	20,783	11,204
150%-200% FPL	37,590	85,572	55,531	55,592	20,083	9,074	7,990
>200%	475,987	506,518	390,254	193,028	95,313	38,548	17,308
Total	616,121	715,243	546,150	295,848	147,641	69,270	36,976

Percentage of Customers in each Segment	1	2	3	4	5	6	7+
LIEAP/CIP	0.9%	0.7%	0.4%	0.2%	0.1%	0.0%	0.0%
<150% FPL	3.3%	4.4%	3.8%	1.8%	1.3%	0.9%	0.5%
150%-200% FPL	1.5%	3.5%	2.3%	2.3%	0.8%	0.4%	0.3%
>200%	19.6%	20.9%	16.1%	8.0%	3.9%	1.6%	0.7%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Arrearage Status

OFFICIAL COPY
Sep 28 2023

Total Numbers	1	2	3	4	5	6	7+
Meets Arrears Definition	122,457	111,342	78,781	42,469	21,501	10,363	5,920
Does not Meet Arrears Definition	493,664	603,901	467,369	253,379	126,140	58,907	31,056

Percentage of Customers in each Segment	1	2	3	4	5	6	7+
Meets Arrears Definition	4.9%	4.5%	3.2%	1.7%	0.9%	0.4%	0.2%
Does not Meet Arrears Definition	19.9%	24.3%	18.8%	10.2%	5.1%	2.4%	1.2%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

DUKE ENERGY

DNP

OFFICIAL COPY
Sep 26 2023

Total Number of Customers in each Segment							
	1	2	3	4	5	6	7+
LIEAP/CIP	3,637	2,520	1,375	645	317	142	-
<150% FPL	6,578	6,616	3,993	2,104	1,420	912	486
150%-200% FPL	25,88	4,379	1,967	1,844	658	291	213
>200%	23,029	14,736	8,131	3,494	1,577	592	258
Total	358,32	28,251	15,466	8,087	3,972	1,937	-

Percentage of Customers in that Segment DNP (i.e., Percentage of 2 people household customers that were DNP)							
	1	2	3	4	5	6	7+
LIEAP/CIP	17.0%	15.5%	15.7%	16.3%	17.6%	16.4%	-
<150% FPL	8.1%	6.2%	4.4%	4.9%	4.7%	4.4%	4.3%
150%-200% FPL	6.9%	5.1%	3.5%	3.3%	3.3%	3.2%	2.7%
>200%	4.8%	2.9%	2.1%	1.8%	1.7%	1.5%	1.5%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

DNP Notifications

OFFICIAL COPY
Sep 28 2023

Total Number of Customers in each Segment	1	2	3	4	5	6	7+
Non-DNP/DLQ	399,035	512,264	402,466	217,979	108,189	50,228	26,242
10-Day Notice	217,086	202,978	143,684	77,869	39,451	19,042	10,734
24-Hour Notice	147,737	132,337	90,940	49,098	24,785	11,950	6,757
DNP	35,832	28,251	15,466	8,087	3,972	1,937	-

Percentage of Customers in that Segment Received a DNP Notification (i.e., Percentage of 2 people household customers that received a 10-Day Notice)	1	2	3	4	5	6	7+
Non-DNP/DLQ	64.8%	71.6%	73.7%	73.7%	73.3%	72.5%	71.0%
10-Day Notice	35.2%	28.4%	26.3%	26.3%	26.7%	27.5%	29.0%
24-Hour Notice	24.0%	18.5%	16.7%	16.6%	16.8%	17.3%	18.3%
DNP	5.8%	3.9%	2.8%	2.7%	2.7%	2.8%	-

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Electricity Burden

OFFICIAL COPY
Sep 28 2023

Total Numbers	1	2	3	4	5	6	7+
Electric Heat	222,442	254,231	198,759	109,163	54,727	25,528	13,452
Other Primary Fuel Source	227,146	314,288	265,199	146,943	74,321	34,974	18,782

Percentage of Customers in each Segment	1	2	3	4	5	6	7+
Electric Heat	9.0%	10.2%	8.0%	4.4%	2.2%	1.0%	0.5%
Other Primary Fuel Source	9.1%	12.6%	10.7%	5.9%	3.0%	1.4%	0.8%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

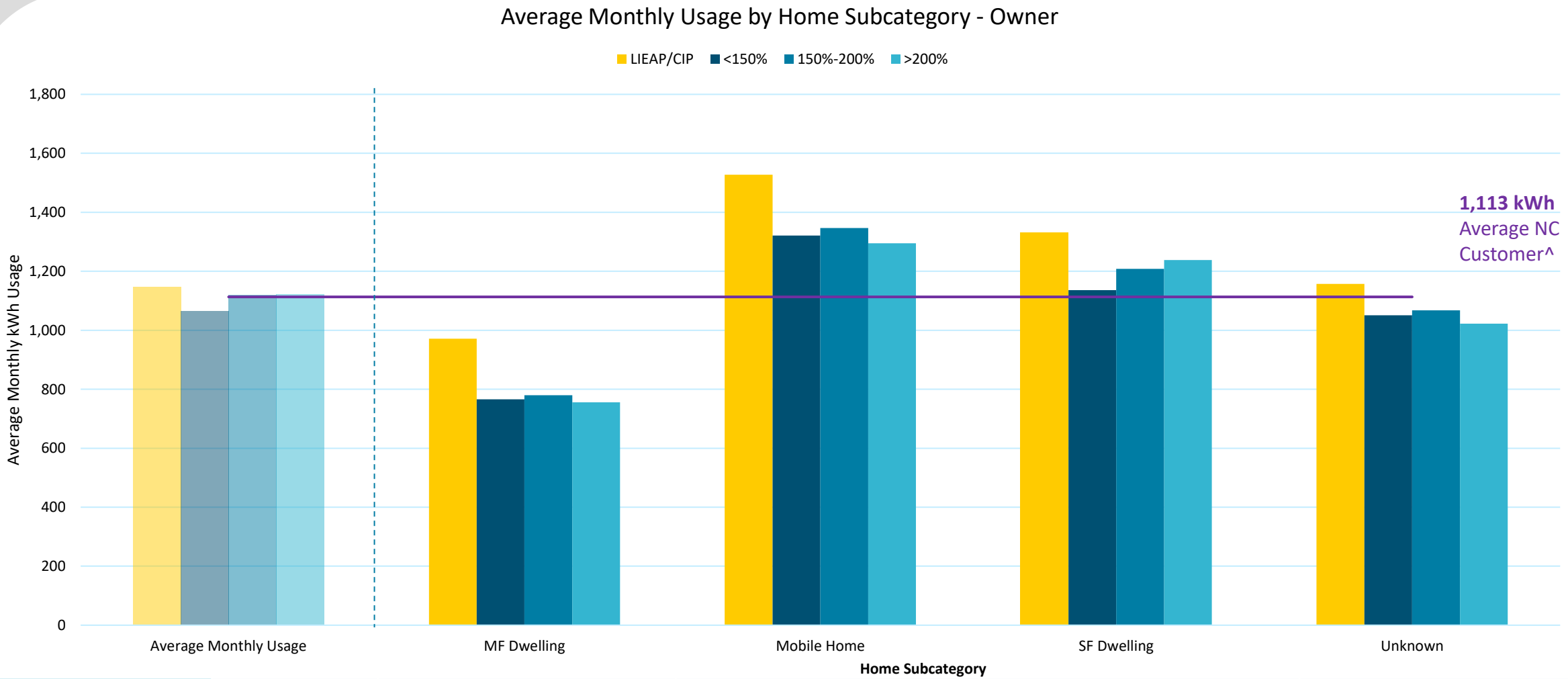
OFFICIAL COPY
Sep 28 2023

Analysis by Home Subcategory – Owner

Home Subcategory: Condo, Mobile Home, Multi-Family Miscellaneous, Single Family Dwelling, Unknown

Average Monthly Usage by Income for Home Subcategory – Owner

OFFICIAL COPY
Sep 28 2023

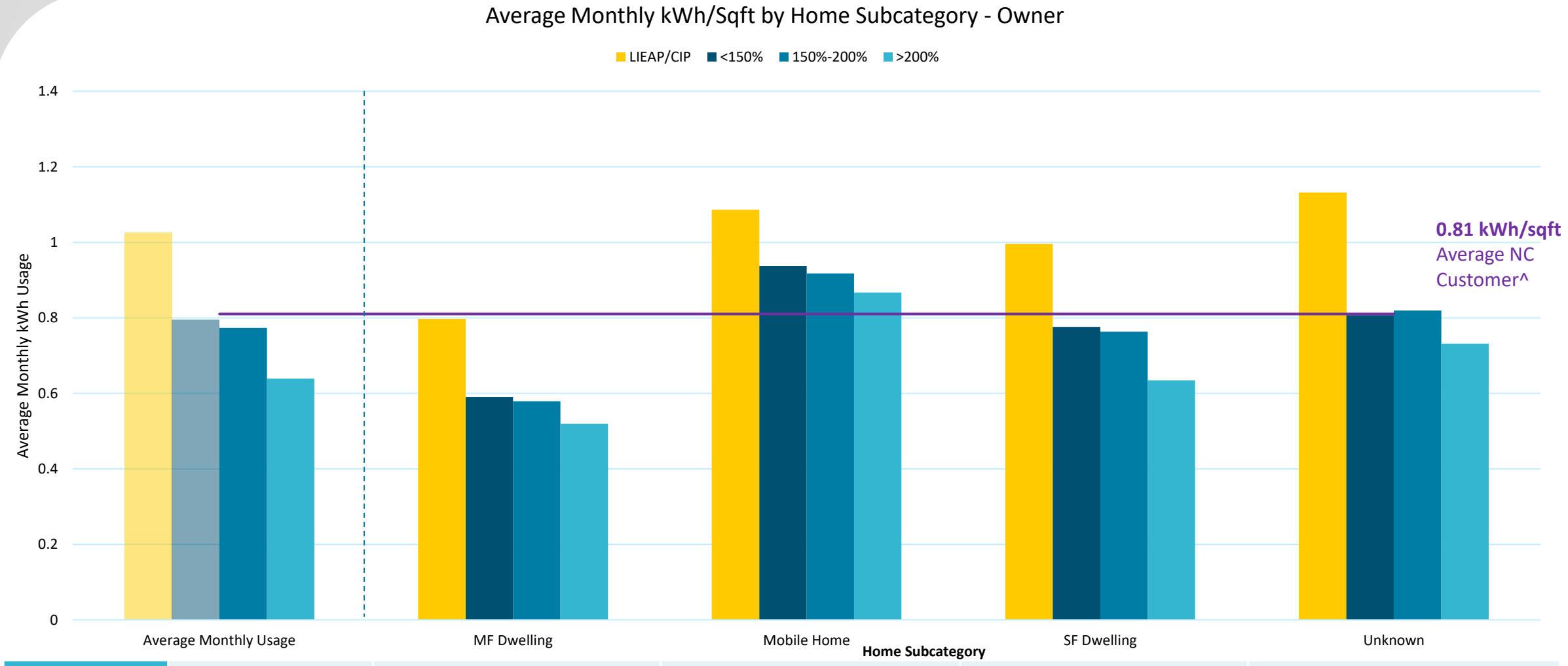


% Total Customers in Category*	73%	3%	2%	51%	16%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage per Square Foot by Income for Home Subcategory – Owner

OFFICIAL COPY
Sep 28 2023



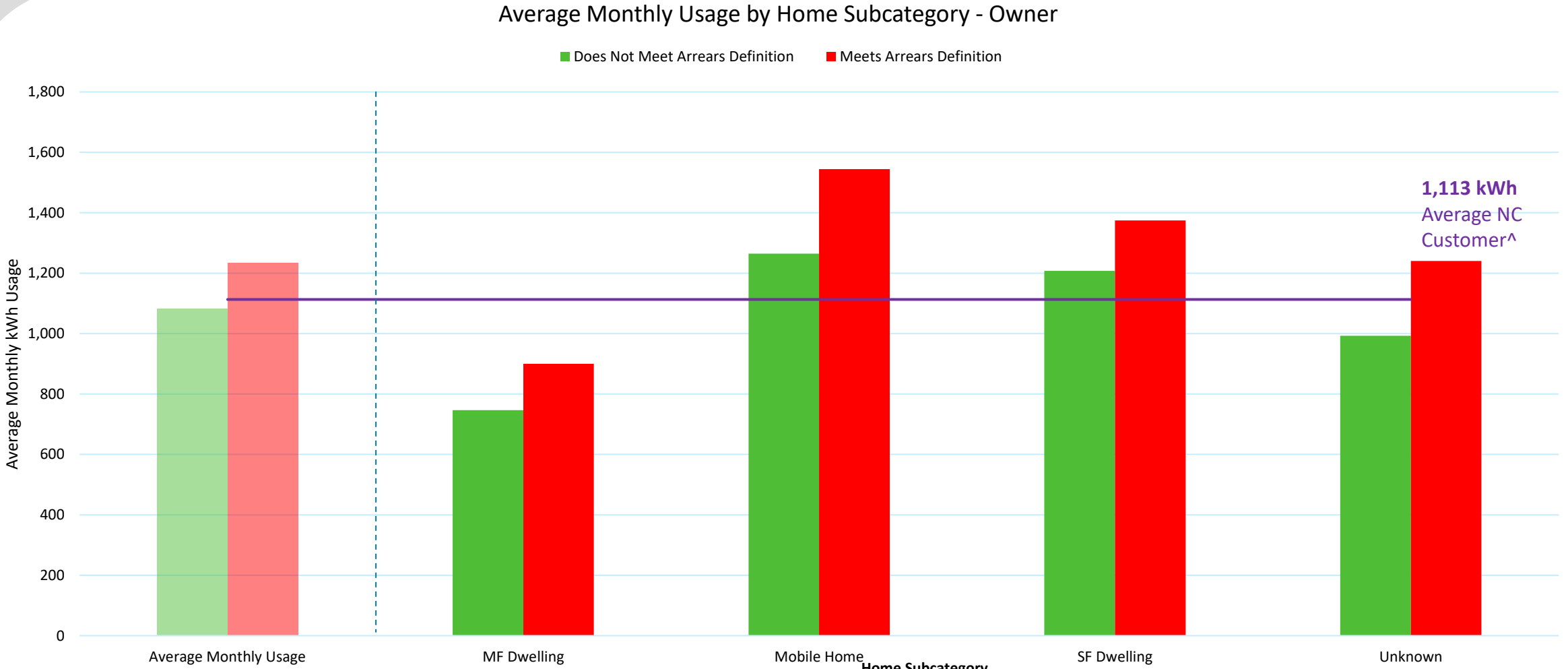
	Average Monthly Usage	MF Dwelling	Mobile Home	SF Dwelling	Unknown
% Total Customers in Category*	73%	3%	2%	51%	16%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage by Arrearage Status for Home Subcategory – Owner

OFFICIAL COPY
Sep 28 2023

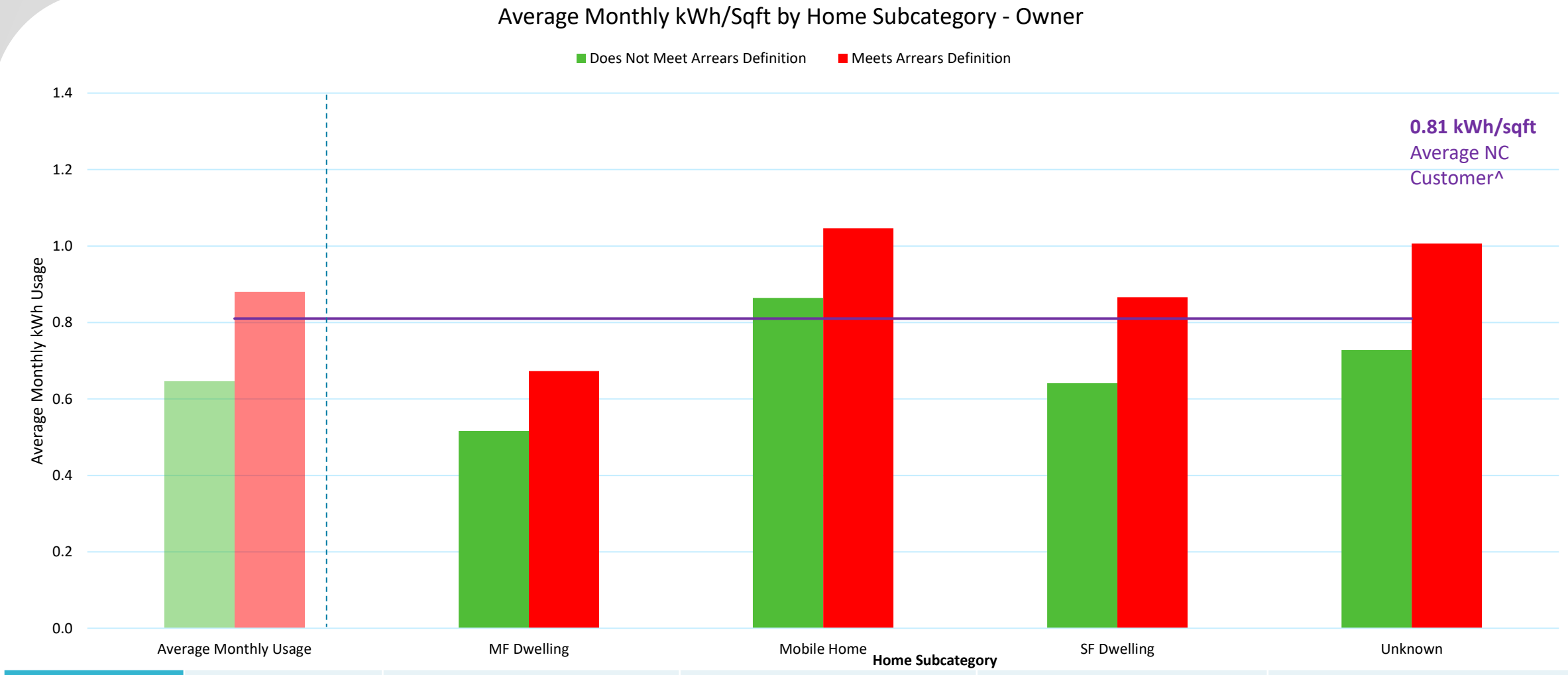


	Average Monthly Usage	MF Dwelling	Mobile Home	SF Dwelling	Unknown
% Total Customers in Category*	73%	3%	2%	51%	16%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage per Square Foot by Arrearage Status for Home Subcategory – Owner

OFFICIAL COPY
Sep 28 2023

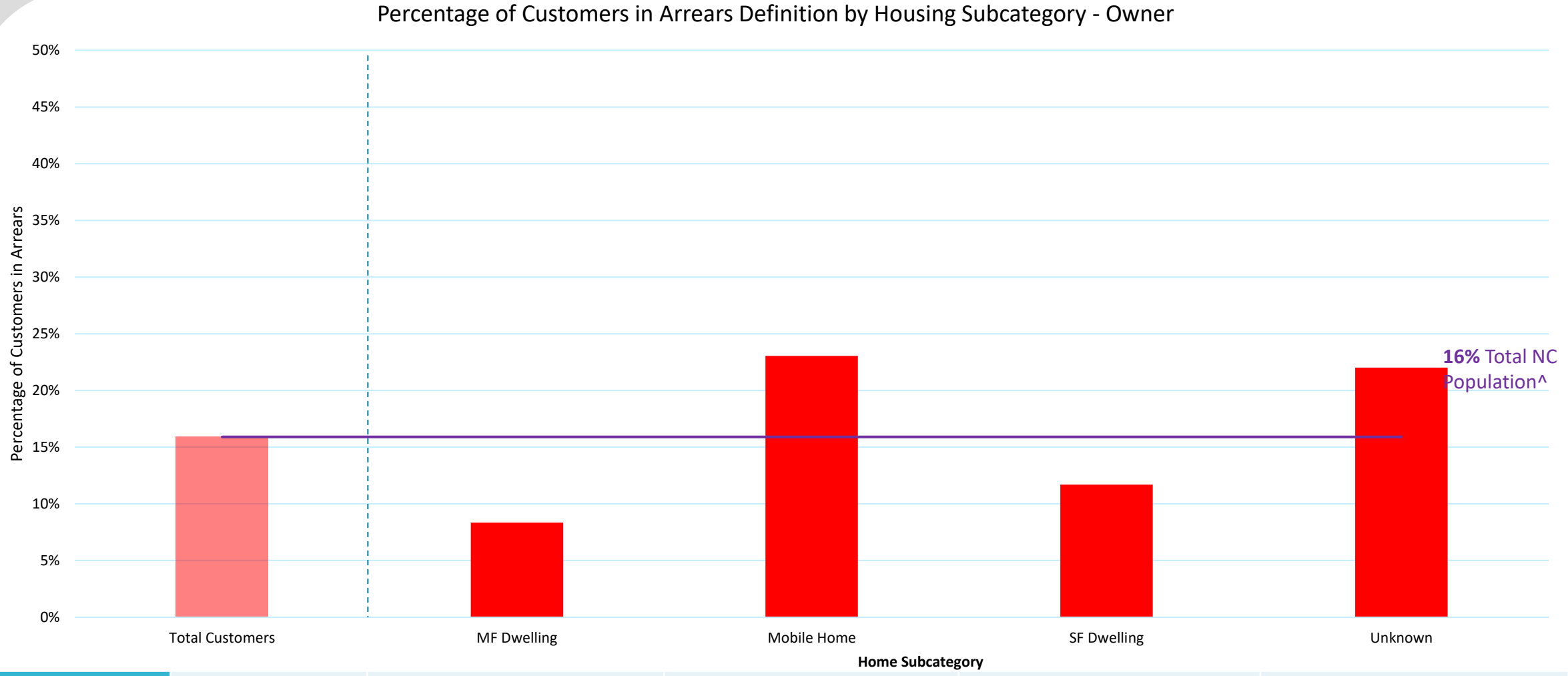


	Average Monthly Usage	MF Dwelling	Mobile Home	SF Dwelling	Unknown
% Total Customers in Category*	73%	3%	2%	51%	16%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Percentage of Customers in Arrears Definition for Home Subcategory – Owner

OFFICIAL COPY
Sep 28 2023

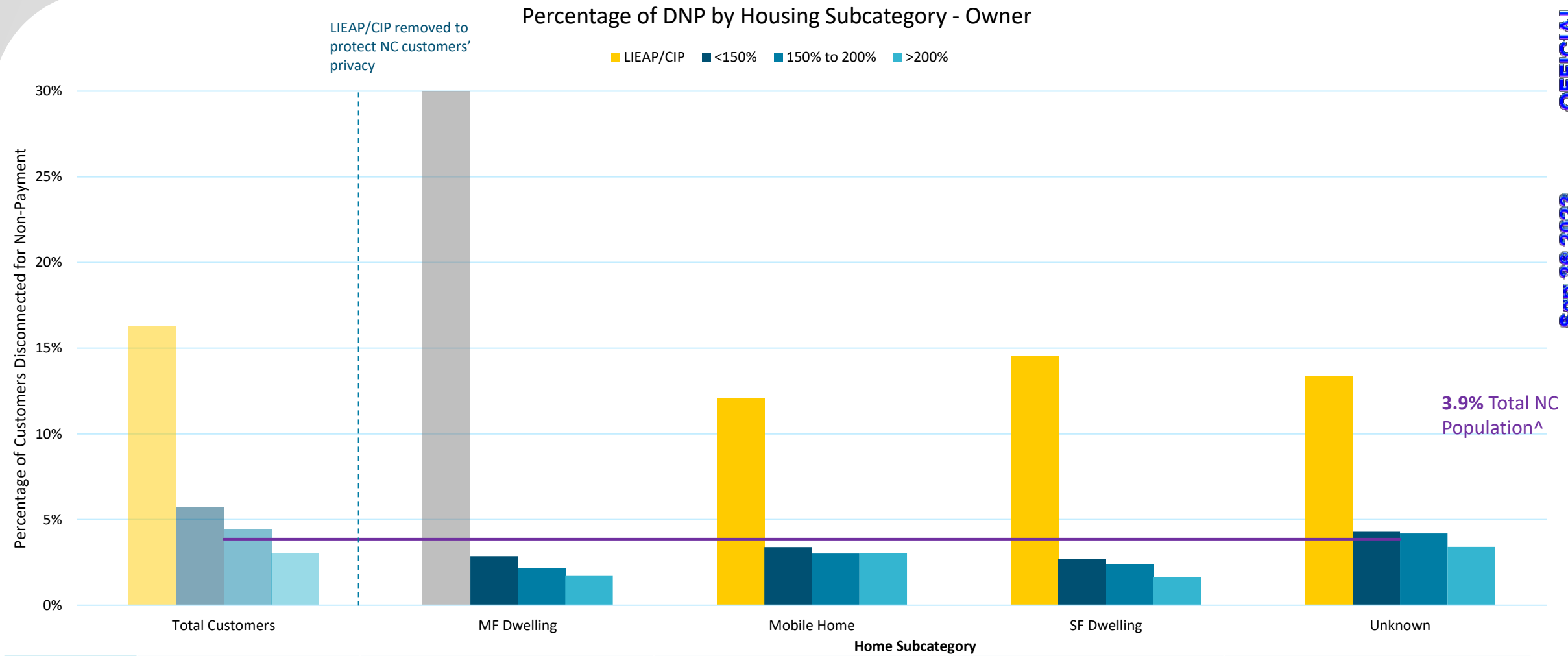


	Total Customers	MF Dwelling	Mobile Home	SF Dwelling	Unknown
% Total Customers in Category*	73%	3%	2%	51%	16%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Percentage of DNP by Income for Home Subcategory – Owner

OFFICIAL COPY
Sep 28 2023

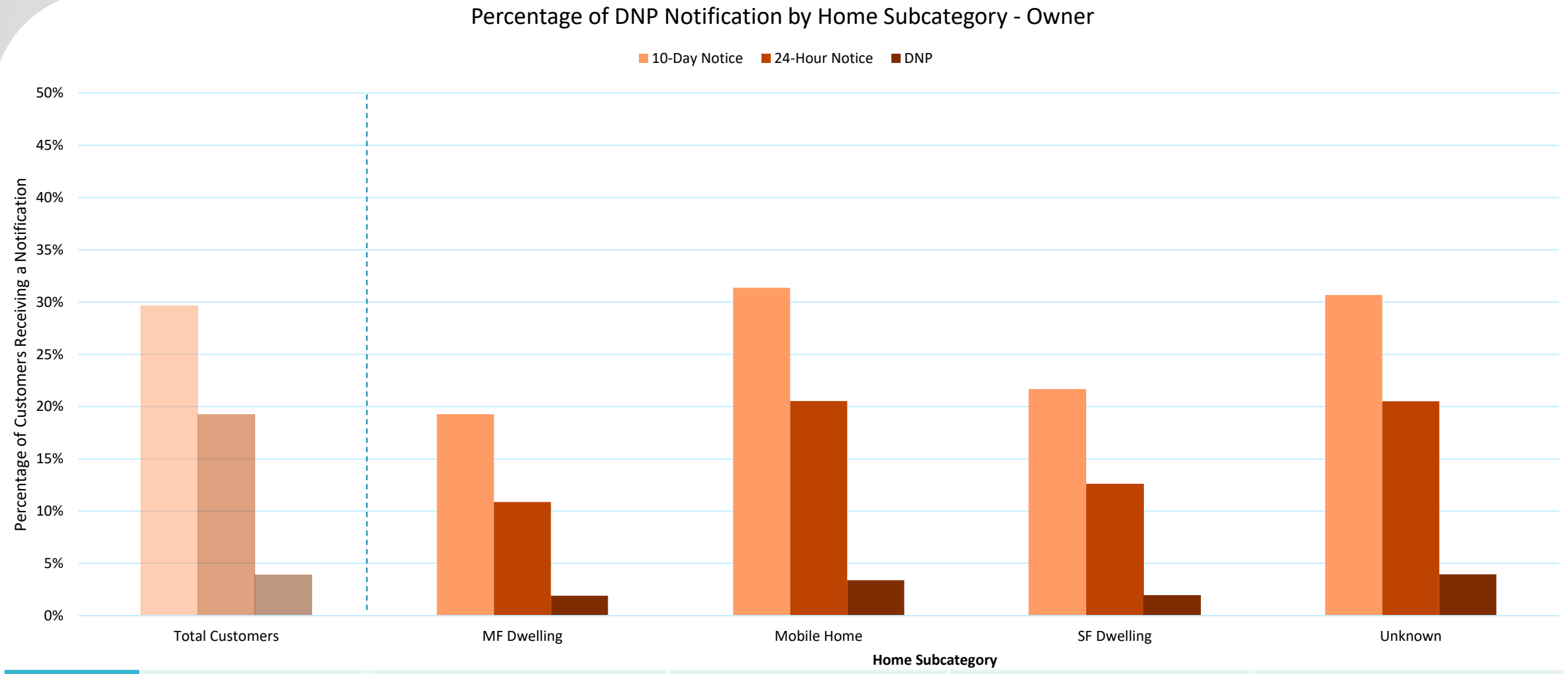


	Total Customers	MF Dwelling	Mobile Home	SF Dwelling	Unknown
% Total Customers in Category*	73%	3%	2%	51%	16%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Percentage of DNP Notifications by Notification Type for Home Subcategory – Owner

OFFICIAL COPY
Sep 28 2023

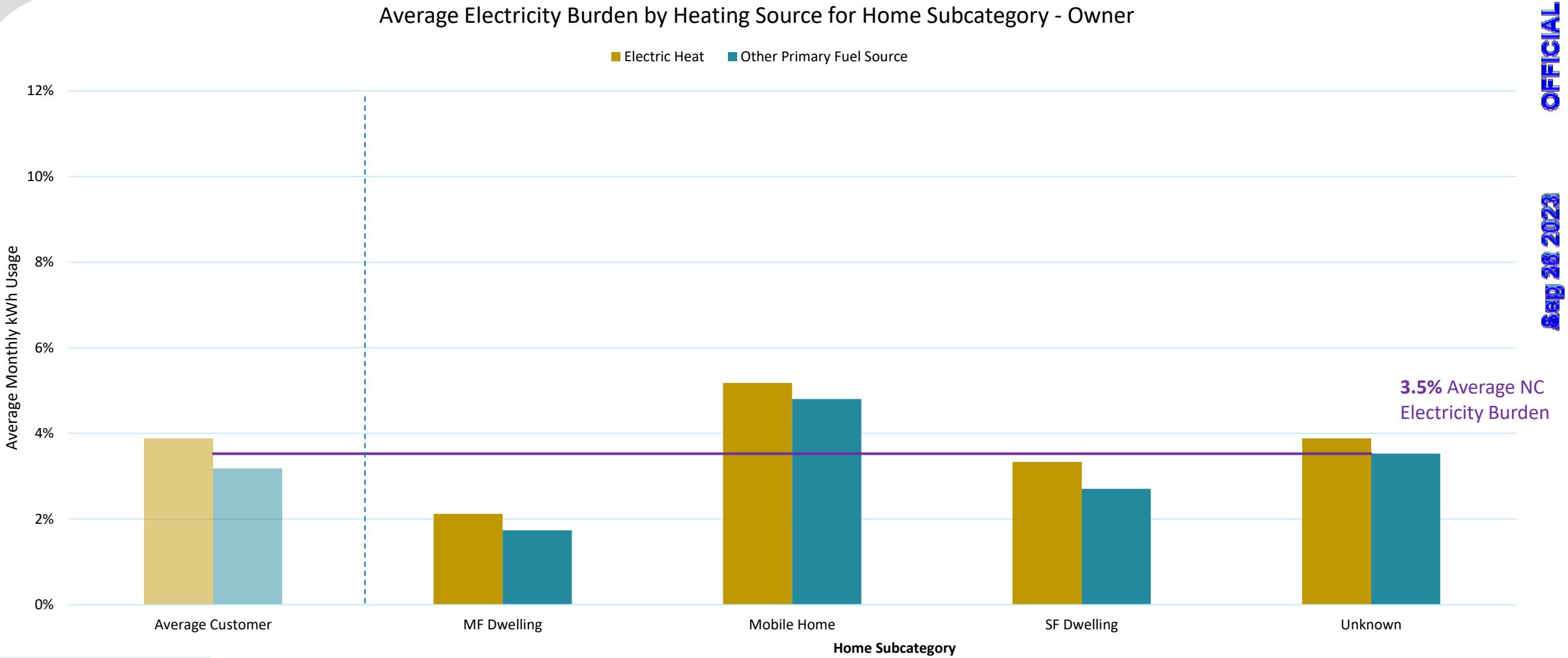


	Total Customers	MF Dwelling	Mobile Home	SF Dwelling	Unknown
% Total Customers in Category*	73%	3%	2%	51%	16%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

Average Electricity Burden by Heating Source for Home Subcategory – Owner

OFFICIAL COPY
Sep 28 2023



	Average Customer	MF Dwelling	Mobile Home	SF Dwelling	Unknown
% Total Customers in Category*	79%	3%	2%	51%	16%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Income Level

OFFICIAL COPY
Sep 26 2023

Total Numbers	MF Dwelling	Mobile Home	SF Dwelling	Unknown
LIEAP/CIP	311	1,495	8,025	11,595
<150% FPL	5,528	12,310	136,063	72,113
150%-200% FPL	5,840	9,063	126,367	56,713
>200%	71,915	28,665	990,264	265,464
Total	83,594	51,533	1,260,719	405,885

Percentage of Customers in each Segment	MF Dwelling	Mobile Home	SF Dwelling	Unknown
LIEAP/CIP	0.0%	0.1%	0.3%	0.5%
<150% FPL	0.2%	0.5%	5.6%	3.0%
150%-200% FPL	0.2%	0.4%	5.2%	2.3%
>200%	3.0%	1.2%	40.8%	10.9%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Arrearage Status

OFFICIAL COPY
Sep 28 2023

Total Numbers	MF Dwelling	Mobile Home	SF Dwelling	Unknown
Meets Arrears Definition	76,625	9,653	131,912	73,257
Does not Meet Arrears Definition	6,969	41,880	1,128,807	332,628

Percentage of Customers in each Segment	MF Dwelling	Mobile Home	SF Dwelling	Unknown
Meets Arrears Definition	3.1%	0.4%	5.3%	2.9%
Does not Meet Arrears Definition	0.3%	1.7%	45.4%	13.4%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

DUKE ENERGY

DNP

OFFICIAL COPY
Sep 26 2023

Total Number of Customers in each Segment				
	MF Dwelling	Mobile Home	SF Dwelling	Unknown
LIEAP/CIP	-	181	1,167	1,554
<150% FPL	158	417	3,653	3,091
150%-200% FPL	126	273	3,027	2,380
>200%	1,252	876	16,086	9,035
Total	-	1,747	23,933	16,060

Percentage of Customers in that Segment DNP (i.e., Percentage of mobile homes that were DNP)				
	MF Dwelling	Mobile Home	SF Dwelling	Unknown
LIEAP/CIP	-	12.1%	14.5%	13.4%
<150% FPL	3%	3.4%	2.7%	4.3%
150%-200% FPL	2%	3.0%	2.4%	4.2%
>200%	2%	3.1%	1.6%	3.4%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

DNP Notifications

OFFICIAL COPY
Sep 28 2023

Total Number of Customers in each Segment				
	MF Dwelling	Mobile Home	SF Dwelling	Unknown
Non-DNP/DLQ	67,475	35,366	988,085	281,364
10-Day Notice	16,119	16,166	272,634	124,520
24-Hour Notice	9,098	10,578	158,271	83,250
DNP	-	1,747	23,933	16,060

Percentage of Customers in that Segment DNP Received a DNP Notification (i.e., Percentage of mobile homes that received 10-Day Notice)				
	MF Dwelling	Mobile Home	SF Dwelling	Unknown
Non-DNP/DLQ	80.7%	68.6%	78.4%	69.3%
10-Day Notice	19.3%	31.4%	21.6%	30.7%
24-Hour Notice	10.9%	20.5%	12.6%	20.5%
DNP	-	3.4%	1.9%	4.0%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Electricity Burden

OFFICIAL COPY
Sep 26 2023

Total Numbers	MF Dwelling	Mobile Home	SF Dwelling	Unknown
Electric Heat	29,631	34,432	429,189	157,256
Other Primary Fuel Source	38,752	12,765	681,680	170,050

Percentage of Customers in each Segment	MF Dwelling	Mobile Home	SF Dwelling	Unknown
Electric Heat	1.2%	1.4%	17.3%	6.3%
Other Primary Fuel Source	1.6%	0.5%	27.4%	6.8%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

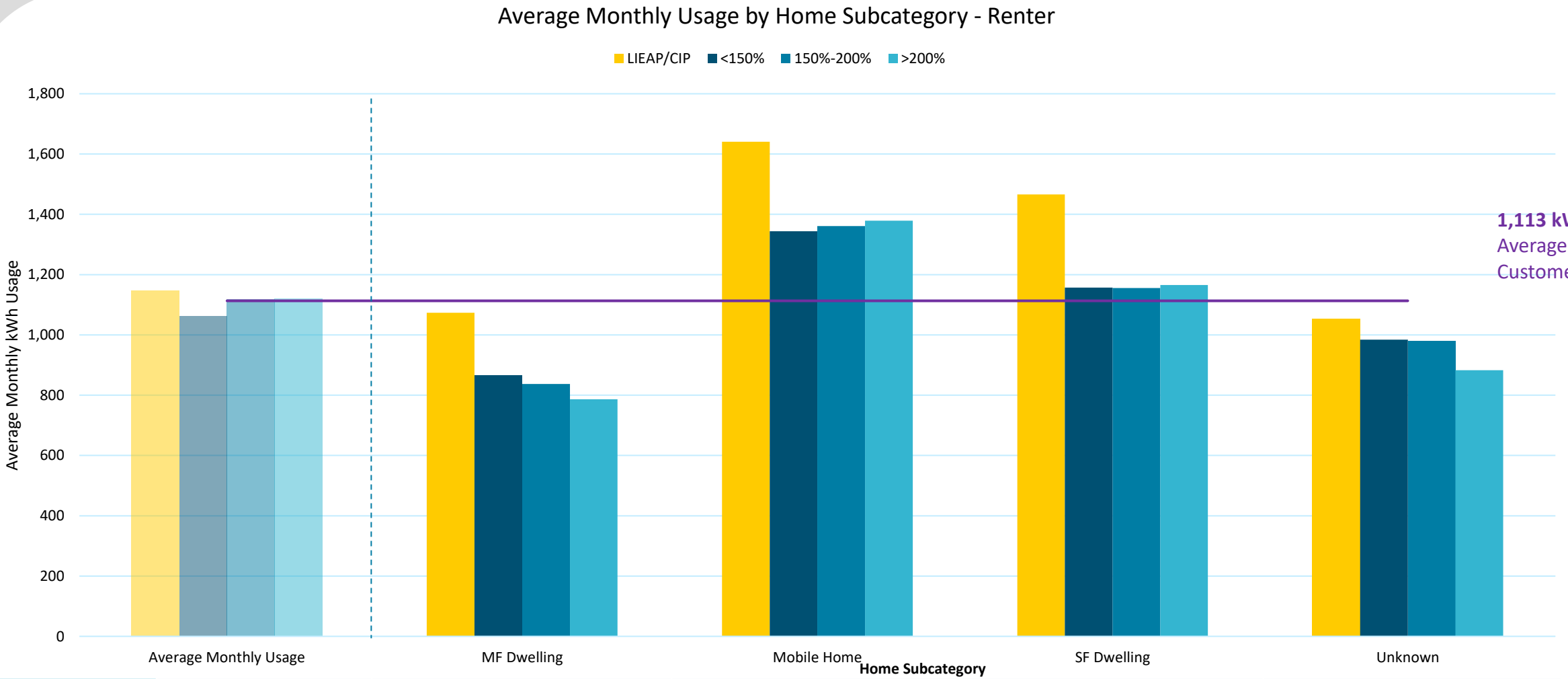
OFFICIAL COPY
Sep 28 2023

Analysis by Home Subcategory – Renter

Home Subcategory: Condo, Mobile Home, Multi-Family Miscellaneous, Single Family Dwelling, Unknown

Average Monthly Usage by Income for Home Subcategory – Renter

OFFICIAL COPY
Sep 26 2023

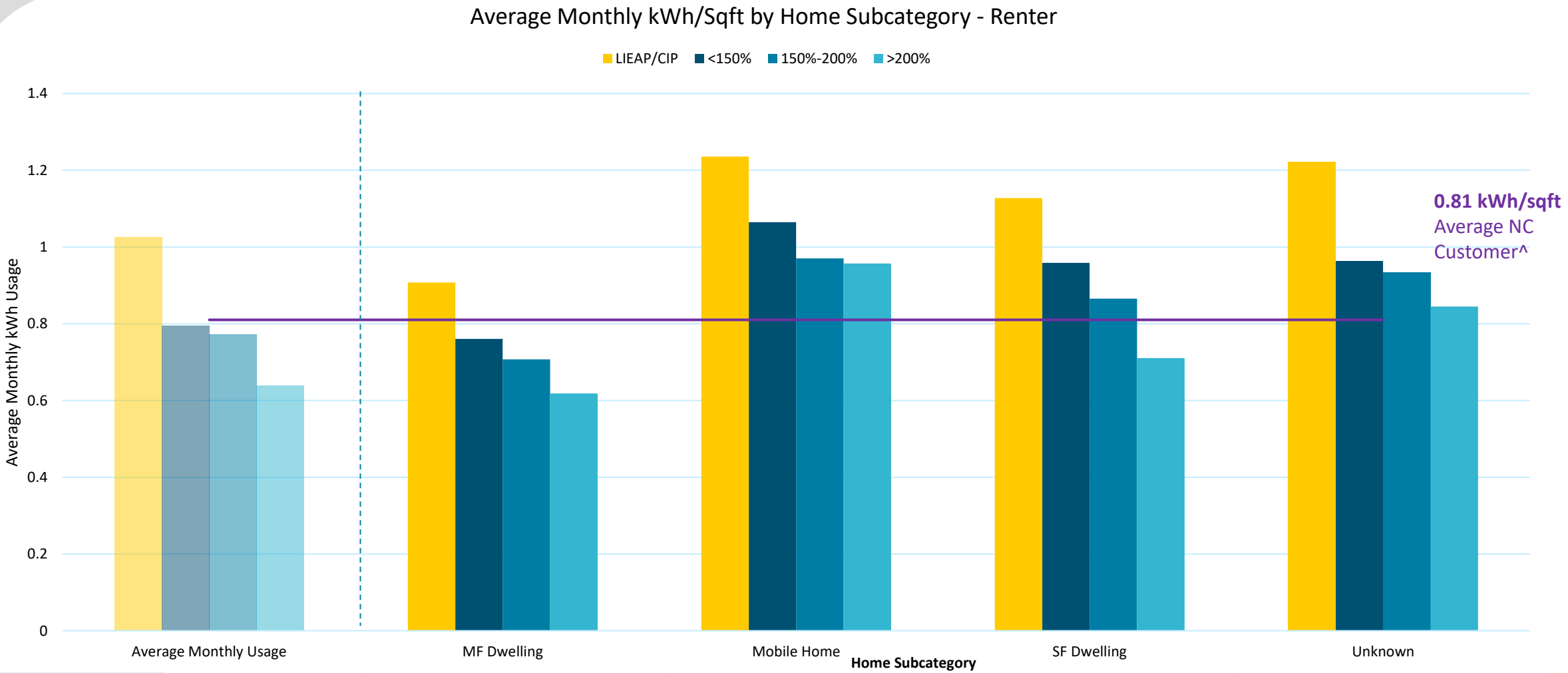


	Average Monthly Usage	MF Dwelling	Mobile Home	SF Dwelling	Unknown
% Total Customers in Category*	25%	0.5%	0.2%	3%	21%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage per Square Foot by Income for Home Subcategory – Renter

OFFICIAL COPY
Sep 28 2023



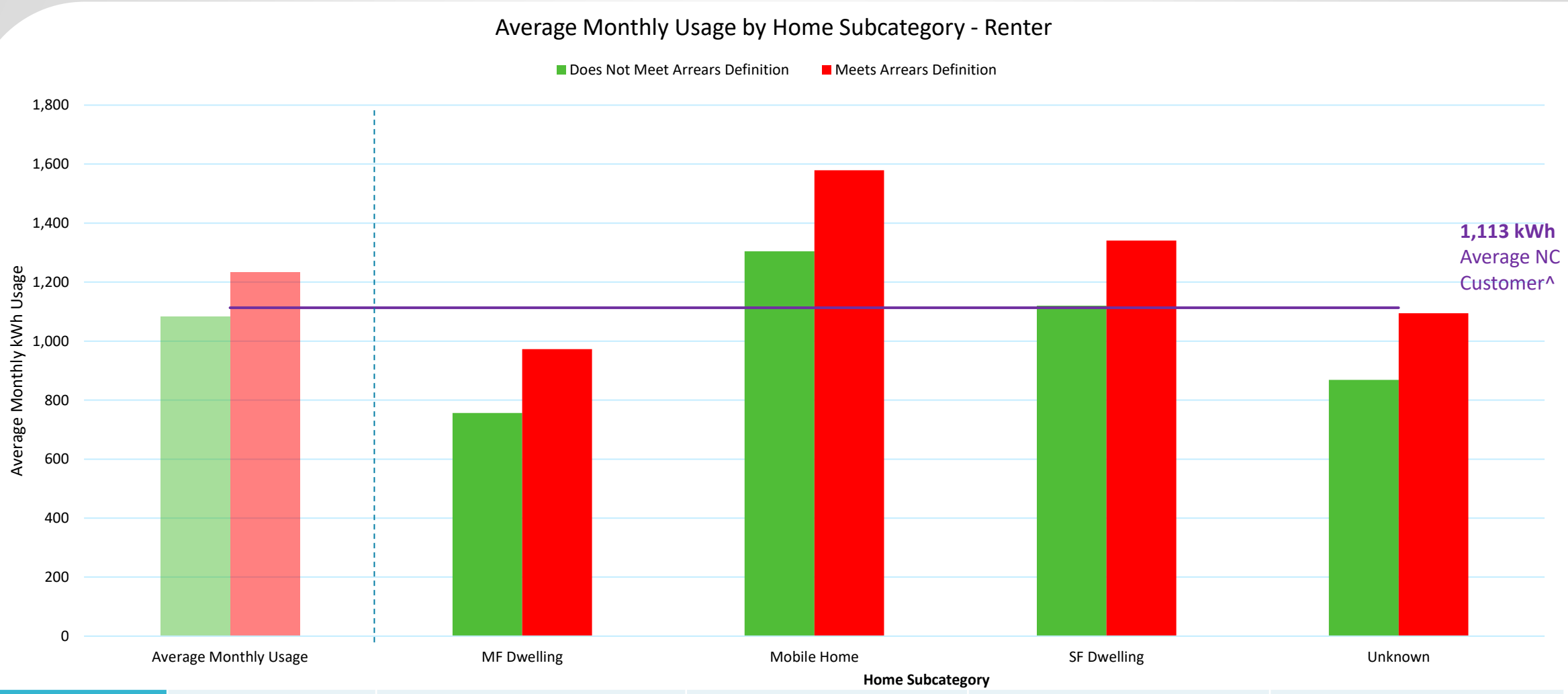
	Average Monthly Usage	MF Dwelling	Mobile Home	SF Dwelling	Unknown
% Total Customers in Category*	25%	0.5%	0.2%	3%	21%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage by Arrearage Status for Home Subcategory – Renter

OFFICIAL COPY
Sep 28 2023



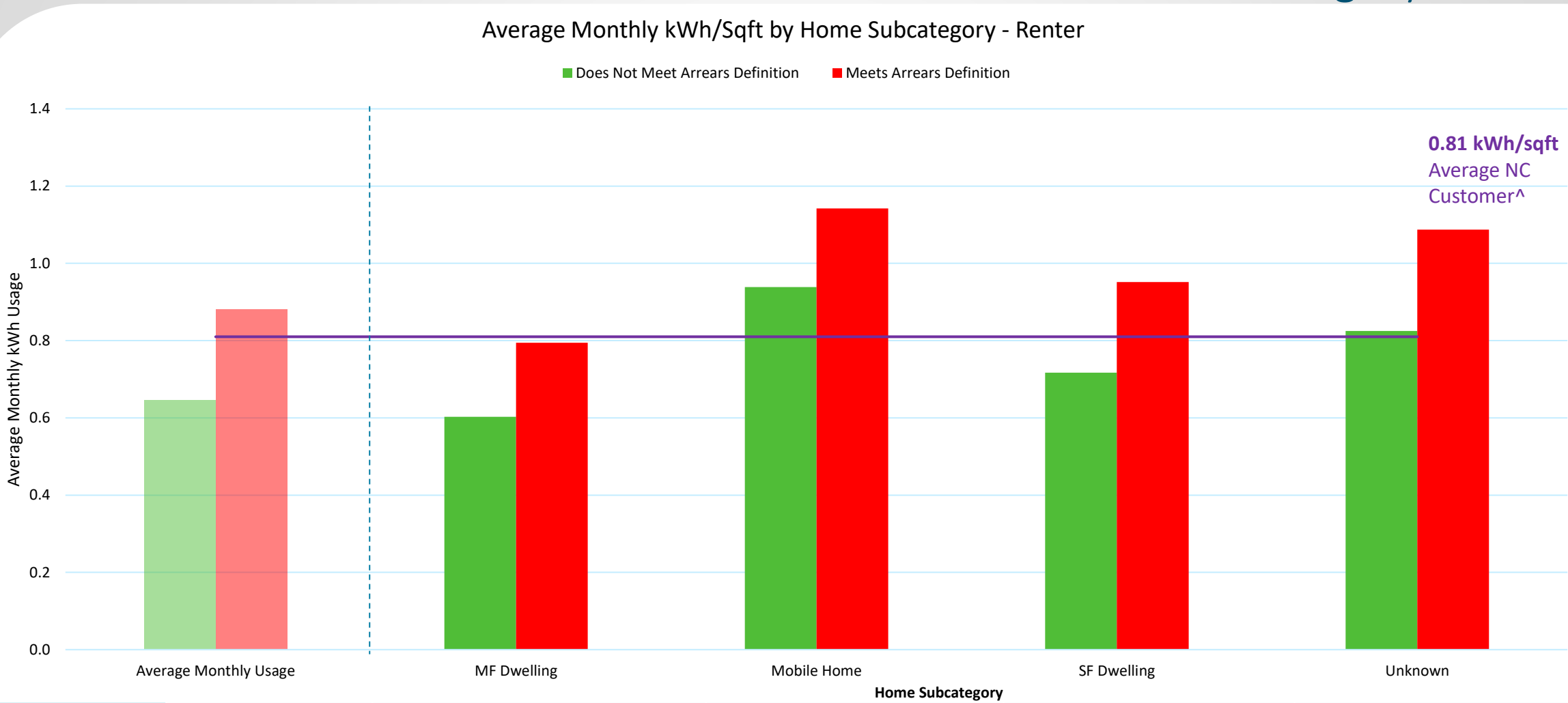
% Total Customers in Category*	25%	0.5%	0.2%	3%	21%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Average Monthly Usage per Square Foot by Arrearage Status for Home Subcategory – Renter

OFFICIAL COPY
Sep 28 2023



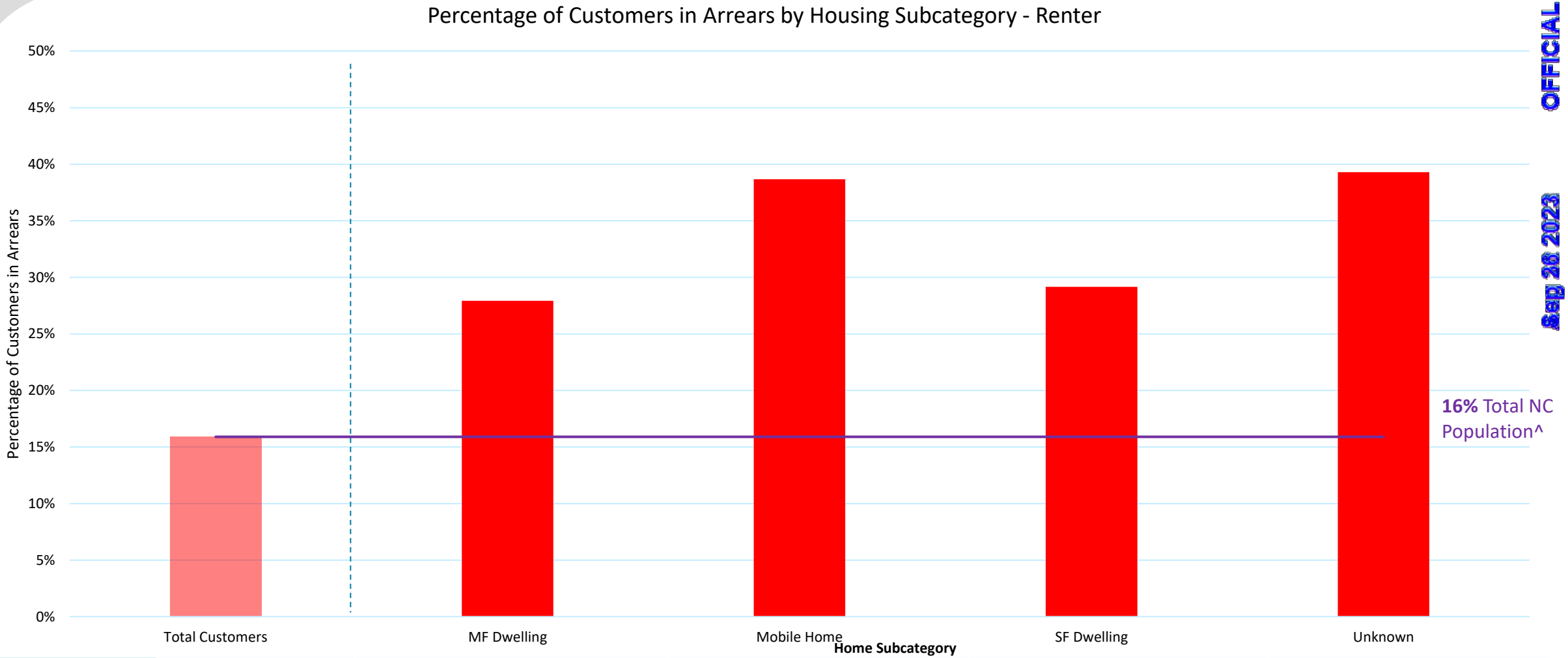
	Average Monthly Usage	MF Dwelling	Mobile Home	SF Dwelling	Unknown
% Total Customers in Category*	25%	0.5%	0.2%	3%	21%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Percentage of Customers in Arrears Definition for Home Subcategory – Renter

OFFICIAL COPY
Sep 28 2023

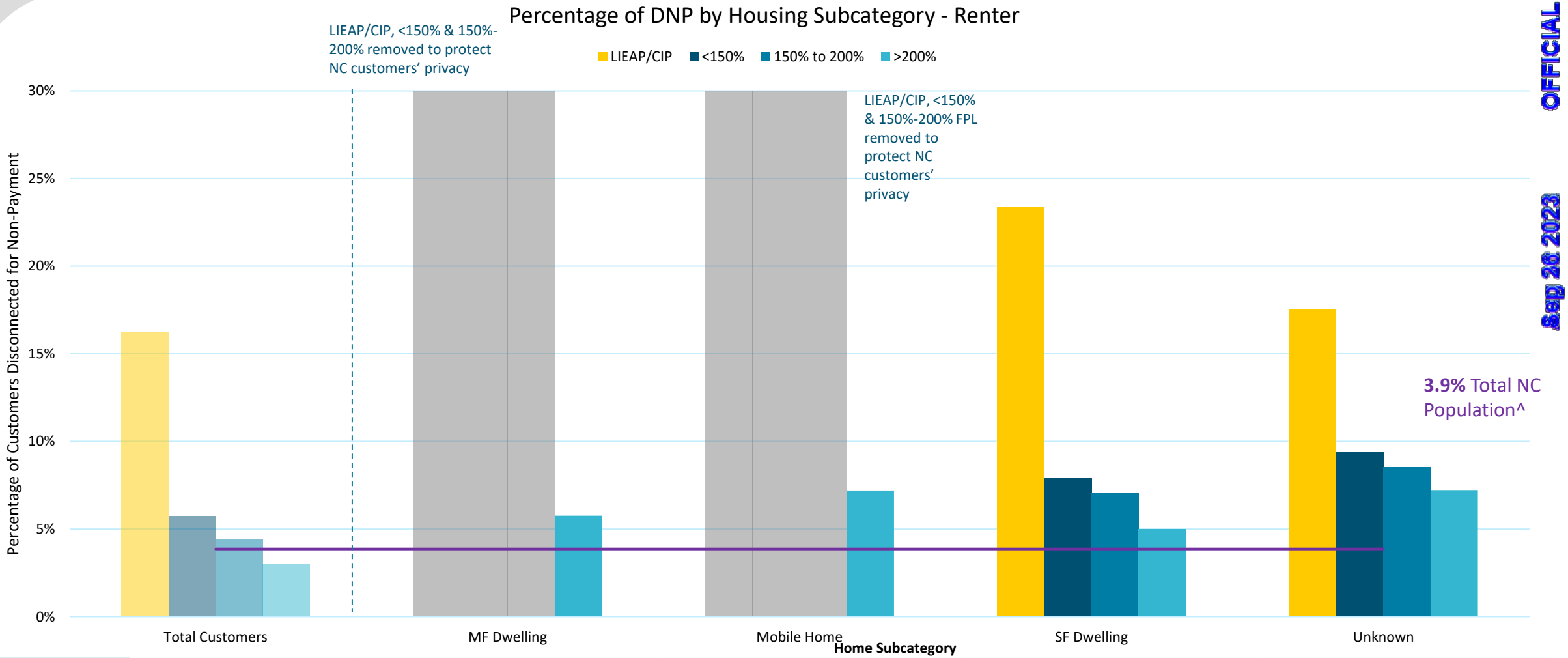


	Total Customers	MF Dwelling	Mobile Home	SF Dwelling	Unknown
% Total Customers in Category*	25%	0.5%	0.2%	3%	21%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Percentage of DNP by Income for Home Subcategory – Renter

OFFICIAL COPY
Sep 28 2023

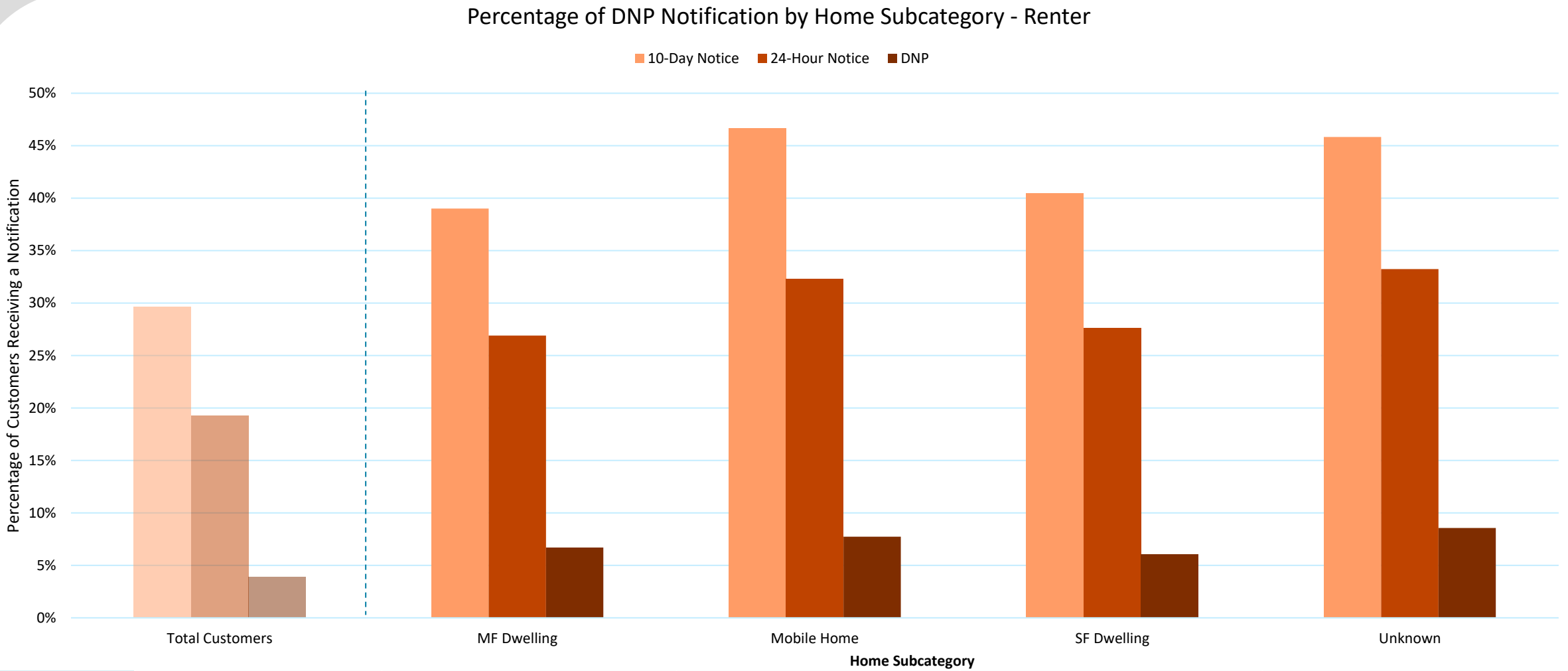


	Total Customers	MF Dwelling	Mobile Home	SF Dwelling	Unknown
% Total Customers in Category*	25%	0.5%	0.2%	3%	21%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Percentage of DNP Notifications by Notification Type for Home Subcategory – Renter

OFFICIAL COPY
Sep 28 2023

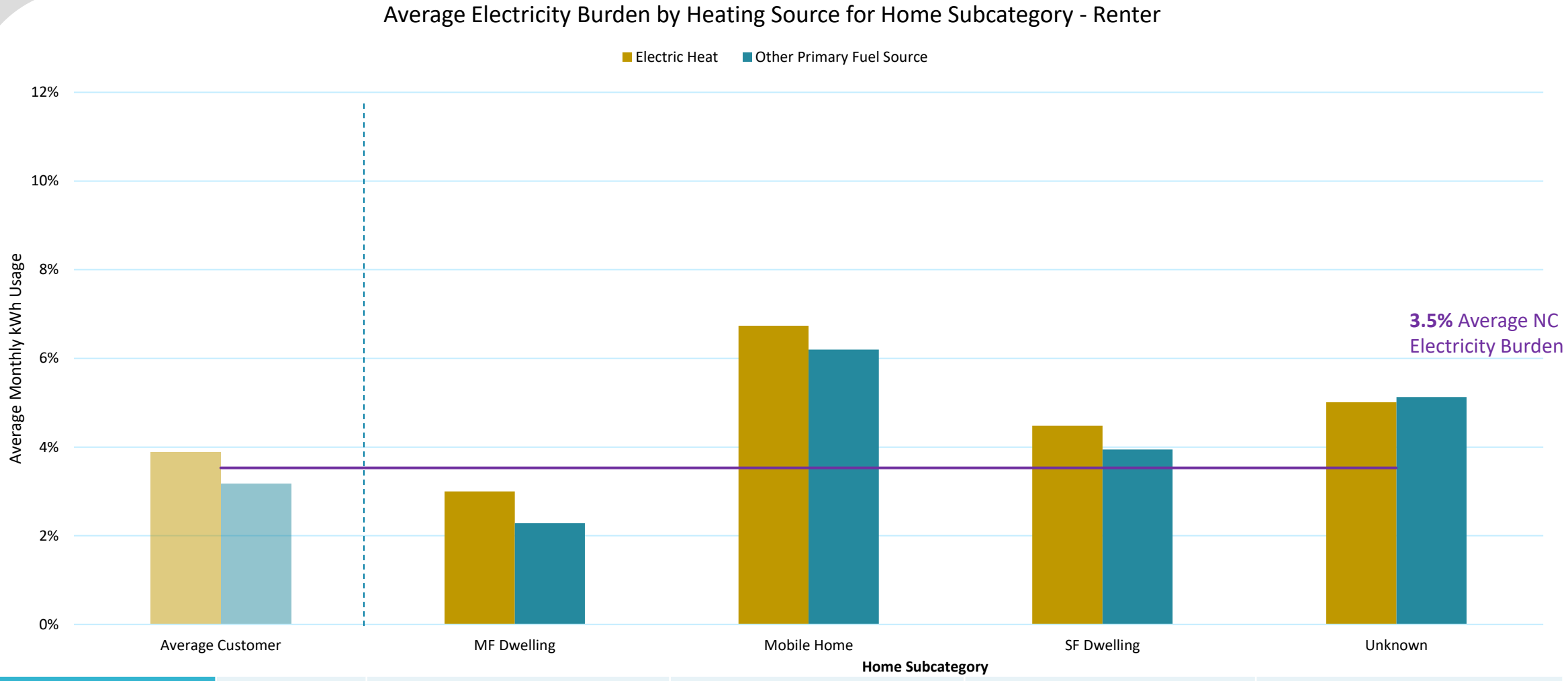


% Total Customers in Category*	25%	0.5%	0.2%	3%	21%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

Average Electricity Burden by Heating Source for Home Subcategory – Renter

OFFICIAL COPY
Sep 28 2023



% Total Customers in Category*	79%	0.5%	0.2%	3%	21%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%
^The average line includes customers who could not be categorized, therefore there may be instances of all groups above average

Income Level

OFFICIAL COPY
Sep 28 2023

Total Numbers	MF Dwelling	Mobile Home	SF Dwelling	Unknown
LIEAP/CIP	231	244	1833	29,788
<150% FPL	1,165	1,089	11,208	145,863
150%-200% FPL	966	852	9103	62,528
>200%	9,785	2,806	60,355	287,702
Total	12,147	4,991	82,499	525,881

Percentage of Customers in each Segment	MF Dwelling	Mobile Home	SF Dwelling	Unknown
LIEAP/CIP	0.0%	0.0%	0.1%	1.2%
<150% FPL	0.0%	0.0%	0.5%	6.0%
150%-200% FPL	0.0%	0.0%	0.4%	2.6%
>200%	0.4%	0.1%	2.5%	11.9%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Arrearage Status

OFFICIAL COPY
Sep 28 2023

Total Numbers	MF Dwelling	Mobile Home	SF Dwelling	Unknown
Meets Arrears Definition	9,495	1,392	18,623	148,375
Does not Meet Arrears Definition	2,652	3,599	63,876	377,506

Percentage of Customers in each Segment	MF Dwelling	Mobile Home	SF Dwelling	Unknown
Meets Arrears Definition	0.4%	0.1%	0.7%	6.0%
Does not Meet Arrears Definition	0.1%	0.1%	2.6%	15.2%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

DUKE ENERGY

DNP

OFFICIAL COPY
Sep 26 2023

Total Number of Customers in each Segment				
	MF Dwelling	Mobile Home	SF Dwelling	Unknown
LIEAP/CIP	-	-	429	5220
<150% FPL	-	-	888	13,716
150%-200% FPL	-	-	643	5,339
>200%	564	202	3,012	20,790
Total	814	386	4,972	45,065

Percentage of Customers in that Segment DNP (i.e., Percentage of mobile homes that were DNP)				
	MF Dwelling	Mobile Home	SF Dwelling	Unknown
LIEAP/CIP	-	-	23.4%	17.5%
<150% FPL	-	-	7.9%	9.4%
150%-200% FPL	-	-	7.1%	8.5%
>200%	6.0%	7.2%	5.0%	7.2%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

DNP Notifications

OFFICIAL COPY
Sep 26 2023

Total Number of Customers in each Segment				
	MF Dwelling	Mobile Home	SF Dwelling	Unknown
Non-DNP/DLQ	7,410	2,661	49,158	284,884
10-Day Notice	4,737	2,330	33,341	240,997
24-Hour Notice	3,268	1,610	22,757	174,772
DNP	814	386	4,972	45,065

Percentage of Customers in that Segment DNP Received a DNP Notification (i.e., Percentage of mobile homes that received a 10-Day Notice)				
	MF Dwelling	Mobile Home	SF Dwelling	Unknown
Non-DNP/DLQ	61.0%	53.3%	59.6%	54.2%
10-Day Notice	39.0%	46.7%	40.4%	45.8%
24-Hour Notice	26.9%	32.3%	27.6%	33.2%
DNP	6.7%	7.7%	6.0%	8.6%

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Electricity Burden

OFFICIAL COPY
Sep 28 2023

Total Numbers	MF Dwelling	Mobile Home	SF Dwelling	Unknown
Electric Heat	3,947	3,048	21,897	198,902
Other Primary Fuel Source	3,301	997	38,673	135,435

Percentage of Customers in each Segment	MF Dwelling	Mobile Home	SF Dwelling	Unknown
Electric Heat	0.2%	0.1%	0.9%	8.0%
Other Primary Fuel Source	0.1%	0.0%	1.6%	5.5%

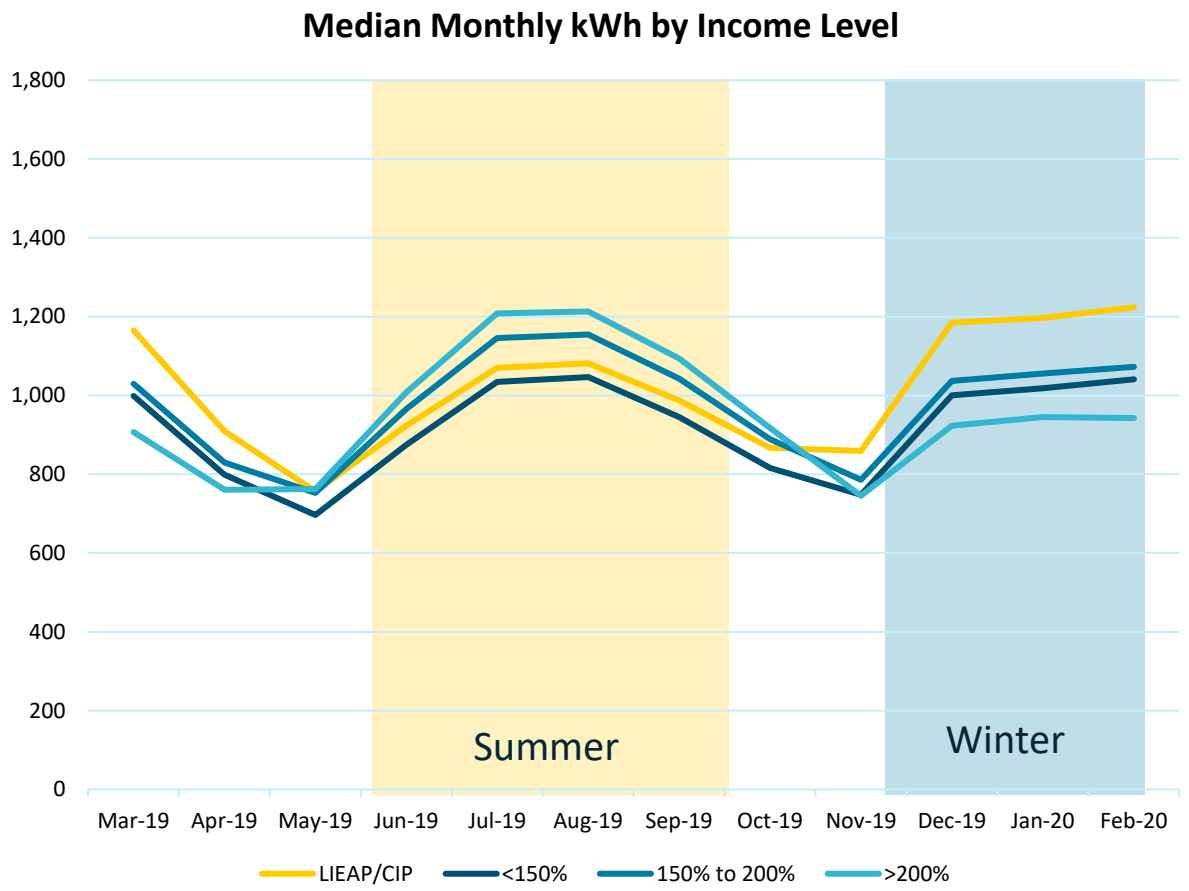
The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

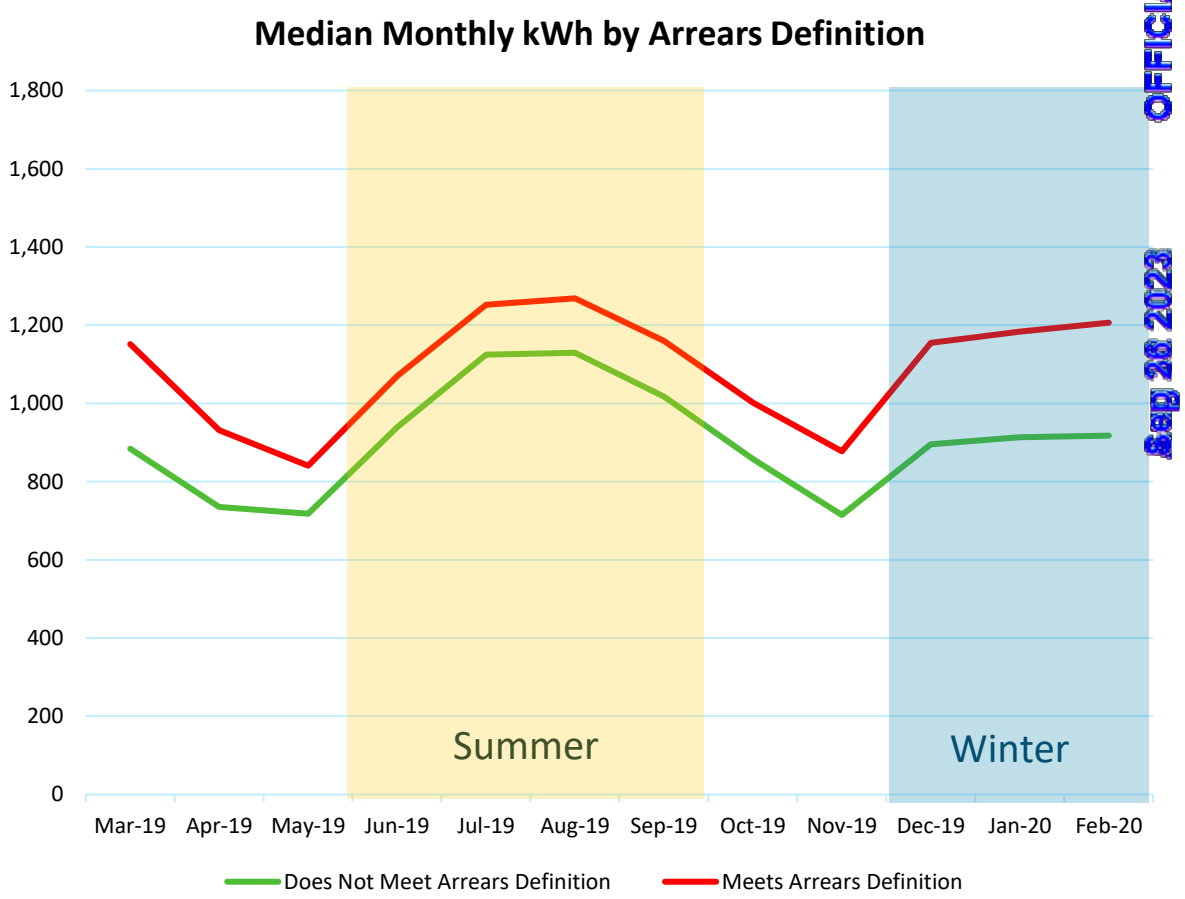
OFFICIAL COPY
Sep 28 2023

Analysis of Billing Data

Median Monthly kWh

OFFICIAL COPY
Sep 28 2023



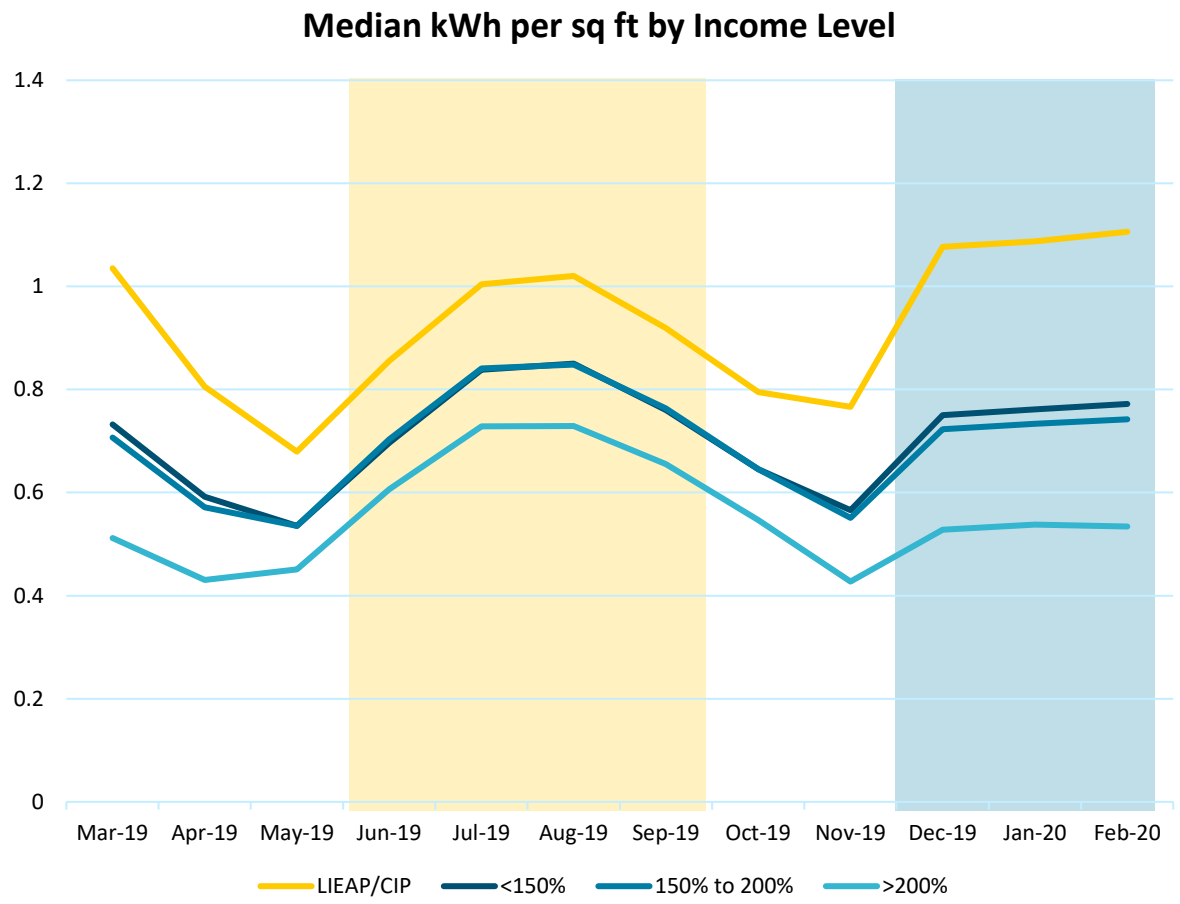


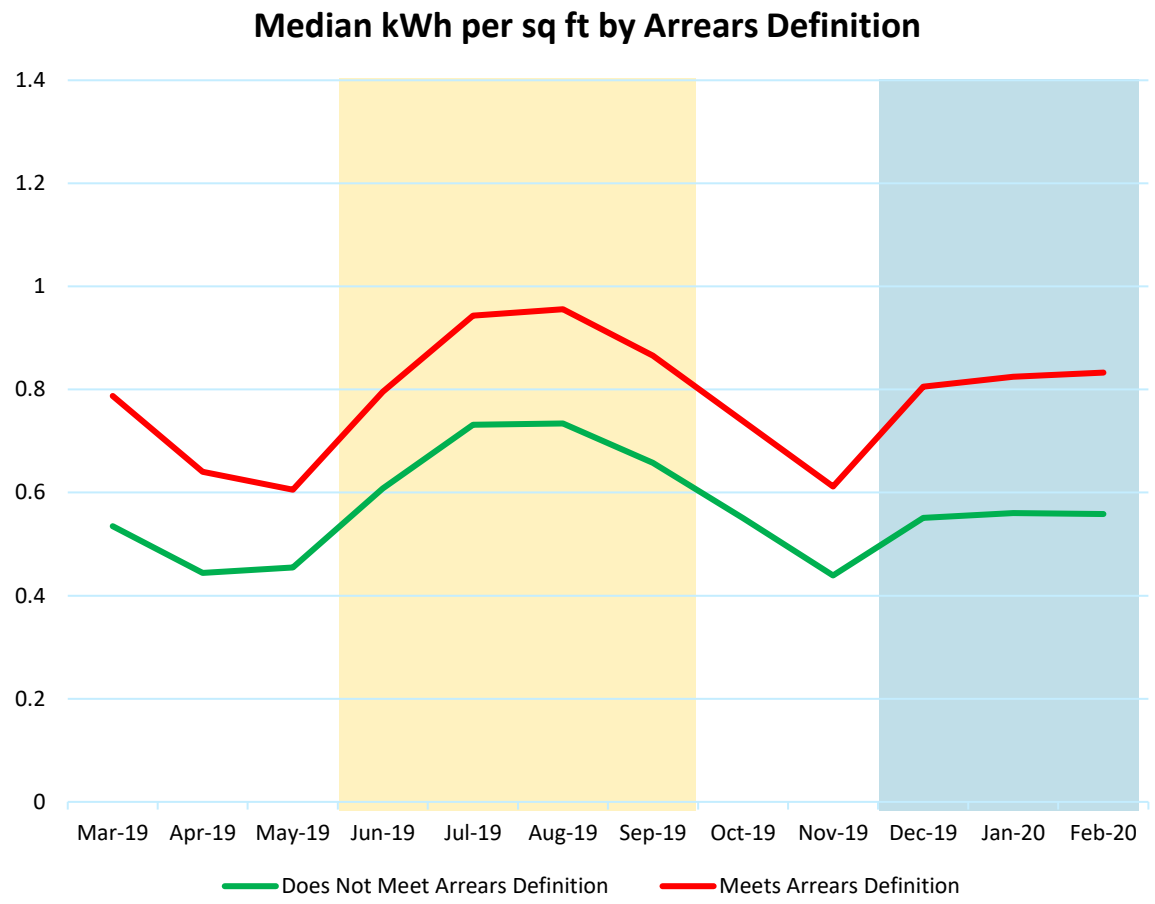
- Low-income & LIEAP/CIP customers use more energy in the winter, less in the summer
- Customers who meet the arrears definition use more kWh per month than other customers year-round

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Median kWh per sq ft

OFFICIAL COPY
Sep 28 2023



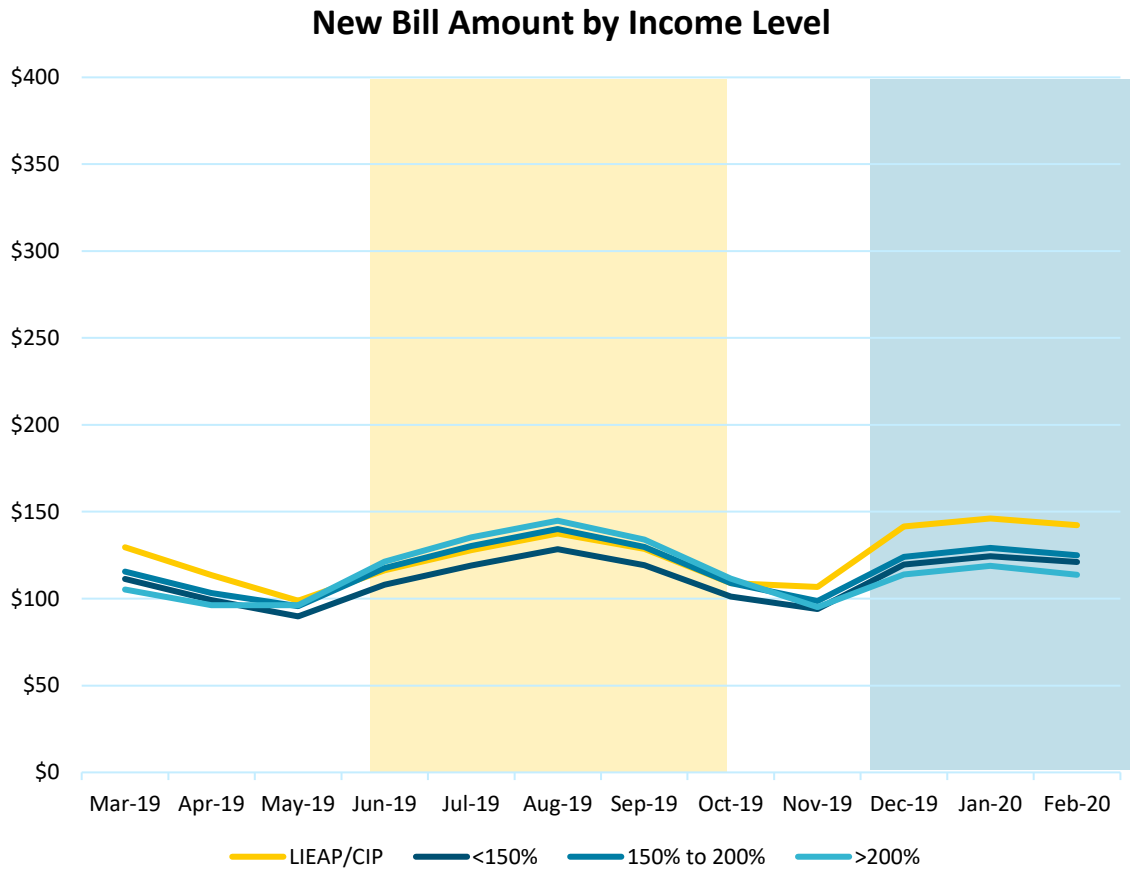


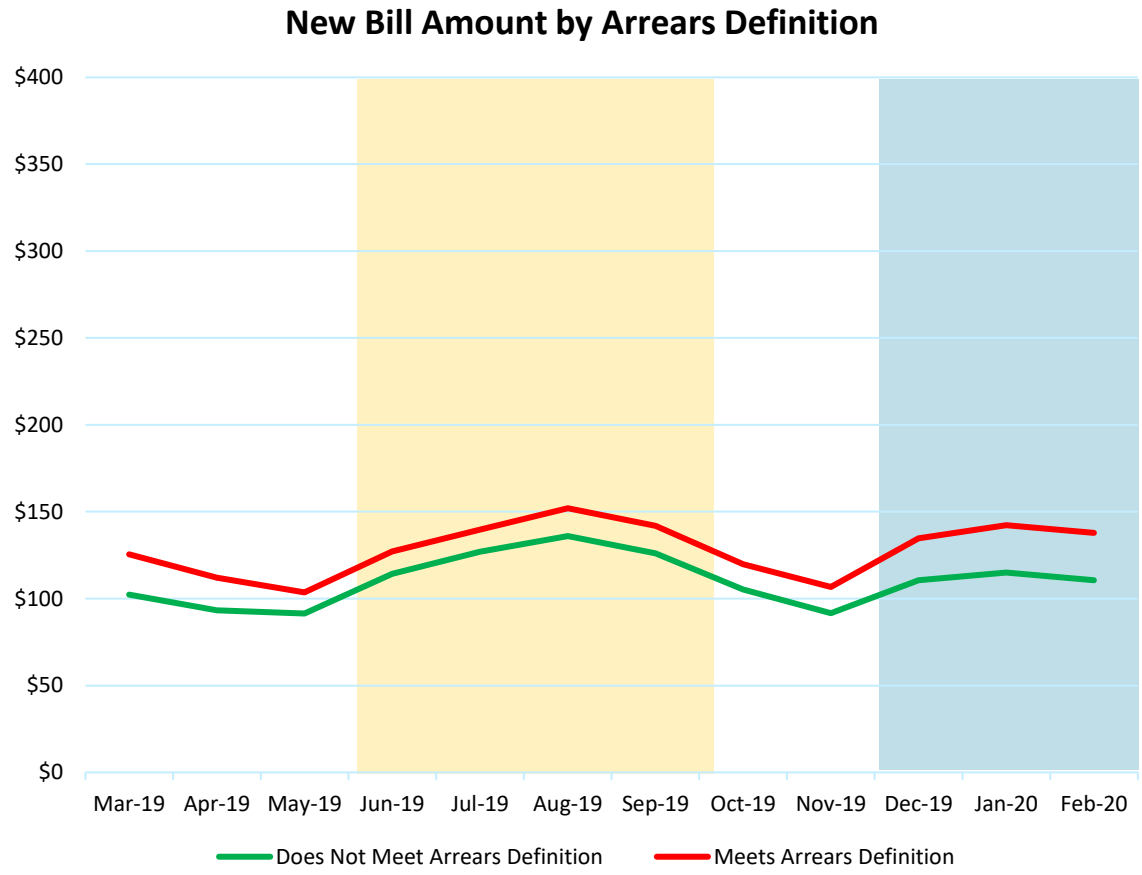
- LIEAP/CIP customers use two times more electricity in winter months per square foot than customers above 200% FPL
- Customers who meet the arrears definition use 50% more electricity in peak winter months per square foot

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Median Monthly New Bills

OFFICIAL COPY
Sep 28 2023



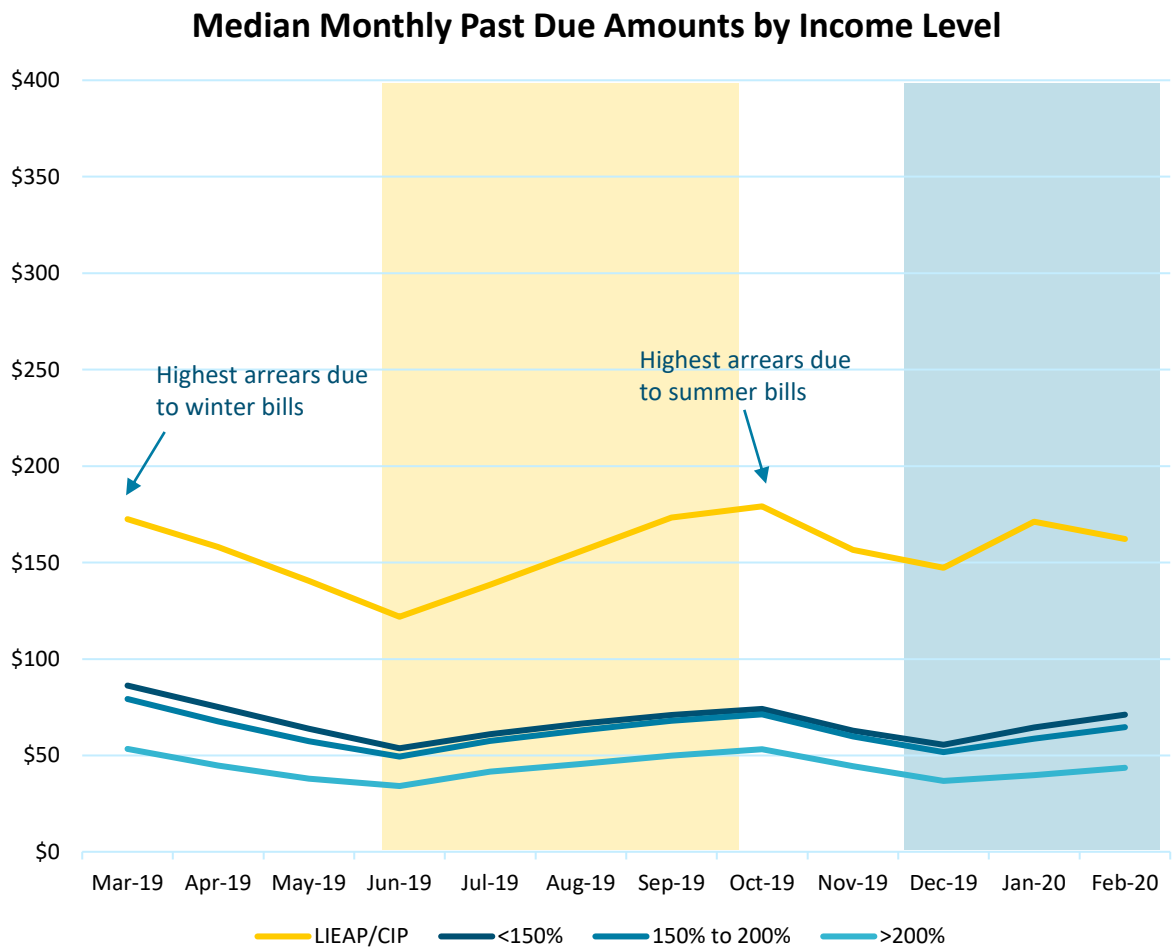


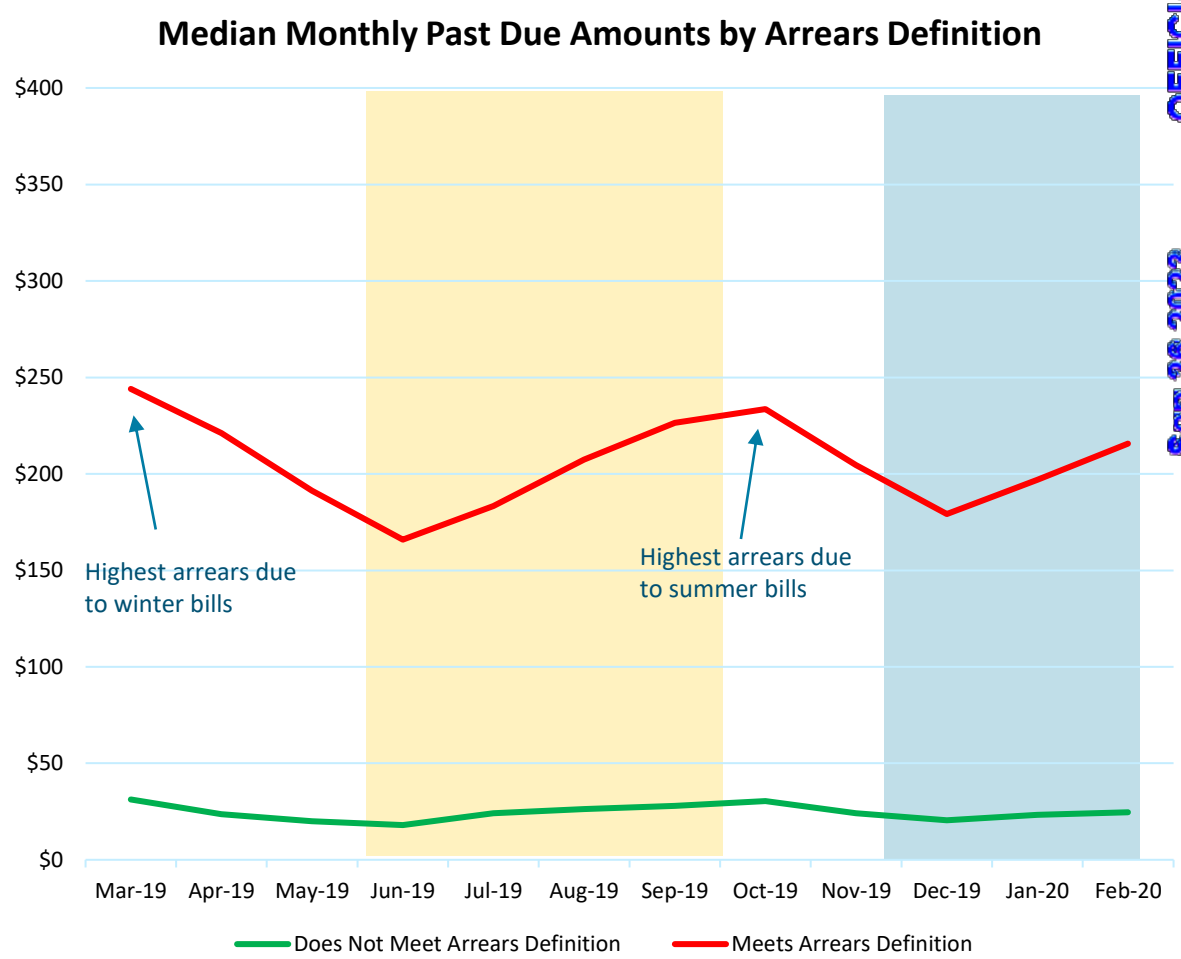
- Directly correlated with kWh usage
- LIEAP/CIP customers have higher bills in the winter, lower in the summer
- Customers struggling with arrears have new charges that are 16% higher year-round and 23% higher in the winter

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Median Monthly Past Due Amounts

OFFICIAL COPY
Sep 28 2023



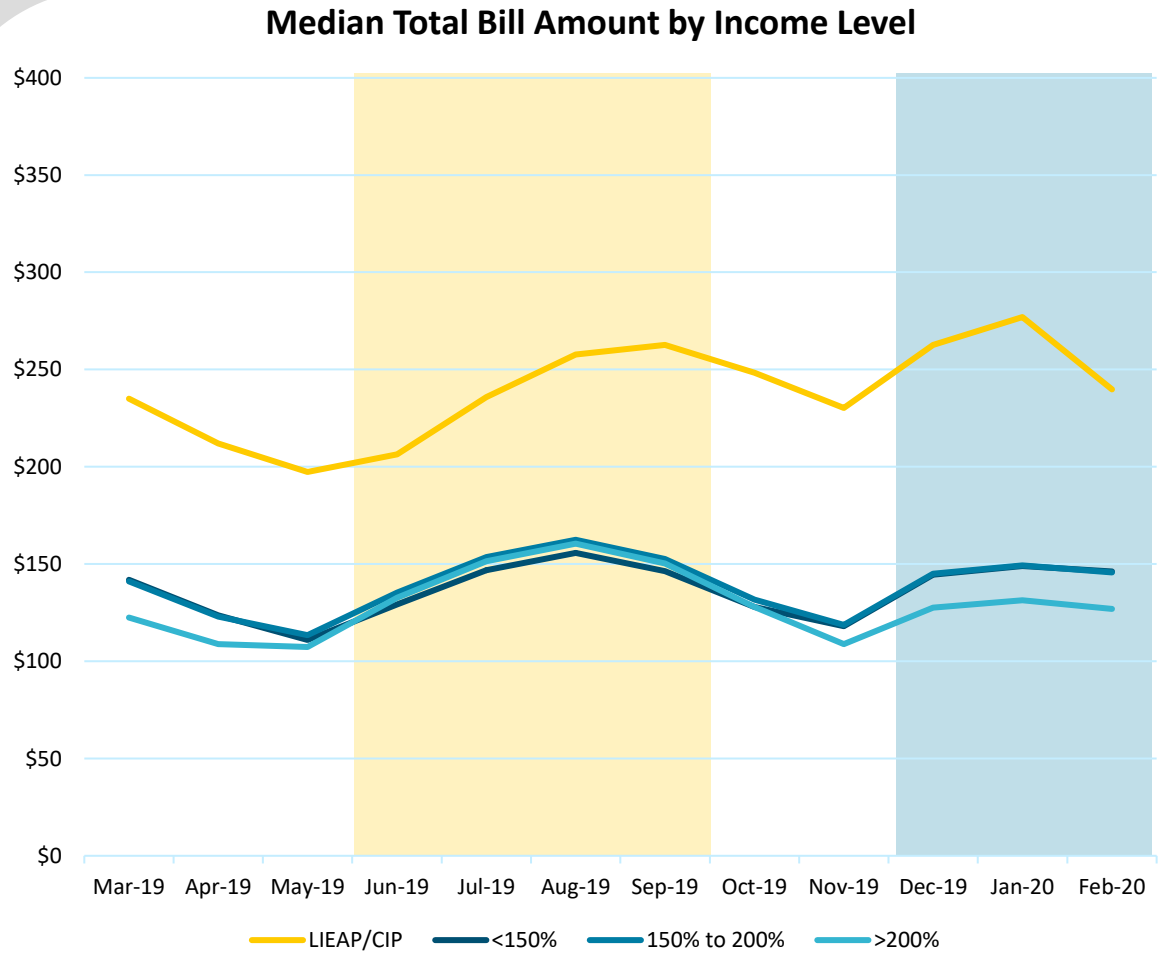


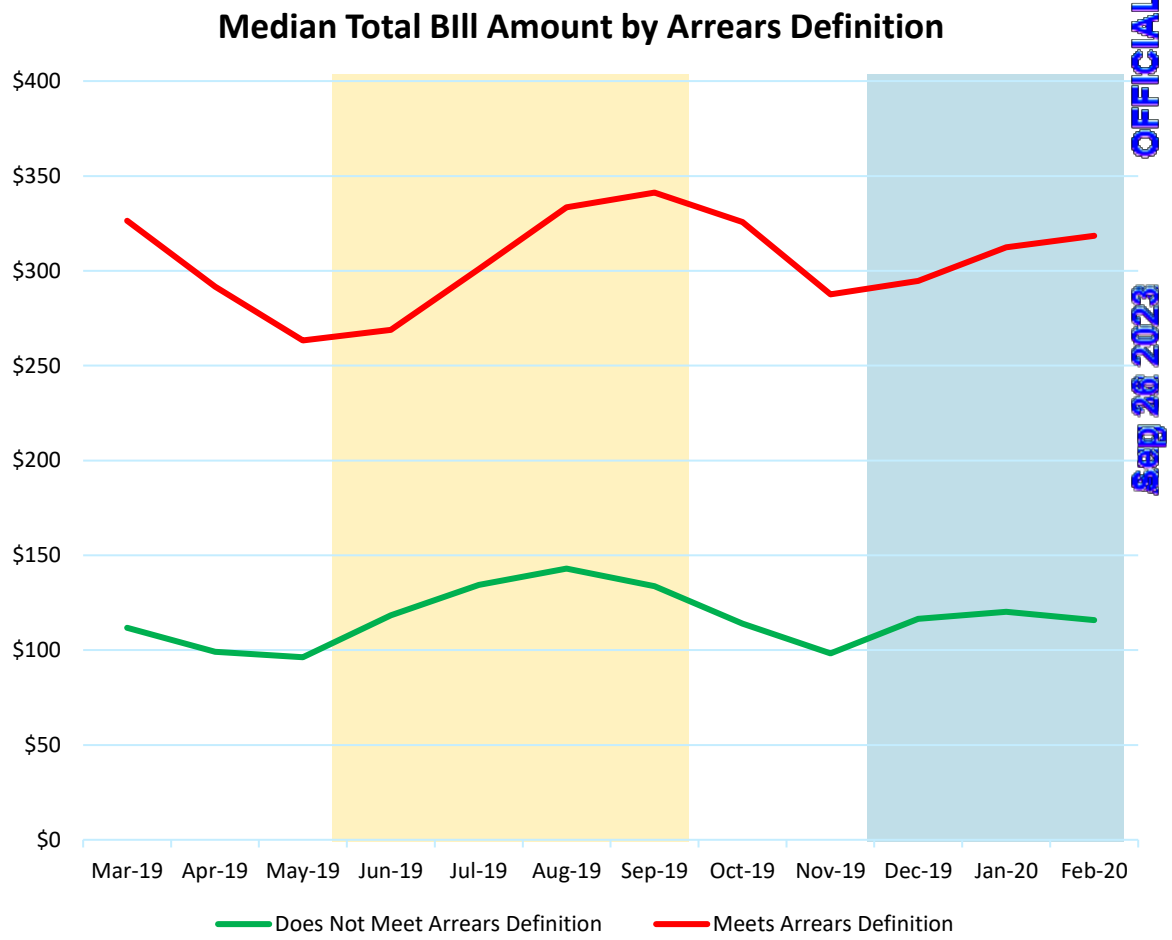
- LIEAP/CIP customers owe 3 times more in arrears at the end of summer and winter than customers above 200% FPL
- Median summer and winter peaks in arrears are over $230 and occur at the end of each season for customers who meet the arrears definition

The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

Median Total Monthly Bills

OFFICIAL COPY
Sep 28 2023





- LIEAP/CIP customers face a significantly higher total bill burden, particularly in the winter
- Non-LIEAP/CIP customers below 200% FPL do not appear to face a significantly higher total bill burden, especially in the summer
- Customers who meet the arrears definition have a total bill burden nearly 3 times that of non-arrears customers in peak winter months

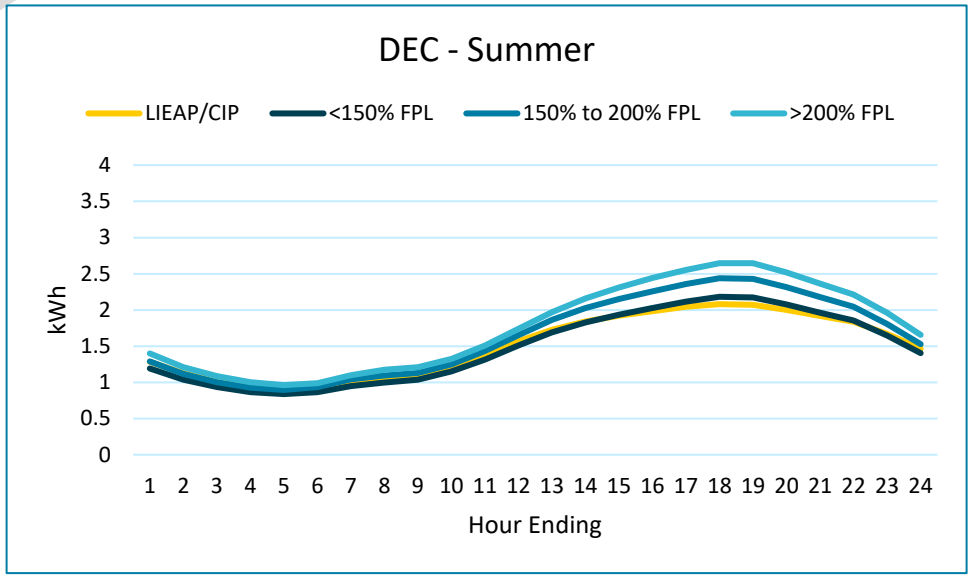
The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

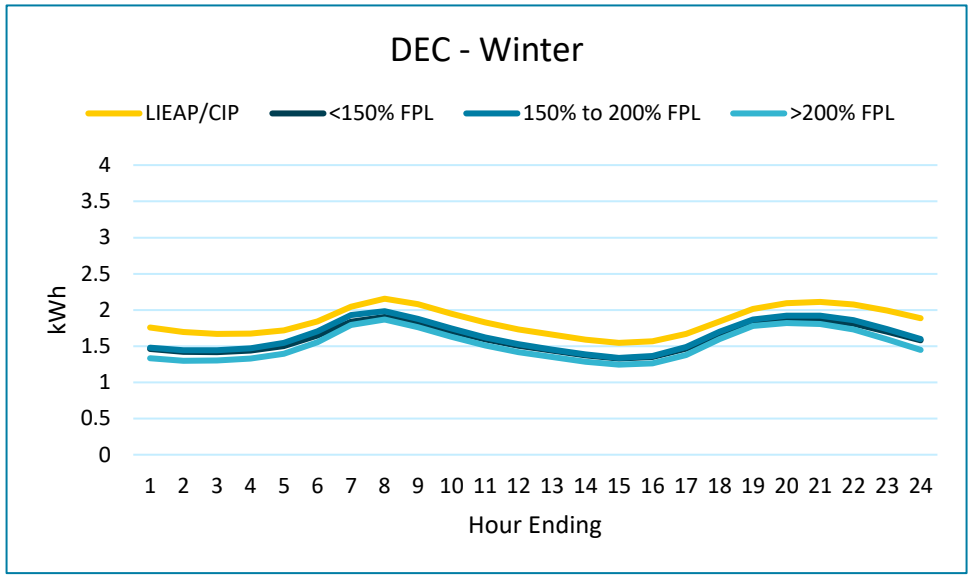
OFFICIAL COPY
Sep 28 2023

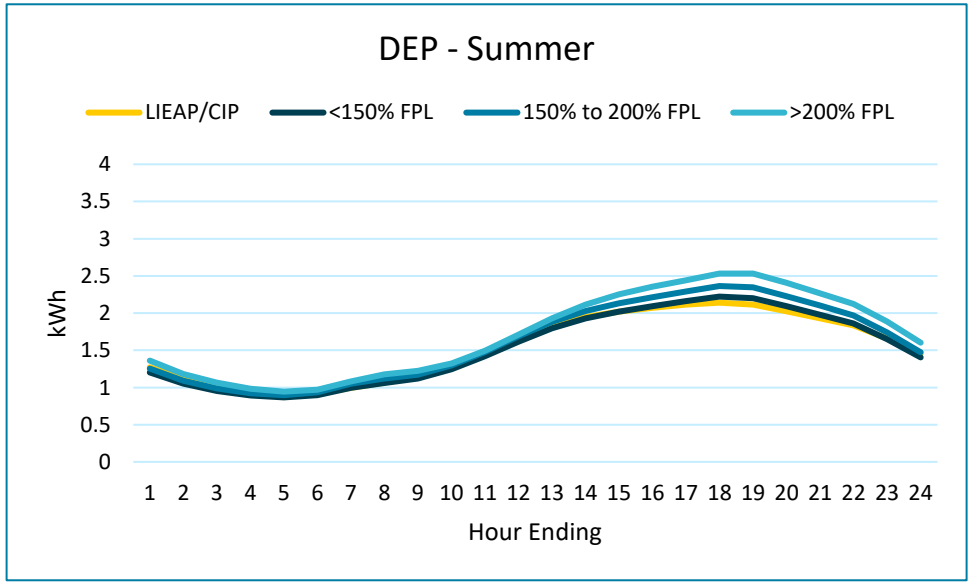
Analysis of Interval Data

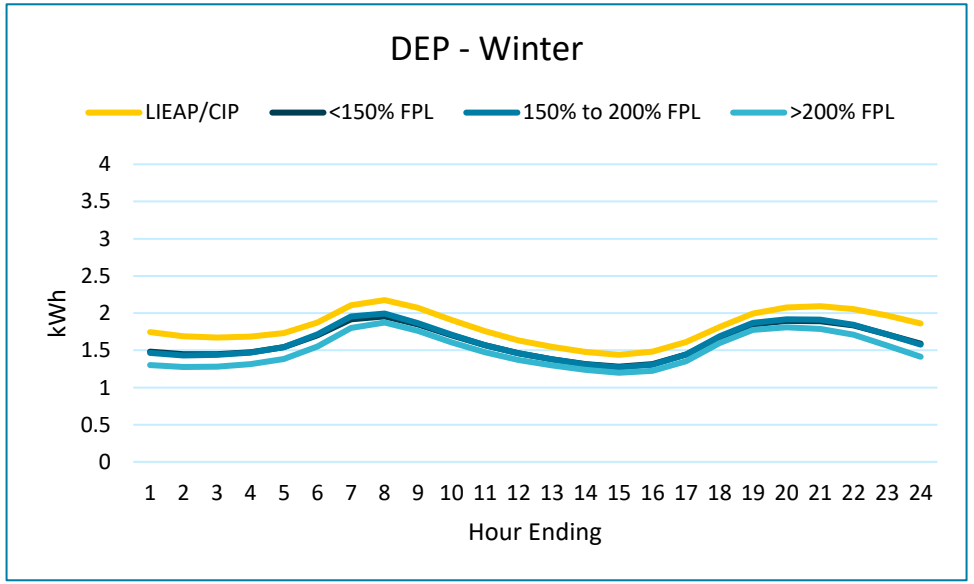
Average Weekday Load Shape by Season & Income Segmentation

OFFICIAL COPY
Sep 28 2023





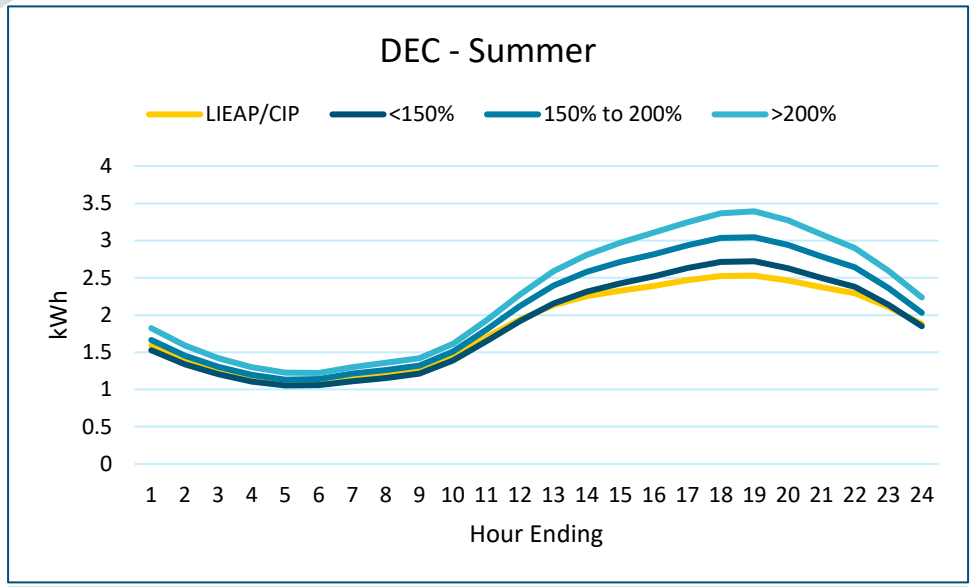


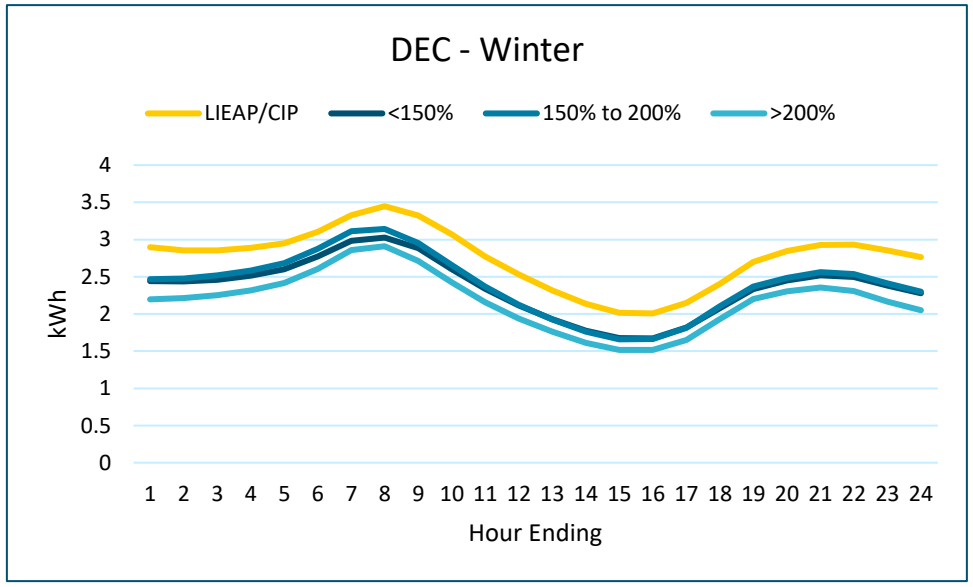


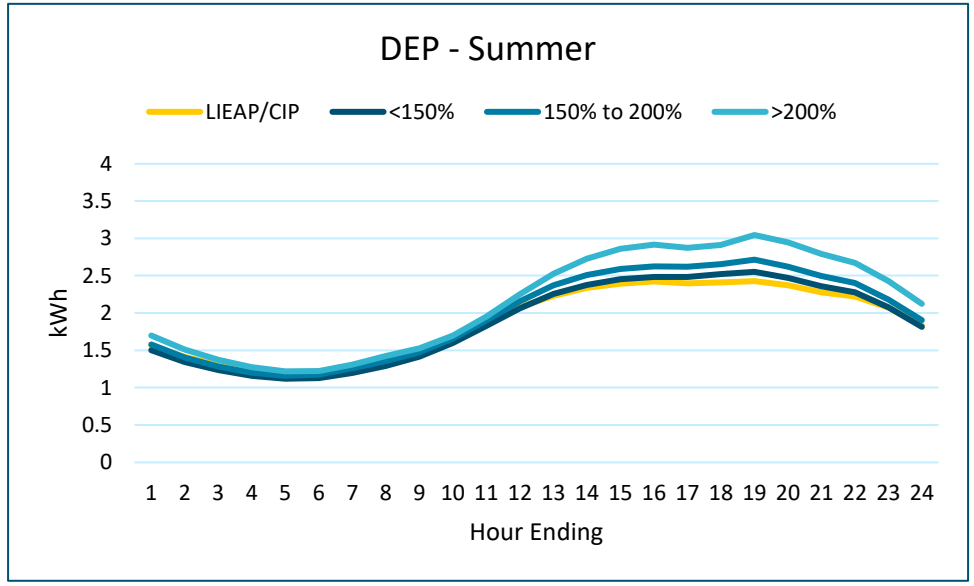
The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

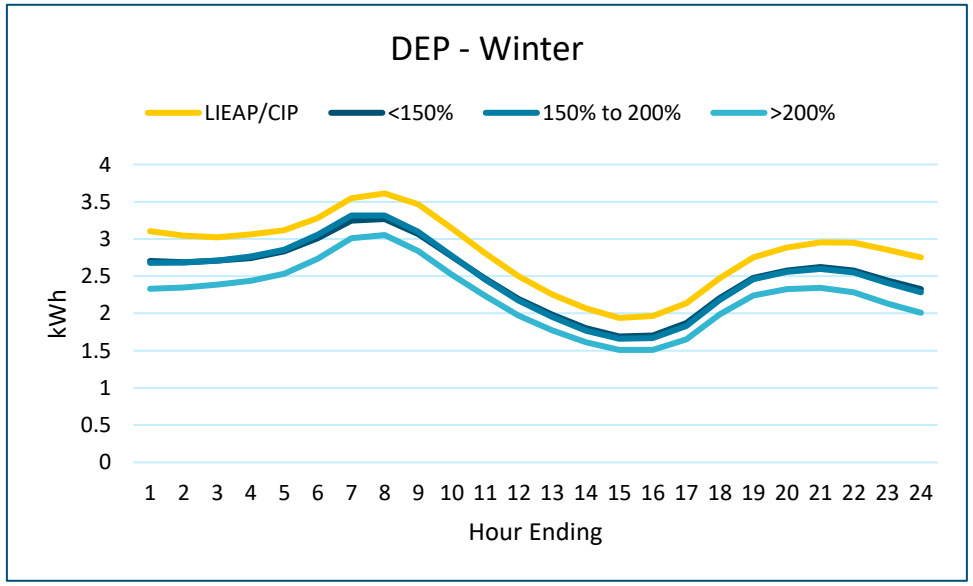
Peak Day Load Shape by Season & Income Segmentation

OFFICIAL COPY
Sep 28 2023





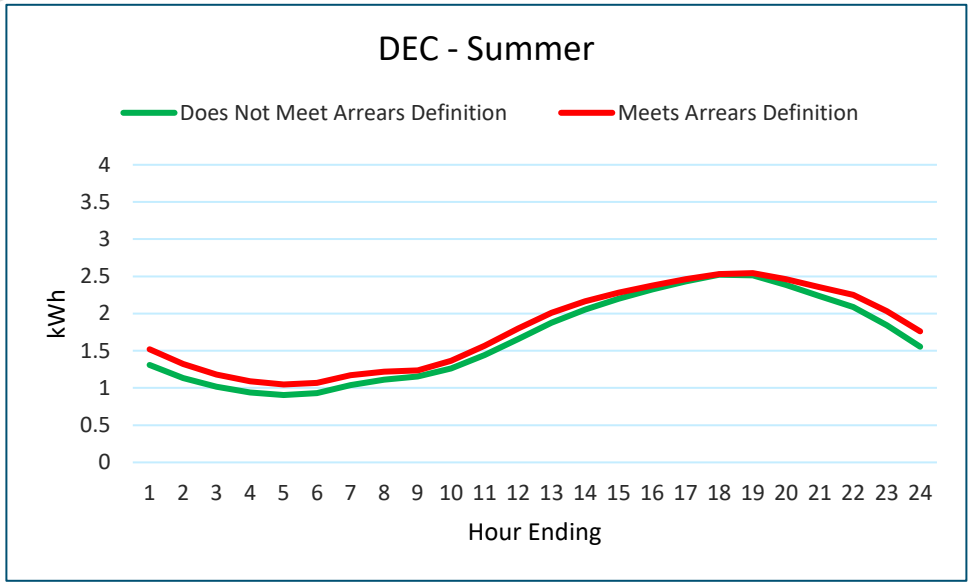


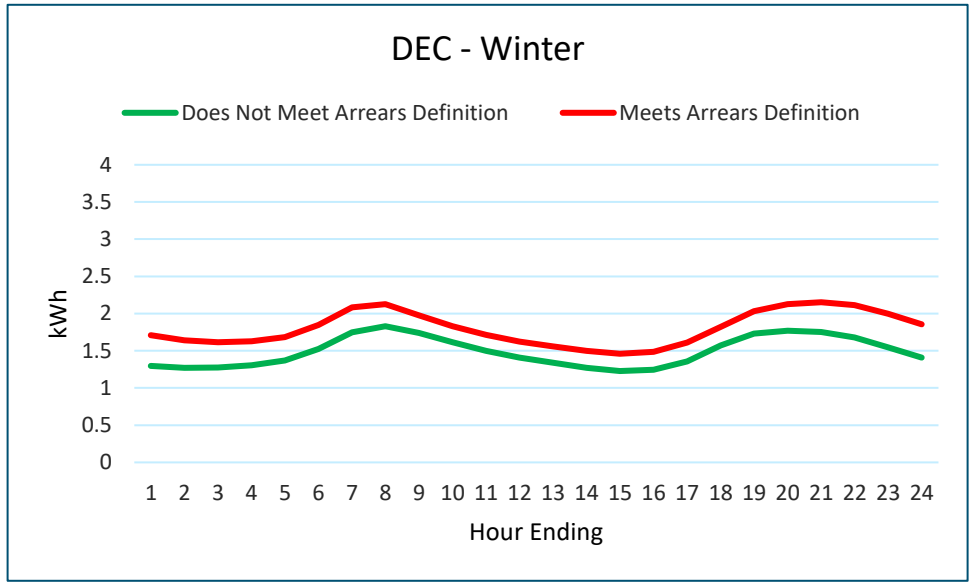


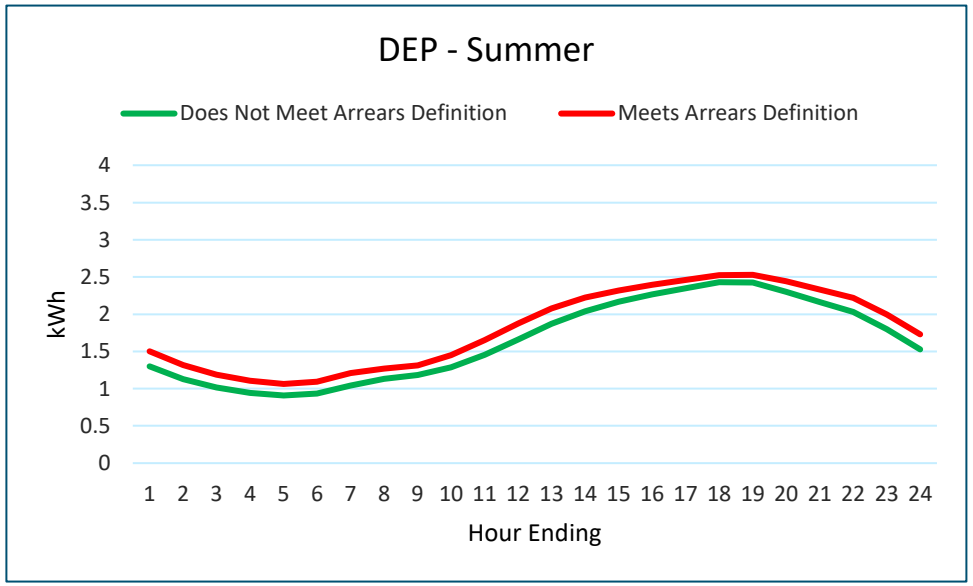
The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

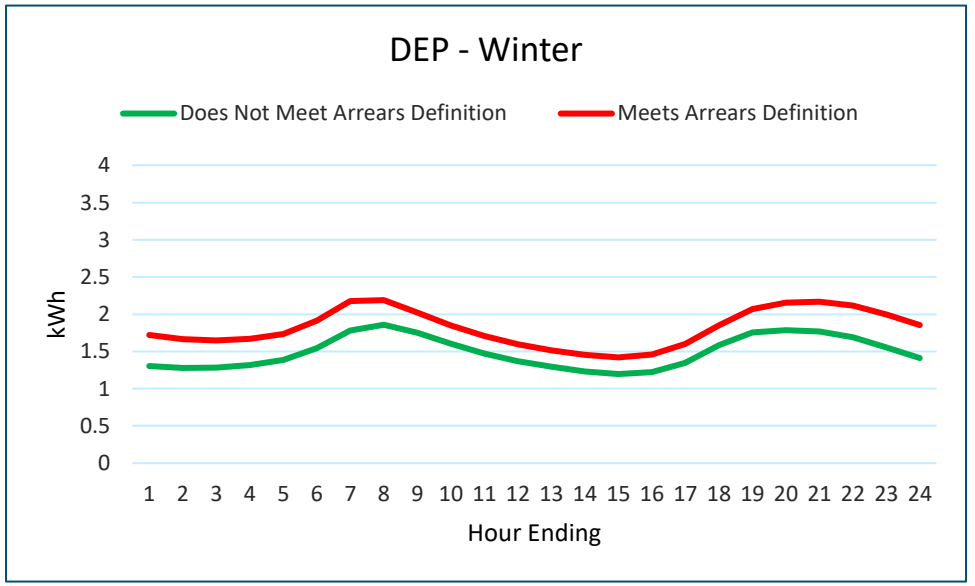
Average Weekday Load Shapes By Season & Arrearage Status

OFFICIAL COPY
Sep 28 2023





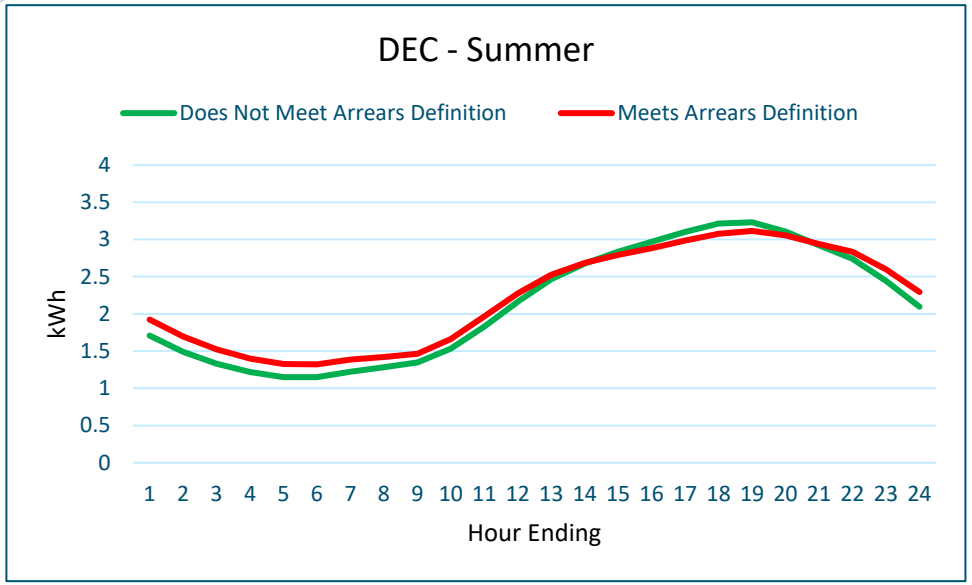


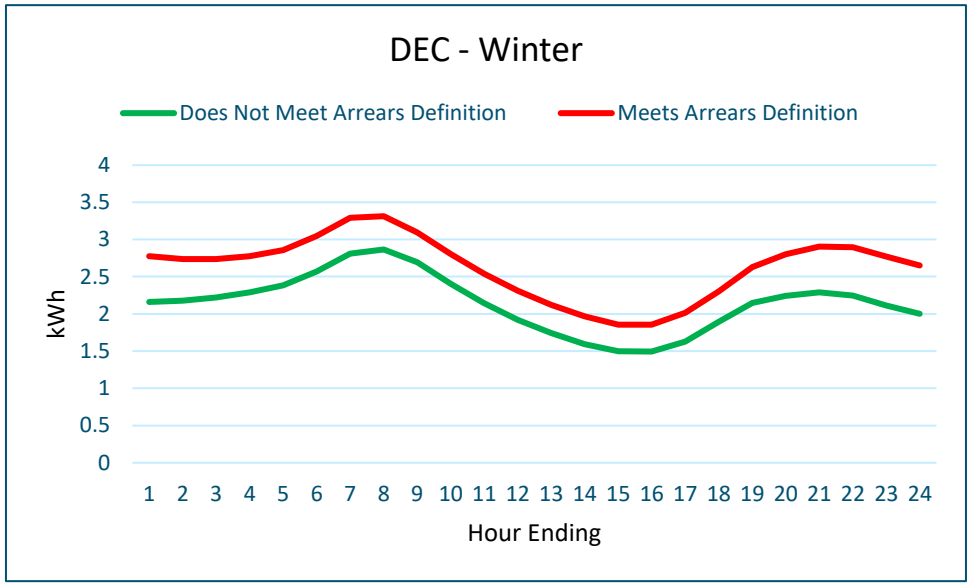


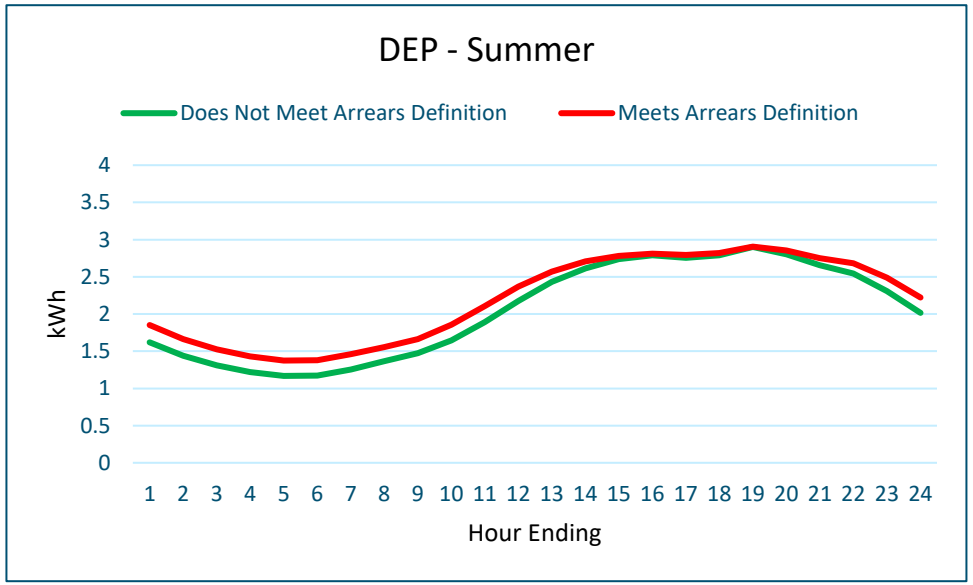
The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

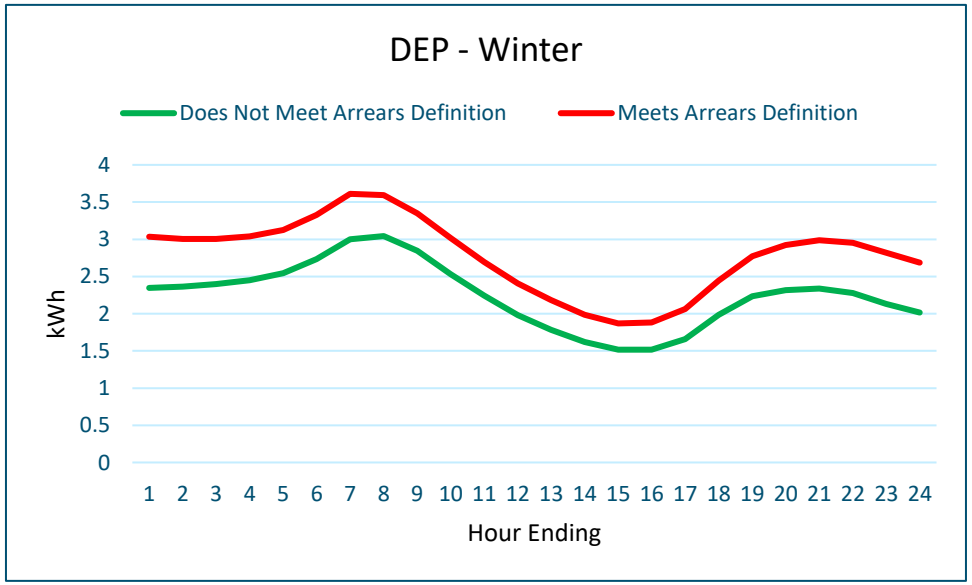
Peak Day Load Shapes by Season & Arrearage Status

OFFICIAL COPY
Sep 28 2023









The data included in this presentation is specific to eligible accounts from March 2019 - February 2020 for purposes of Low-Income Affordability Collaborative analysis

OFFICIAL COPY

Sep 28 2023

OFFICIAL COPY

Sep 26 2023

APPENDIX D – LIAC

ASSESSMENT

DOCKET NOS. E-7, SUB 1213; E-7, SUB 1214; E-7, SUB 1187; E-2, SUB 1219 AND E-2, SUB 1193

OFFICIAL COPY
Sep 26 2023

Assessment of Customer Challenges Relating to Energy Affordability

Produced by Sub-Team A of the Low-Income Affordability Collaborative

June 10, 2022

Table of Contents

Sub-team A Members and Representation **2**

Team Objectives and Progress **3**

Assessment of Customer Challenges **4**

Between 700,000 and 900,000 residential customers are low-income 4

Between 390,000 and 490,000 residential customers met Duke Energy's "arrears definition" during the 2019/2020 analytical period 4

Energy intensity (kWh/square foot) is a driving factor in low-income affordability challenges, likely in part due to poor housing quality/efficiency 5

Low-income and "arrears struggling" households are much more likely to be disconnected for non-payment 6

Statistical Analytics **7**

Overview and Approach 7

Analytical Results: Arrears Definition 7

Analytical Results: 24-Hour DNP Notice 11

Analytical Results: Disconnection for Non-Pay 14

What are Some Conclusions to be Drawn from the Analytics? 17

OFFICIAL COPY
Sep 26 2023

Sub-team A Members and Representation

Rory McIlmoil (Co-lead)	Appalachian Voices
Arnie Richardson (Co-lead)	Duke Energy
Conitsha Barnes	Duke Energy
Lucy Edmondson	NC Public Staff
Kendrick Fentress	Duke Energy
Jack Floyd	NC Public Staff
Scheree Gilchrist	Legal Aid NC
Derric Grier	Duke Energy
Kyna Grubb	Rowan Helping Ministries
Lindsey Hallock	Vote Solar
Carol Hardison	Crisis Assistance Ministry
John Howat	National Consumer Law Center (on behalf of Southern Environmental Law Center)
Kay Jowers	Duke Univ. Nicholas Institute for Envt'll Policy Solutions
James McLawhorn	NC Public Staff
Nancy Loehr	Duke Energy
Heather Pohnan	Southern Alliance for Clean Energy
La'Meshia Whittington	Advance Carolina
Tommy Williamson	NC Public Staff

OFFICIAL COPY
Sep 28 2023

Team Objectives and Progress

As directed by the Orders issued by the North Carolina Utilities Commission ("NCUC" or "Commission") on March 31, 2021, in Docket No. E-7, Sub 1214, and on April 16, 2021, in Docket No. E-2, Sub 1219 ("Rate Case Orders"), the Low-Income Affordability Collaborative ("LIAC") was tasked, among other things, to prepare an assessment of current energy affordability challenges facing residential customers. The assessment should:

1. Provide an analysis of demographics of residential customers, including number of members per household, types of households (single- or multi-family), the age and racial makeup of households, household income data, and other data that would describe the types of residential customers the Company now serves. To the extent demographics vary significantly across the Company's service area, provide additional analysis of these demographic clusters.
2. Estimate the number of customers who live in households with incomes at or less than 150% of the Federal Poverty Level guidelines (sometimes referred to as "FPL" or "FPG"), and those whose incomes are at or less than 200% of the FPL.
3. For the different demographic groups identified as part of a. and b., provide an analysis of patterns and trends concerning energy usage, disconnections for nonpayment, payment delinquency histories, and account write offs due to uncollectibility.

Duke Energy Progress, LLC and Duke Energy Carolinas, LLC (the "Companies" or "Duke Energy") have provided a level of analysis on low-income customers that are without precedent in the Companies' history. The analysis represents customer data generated between March 1, 2019 through February 29, 2020 ("pre-Covid period") and serves as the primary basis for this Assessment of Customer Challenges Relating to Energy Affordability.

The Companies have presented data to LIAC members on the following customer segments: federal poverty level, arrearage status, Low Income Energy Assistance Program ("LIEAP")/Crisis Intervention Program ("CIP") participants, housing type (single vs. multi-family, mobile and manufactured), housing status (owner vs renter), heating source, location, housing value, race, age of the account holder, and number of people in the household. The demographic and housing data was purchased from a third party, Acxiom, as primarily a marketing data source. Within each of these segments, the Companies have provided data on average monthly kWh usage, kWh usage per square foot, customers meeting the Companies' definition of struggling with arrearages, electric energy burden, 10-day and 24-hour notifications of disconnection for non-payment, and disconnections for non-payment. In addition, Duke Energy provided analyses on customer segments by usage per month, average seasonal load shapes, and average peak day load shapes.

For the purposes of this assessment, we define the term "low-income" to mean residential customers with gross household incomes that are less than 200% of FPL.

OFFICIAL COPY
Sep 26 2023

Assessment of Customer Challenges

Between 700,000 and 900,000 residential customers are low-income

The ability to afford basic needs and services, including energy bills, is directly related to household income. Customers identified as low-income[1] households, based on federal poverty guidelines, are likely to experience energy affordability challenges.

Per Duke Energy's analysis, 29% of residential accounts served by DEC and DEP qualify as low-income (see Table 1). This includes the 16% of accounts that fall under 150% of federal poverty guidelines that were not identified as recipients of LIEAP/CIP assistance, the 2% of accounts that were identified as receiving that assistance, and another 11% of accounts that fall within the 150-200% FPL range. Combined this amounts to approximately 710,000 of the 2.4 million households included in the analysis (using data from the pre-COVID period). However, assuming the percentage has not declined since February 2020, 29% of the Companies' currently reported NC residential customer base of 3.07 million[2] equates to 900,000 accounts qualifying as low-income.[3]

TABLE 1: Percent and number of Duke Energy (NC) residential customers qualifying as low-income

Category	% All Customers	No. Customers (2.37M)	No. Customers (3.07M)
LIEAP/CIP	2%	53,595	67,785
< 150% FPL	16%	385,339	487,365
150 - 200% FPL	11%	271,432	343,299
Total low-income	**29%**	**710,366**	**898,448**

Between 390,000 and 490,000 residential customers met Duke Energy's "arrears definition" during the 2019/2020 analytical period

In order to provide a unique supplemental look at electricity affordability and associated impacts for residential customers, the Duke Energy team developed an "arrears definition" that is not directly based on income, but rather on the frequency and depth to which certain customers find themselves late in paying their monthly electric bill and/or being significantly behind on their bill. For the purpose of the analyses Duke Energy defined "arrears struggling" customers as those who found themselves in an arrearage situation in which they (1) were behind on paying their average/regular bill amount for six or more months during the pre-COVID period **or** (2) were behind by twice the amount (or more) of their average bill for two or more months during that same pre-COVID period.

[1] The focus of the LIAC relates to affordability challenges faced by low-income customers. However, Duke Energy's "arrears definition" analysis shows that a significant number of non-low-income (greater than 200% FPL) customers also experience challenges with paying their bill.
[2] The 3.07 million residential includes all NC residential active accounts as of September 30, 2021 regardless of duration the account was active. In comparison, the 2.37 million residential accounts in the analysis reflect residential accounts active for the entire time frame from March 2019 through February 2020.
[3] September 2021 Arrearage Report. NCUC Docket M-100, Sub 158. https://starw1.ncuc.net/NCUC/page/docket-docs/PSC/DocketDetails.aspx?DocketId=66e14449-b407-4ac3-93eb-a417521e1269

OFFICIAL COPY
Sep 26 2023

Per Duke's analysis, and as shown in Table 2, ~16% of the residential customer base (of the ~2.43 million customers included in the arrears analysis) met the arrears definition, amounting to 395,204 customers (*note: if this percentage was applied to the 3.07 million reported residential customers as of September 2021, the number of customers meeting the arrears definition would be approximately 490,000)*.

Of those, a combined 4.9% to 7.1% of Duke Energy residential customers in the <150% FPL and <200% FPL categories, respectively (including LIEAP/CIP) were also arrears struggling, amounting to 115,000 to 168,000 customers. Categories of customers where a higher-than-average proportion of customers met the arrears definition include low-income households, African American and Hispanic households, multi-family and rental households, mobile/manufactured homes, urban/city households, low-value housing (less than $100,000 property value), all-electric households, households where the age of the primary account holder was 54 years old or younger, and single-person households.

As explained below in this assessment, arrears struggling customers use more energy, have a higher energy intensity, and are disconnected at higher rates than non-arrears struggling customers. However, it is important to highlight that 57% of the customers in an arrears struggling situation do not meet the definition of low-income. While it can be expected that a large number of non-low-income customers also struggle with affording their bills, and that there is likely to be some proportionality between the percentages of arrears struggling and total customers (e.g., 29% of Duke Energy customers qualify as low-income while 71% do not), this is a finding that requires further discussion and consideration.

TABLE 2: Breakdown of "arrears struggling" customers by income category

	LIEAP/CIP	< 150% FPL	150-200%	200+% (+ unknown)	Total
Category as % of total customers	2%	16%	11%	70%	100%
No. of customers in category	53,595	385,339	271,432	1,716,956	2,427,322
% of category, "arrears struggling"	58%	22%	19%	13%	16%
No. of "arrears struggling"	31,340	83,741	52,350	225,410	392,841
"Arrears" as % of total customers	1.3%	3.4%	2.2%	9.3%	15.8%
Category as % of total "arrears struggling"	8.0%	21.3%	13.3%	57.4%	100.0%

Energy intensity (kWh/square foot) is a driving factor in low-income affordability challenges, likely in part due to poor housing quality/efficiency

Low-income households, specifically LIEAP/CIP recipients, and arrears struggling households have a much higher energy intensity (kilowatt-hours used per square foot of living space) than non-low-income customers (> 200% FPL), as do (1) rural households, (2) younger customers, (3) customers living in low-value housing, (4) multi-family & mobile/manufactured homes households, and (5) rental households.[4]

[4] Each of these categories of customers are more likely to reflect households occupied by lower-income customers.

OFFICIAL COPY
Sep 26 2023

For instance, LIEAP/CIP recipient households have an energy intensity that is ~25% greater than other low-income households, and 60% greater than non-low-income households. Arrears struggling households use 25-35% more energy per square foot for all customer segments (housing, race, age, location, etc) analyzed for the purpose of this assessment. The higher energy intensity levels for each of the aforementioned categories is likely in part related to poor housing quality and lower energy efficiency, which in turn drive higher energy usage and bills. The statistical analysis further supports this, as discussed later in the assessment.

Additionally, the Companies' findings on seasonal usage for low-income and arrears struggling households indicate that higher usage and bills may be related to inefficient housing and heating and cooling systems. The analysis identified that low-income households use more energy in the winter and have higher winter bills, but arrears struggling use more energy year-round -- nearly 20% more in the summer and 30% more in the winter than non-arrears struggling households.

Other findings from the Companies' analysis highlight the interplay between income level, energy intensity, and energy usage:

- LIEAP/CIP recipient households experience an energy intensity that is 100% greater (double) than non-low-income households' in the winter and approximately 40% higher than non-low income households' in the summer.
- Other (non-LIEAP/CIP) low-income customer energy intensity is about 33% higher than non-low-income households in winter and 14% higher in the summer.
- Arrears struggling households use 50% more energy per square foot in the winter and 33% more in the summer than households that did not meet the arrears definition
- Arrears struggling customers have a ~160% higher total bill in peak winter months (133% higher in summer) than non-low-income households; for LIEAP/CIP customers, the bill differential is 100% and ~70% higher, respectively

Low-income and "arrears struggling" households are much more likely to be disconnected for non-payment

A number of low-income households in general struggle with their electricity bills, with those that received bill payment assistance (LIEAP/CIP) struggling the most and experiencing DNP[6] at a much higher rate (greater than 16.3% of all LIEAP/CIP recipients), in addition to having received assistance. For instance, low-income customers are two times more likely, and "arrears struggling" customers and LIEAP/CIP recipients nine to ten times more likely, to experience a DNP than non-low-income customers. Categories of customers that experience higher-than-average DNP's include the same categories as those for arrears struggling customers. Additionally, the lowest income (< 150% FPL) and arrears struggling households are disconnected at higher rates across all housing, geographical, home value, and racial categories.

OFFICIAL COPY
Sep 26 2023

Statistical Analytics

Overview and Approach

To respond to the Commission's Rate Case Orders), a statistical model was developed by the Companies to assess a number of attributes impacting low-income customers. Three models were created: (1) Likelihood of low-income customers to meet the arrears definition; (2) Likelihood of low-income customers that receive a 24-hour disconnect notice; and (3) Likelihood of low-income customers to be disconnected given that they received a 24-hour DNP notice to be disconnected. Sub-team A identified areas where additional statistical analysis could potentially be helpful to expand on the descriptive analytics to support the objectives of the LIAC. Duke Energy committed to enhancing the analytics to support the affordability assessment. That analysis was presented in March 2022 in the NC Low Income Collaborative Analytics – Version 4 (Analytics) and is discussed below.

Three research questions were assessed using logistic regression techniques:

1. whether low-income customers are likely to be at-risk of: (i) meeting Duke Energy's arrears definition, (ii) at risk of receiving a 24-hour disconnect notice, or (iii) being disconnected after receiving a 24-hour disconnection notice (hereinafter referred to as the "arrears model");
2. whether low-income customers receive a 24-hour disconnect notice; and
3. whether low-income customers are disconnected given that they received a 24-hour DNP notice to be disconnected.

Logistic regression models are classification models that provide insight into questions dichotomous in nature (yes or no, 0 or 1, etc.) and are helpful for providing insight into the above questions. Each outcome (being in the at-risk group, receiving a 24-hour DNP notice, and being disconnected) is measured using a "0" for customers in the samples who do not meet each specific outcome and a "1" for those who did. The logistic regression models then assessed the relationship between each outcome and certain predictors, which included the same 11 attributes from the prior descriptive analysis: home value, electric burden, summer load, winter load and heat source, age of customer, age of home, race, household size, population density, housing status and type, and education.

The sample sizes for each model are as follows: 691,693 low-income customers were included in the arrears model; 215,574 were included in the 24-hour disconnection notice model; and 186,081 were included in the disconnection model. These numbers differ slightly from the totals in the descriptive analysis as some records had to be dropped during analysis given missing data for some of the variables. The modeling results are presented in Appendix A - Table 1 and discussed below.

Analytical Results: Arrears Definition

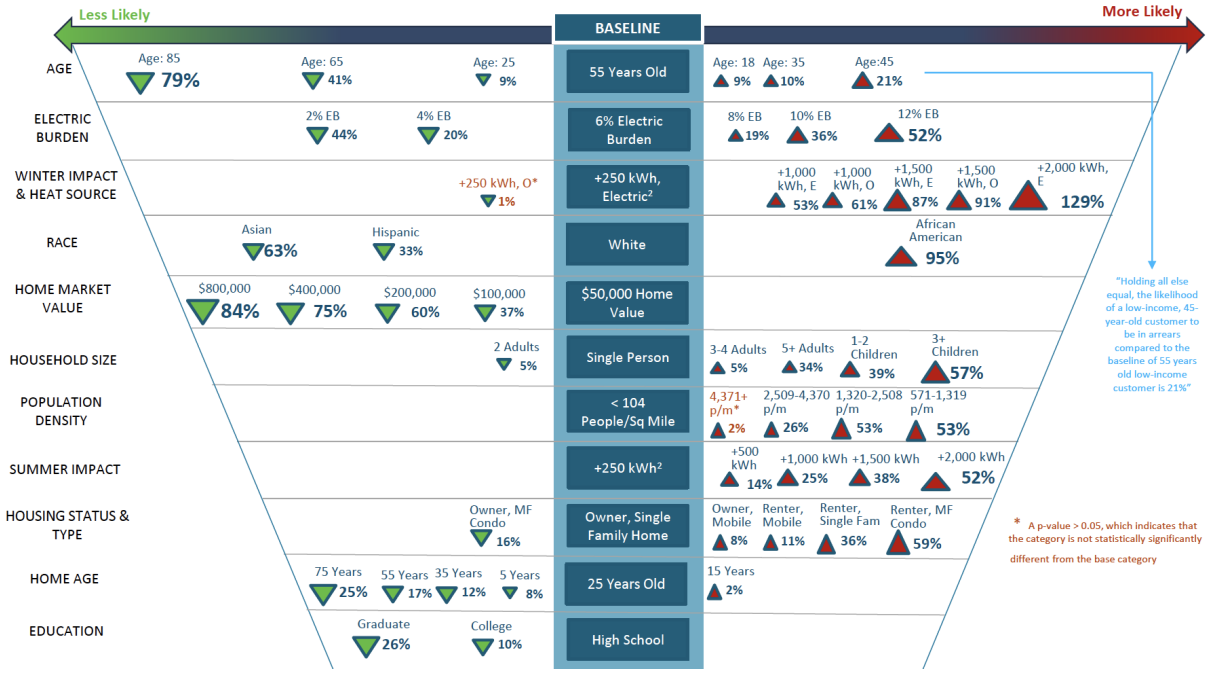
Figure 1 below and Model 1 of Appendix A - Table 1 present the results of the arrears definition model and show the likelihood that low-income customers either meet the arrears definition, receive a 24-hour DNP notification, or are disconnected from service based on the predictors. The following summarizes the relationship modeled between this outcome and each predictor compared to a baseline within each predictor (e.g., all age categories were compared to a baseline

OFFICIAL COPY
Sep 26 2023

of 55 years old). Statistically insignificant results are included but are indicated in red and with an asterisk (*) in Figure 1. Statistically insignificant results are not bolded in Appendix A - Table 1.

In the discussion below, the results are grouped by similar categories with age, race, education and household size grouped under "Demographics," electric burden and energy intensity measures grouped under "Energy Use," and so on for other measures that capture an overall category of variables.

Figure 1. Arrears Model Results



Demographics

Age (Baseline: 55 years old): The results show that households where the primary account holder was 18, 35, and 45 years old[5] were more likely to meet the arrears model outcome than households where the primary account holder was 55 years old.

Those households where the primary account holder was 45 years old were 21% more likely than the baseline of 55 years old), followed by 35 years old (10% more likely) and 18 years old (9% more likely). Households where the primary account holder was 85-years old were 79% less likely to meet

[5] The relationship between age and our outcomes were found to be non-linear in the modeling. In other words, the underlying change in the relationship between age and the arrears model outcome does not stay constant over time and a straight line cannot be drawn through the points when the outcome and age are plotted. In order to allow this relationship to be more dynamic, the age variable enters into the model as a piecewise continuous measure, which gives results based on specific ages rather than a range of ages. Therefore, age is handled differently in the statistical analysis than it was in the descriptive analysis, where ranges/categories of age were used. The same approach is used for age of home and home value as well.

OFFICIAL COPY
Sep 26 2023

the arrears definition than a 55-year old account holder, and 65-years old 41% less likely. Age 25-year households were 9% less likely.

Further analysis would be necessary to explore the pattern across younger households more deeply. Future areas of research might include exploring whether younger customers are less likely to have savings or other liquid assets to draw upon in order to pay their bills; whether they might be more likely to live in older, low-value or rental homes that are energy inefficient; and, finally, whether they might be more likely to overlook deadlines and/or be distracted by competing demands of work and family. .

Race (Baseline: white): Compared to white households, Asian and Hispanic households were much less likely (63% and 33%, respectively) to meet the arrears model definition. However, Black households were 95% more likely to meet the arrears definition, and thus, more likely to be within the samples for the following two models for 24-hour disconnection notice outcome and disconnection outcomes.

Education (baseline: high school degree): The results show that as the education level of an account holder increases, they are less likely to meet the arrears model definition. Since it is expected that they earn a higher salary, they are also more likely to be able to afford their electric bill. Those with a college degree were 10% less likely, and those with a graduate degree 26% less likely to meet the arrears model definition than those with only a high school diploma.

Household Size (baseline: single person household): The results show that once a household goes beyond 2 adults, the larger a household is the more likely it is to meet the arrears model definition. Households with 3 to 4 adults are only slightly more likely (5%) to meet the arrears model definition than a single-person household, but that likelihood increases to 34% more likely once there are 5 or more adults in a household. Adding children increases the likelihood of meeting the arrears model definition, with 1-2 children making the household 39% more likely to meet the arrears model definition and 3 or more children increasing that to 57% more likely.

Energy Use

To assess the role that energy intensity and electric burdens may have in influencing whether a household falls into arrears, the models included predictor variables that captured the electric burden in a household, the winter impact for households with electric heating, the winter impact for households with other types of heating, and the summer impact. All variables were included simultaneously in the model. Therefore, when looking at the results for electric burden, these results indicated the likelihood of a household meeting the arrears model definition after controlling for the intensity of use represented in the winter and summer impact measures.

Electric Burden (Baseline: 6% of gross household income): The results show that a higher electric bill burden corresponds to a higher likelihood of meeting Duke Energy's arrears model definition. At an 8% electric burden a household is 19% more likely to meet the arrears definition, 36% more likely with a 10% electric burden, and 52% more likely with a 12% electric burden. Conversely, lower electric burdens were associated with households being less likely to meet the arrears model definition: 20% less likely with a 4% electric burden and 44% less likely at a 2% electric burden. This result strongly suggests that lowering a household's electric burden below the 6% threshold can have a significant impact on electric bill affordability for low-income households.

OFFICIAL COPY
Sep 26 2023

Winter Impact and Heat Source (Baseline: winter monthly energy use 250 kWh higher than average usage, and all-electric): The model shows that higher differences between average monthly usage in winter months and the overall annual average monthly usage result in a greater likelihood of meeting the arrears model definition. Compared to the baseline, all-electric homes using 1,000 kWh more electricity per month in winter are 53% more likely to meet the arrears model definition, while those using 1,500 kWh more are 87% more likely and at 2,000 kWh more are 129% more likely.

Households that use non-electric heating sources have a higher likelihood of meeting the arrears model definition, with those using 1,000 kWh more being 61% more likely and those using 1,500 kWh more being 91% more likely. In addition, because non-electric households are being compared at the same level of increased electricity usage (e.g. 1,000 kWh more on average in winter months) but are also paying for non-electric heating bills, which will add more strain on their ability to afford and pay their electric bill since heating the home would be the top priority[1].

It is notable that observed variations in winter energy use impact have a substantially higher influence over whether a household meets the arrears definition than do the variations analyzed for any other category. In part this makes sense because an average monthly usage that is 2,000 kWh higher in winter than on an annual basis results in a substantially higher electric bill each month during winter, which is difficult to afford for many low-income households. The results for this category strongly suggest that improving a household's energy efficiency through air sealing, insulation, and energy efficient heating systems could substantially reduce a household's likelihood of meeting the arrears definition.

Summer Impact (baseline: summer monthly energy use 250+ kWh higher than average usage): The results for summer impact reflect those for winter impact in that higher usage in summer months for cooling increases the likelihood of meeting the arrears definition. However, it is notable that the impact on the likelihood of meeting the arrears definition is substantially smaller in the Summer Impact category than in the Winter Impact category at the same variance level (e.g. 1,000 kWh).

House Attributes

The statistical analysis included measures for the value of a home, its age, and for housing tenure (renter or owner) by housing type (mobile home, single family home, multi-family home)[6]. Overall, the results show that when controlling for a home's value and age, owners are generally less likely than renters to meet the arrears model definition.

Home Market Value (baseline: $50,000): Higher value homes were substantially less likely to fall into arrears, with each additional $100,000 in value decreasing the likelihood by 15% on average. Homes valued between $100K to $199K were 37% less likely, between $200K to $299K 60% less likely, and so on. These results could be because these homes are more energy efficient compared to lower value homes, and thus result in higher value homes being less likely to meet the arrears definition. But the model also controlled for some elements of energy intensity, which may capture some of the variation in energy efficiency.

Home Age (baseline: 25 years old/since construction): In general, older homes in this analysis were less likely to meet the arrears definition. Although the results for home age may appear surprising at first given that many expect an older home to be less energy efficient, the model also includes a

[6] Age of home and home value enter the model as piecewise continuous measures to better capture non-linear relationships between the outcomes in the models and these predictors. See footnote 5 for further explanation.

OFFICIAL COPY
Sep 26 2023

measure of home value as well as housing type and other measures that may capture energy intensity. Some of the impact of age may be captured by those variables. Other potential explanations include factors such as outdated building codes, the affordability of newer homes versus older homes, etc may also be influencing the outcome. Only homes at 15 years old were more likely to meet the arrears definition than the baseline, but only by 2%.

Housing Status and Type (baseline: owner-occupied, single-family home): Across all combinations, renters were more likely to meet the arrears model definition than owners. Renters living in multi-family condos had the greatest likelihood at 59% more likely than the baseline, while renters and owners of mobile homes, while still more likely than the baseline, had the smallest increases in likelihood at 11% and 8%, respectively. Owners of multi-family condos were 16% less likely to meet the arrears model definition.

Neighborhood Attributes

Population Density (baseline: less than 104 households or housing units/square mile): Finally, the model included a measure for population density to assess the relationship between the outcome of interest and how urban or rural a community is. The US Census Bureau considers an area to be "urban" if there are 420 or more housing units per square mile. The categories used in our modeling does not easily reflect this shift from urban to rural but the 104-570 housing units per square mile category can serve as a proxy. Those categories above the 104-570 category would be becoming increasingly more urban. Compared to a sparsely populated area with less than 104 houses per square mile, all other population densities showed a higher likelihood of a household meeting the arrears definition. There seems to be a tipping point, however, after an area reaches more than 2,500 housing units per square mile where the magnitude of the increase in the likelihood dips by 50% for the two highest density categories. A densely populated area with between 2,509 and 4,370 people per square mile was 26% more likely to meet the arrears definition than the baseline, while a density of 571 to 1,319 people per square mile was 53% more likely. And although the trend continued for even more densely populated areas, the result for the highest density was not statistically significant.

Analytical Results: 24-Hour DNP Notice

Under Commission Rules, the Companies are required to take a number of steps to notify customers that their service is eligible for termination for nonpayment prior to disconnection. One of those final steps requires the Companies to send a notice to the customer at least 24 hours in advance to a proposed disconnection for nonpayment (24-hour notice) before disconnecting a customer for non-payment. This analysis reviews the customers that receive the mandatory notices from the Companies, whether they are ultimately disconnected or not.

Figure 2. 24-hour Notification of Disconnection for Non-Payment

OFFICIAL COPY
Sep 26 2023

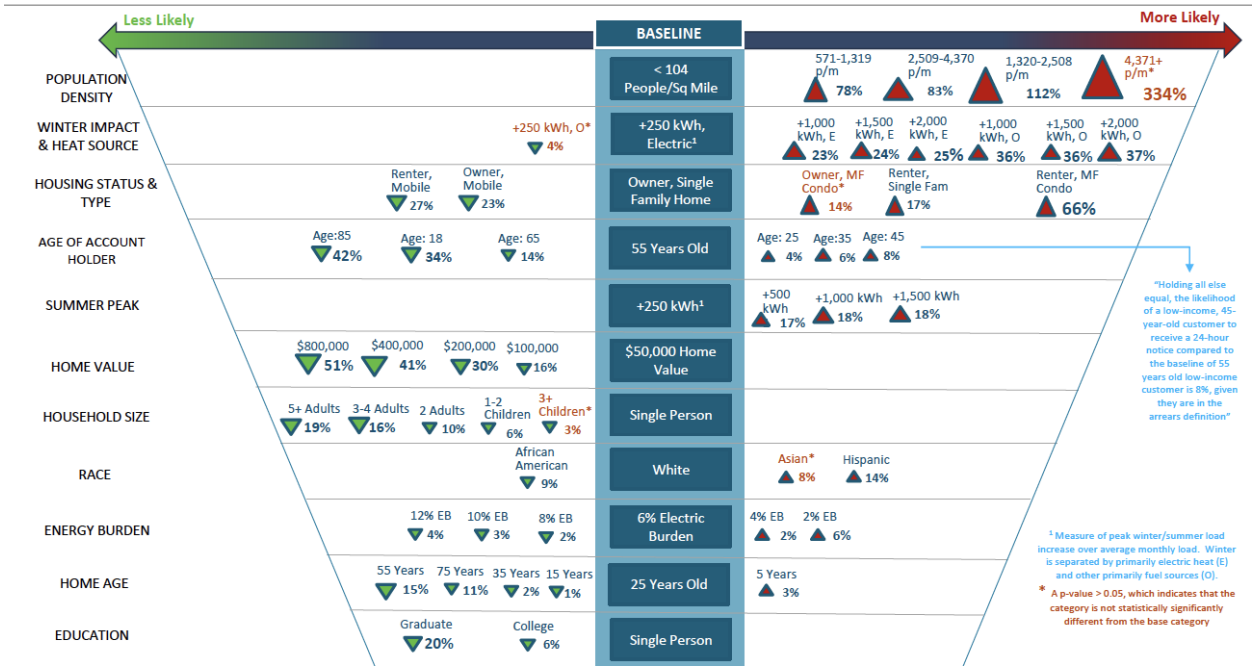


Figure 2 above presents the results showing the likelihood of those low-income customers who met the definition of arrears from the prior arrears model to receive a 24-Hour Notice for disconnection. The following summarizes the variation within the category based on a selected baseline.

Demographics

Age (baseline: 55 years old): Just as in the arrears model, account holders who were 85 years old led the way (42%) in being less likely to receive a notice and 65 year olds were also less likely (14%). Account holders who were 25, 35, and 45 years old were 4%, 6%, and 8%, respectively, more likely to receive notice. And, although they were more likely to meet the arrears model definition, 18 year olds were substantially less (34%) likely to receive a 24-hour notification. As mentioned in the arrears model section, there could be many reasons for this including limited savings or liquid assets, less efficient homes, and behavior around paying attention to their bills.

Race (baseline: white households): Although the arrears model showed that Hispanic households were 33% less likely to be in the group at risk of receiving a 24-hour notice, the results predicting the likelihood of receiving a notice given that a Hispanic household is at risk of receiving a notice show that Hispanic households were 14% more likely to receive a notice. The reverse pattern is present for Black households. Although Black households were 95% more likely to be in the at-risk group for receiving a notice, those who fell into the at risk category were 9% less likely to receive a notice. The results for Asian households were not significantly different from white households in receiving a notice.

Education (baseline: high school degree): The trend within the arrears model for age was present in the 24-hour notice model as well. Even once they are within the group at risk of receiving a 24-hour notice, account holders with a college or graduate degree were less likely (6% and 20% respectively) to receive a notice.

OFFICIAL COPY
Sep 26 2023

Household Size (baseline: single person household): Although the arrears model showed that larger households were more likely to be at risk of falling behind (or meeting the arrears model definition), within the at risk group a larger household is less likely to receive a notice. Households with more adults are between 10% and 19% less likely. And, interestingly, households with children present were only 6% less likely to receive a notification when compared to the baseline and the results for more than 3 children were not found to be statistically significantly different from the single person households. This indicates that families with children are more likely to receive a notice than situations where multiple adults are present.

Energy Use

Electric Burden (baseline: 6% Electric Burden): The results for the 24-hour notice outcome show that households with lower electric burdens were more likely to receive a notice. Once again, it is important to remember that this result is conditional upon these households having met the definition for being in arrears that was operationalized in the previous model. So, the sample includes only those households who met the arrears definition. Those households in arrears with higher electric burdens were less likely to receive a notice. Deeper analysis would be needed to explore these findings but perhaps seasonal policies are proving protective for those with higher electric burdens.

Winter Impact & Heating Source (baseline: winter monthly energy use +250 kWh higher than average, and all electric): Among those households that meet the definition for being in arrears that were operationalized in the arrears model, increased winter usage above baseline consistently corresponded to higher likelihood of 24-hour notice. The range of increase was between 23% and 37% above baseline whereas a households increased winter usage increased the likelihood of meeting the arrears model definition in the arrears the range was 53% to 129% above baseline.

<u>As previously mentioned, the results for this category strongly suggest that improving a household's energy efficiency through air sealing, insulation, and energy efficient heating systems could substantially reduce a household’s likelihood to receive a 24-hour DNP notice.</u>

Summer Impact (baseline: summer monthly energy use +250 kWh higher than average use): For households meeting the arrears model definition with higher summer usage of 500, 1,000, and 1,500 kWh, the households had virtually the same increased likelihood of receiving a notice of 17-18%.

House Attributes

Home Market Value (baseline: $50,000-$99,999): A consistent trend showed the larger the home value then the less likely that household is to receive a 24-hour notice. A $100,000 home was 16% less likely while a $800,000 home was 51% less likely.

Home Age (baseline: 25 years old/since construction): The range in this category was between 3% more likely for a 5 year old home and 15% less likely for a 55 year old home. Once again, these results are conditional upon the household meeting the definition of the positive outcome in the arrears model. In addition, the model controls for the home value and energy intensity measures, which may capture some of the energy inefficiencies that could be expected to be present in older homes.

Housing Status & Type (baseline: owner, single family home): Among those households meeting the arrears model definition, mobile home owners and renters were less likely (23% and 27%

OFFICIAL COPY
Sep 26 2023

respectively) to receive a notice. Renters of single-family homes were 17% more likely and renters of multi-family condos were 66% more likely to receive notice above baseline.

Neighborhood Attributes

Population Density **(***baseline: <104 households or housing units per square mile):* Density had a similar effect for households at risk of receiving a 24-hour notice. The general trend showed that higher population densities corresponded to increased likelihood of receiving a 24-Hour Notice. The baseline category and the 104-570 housing units per square mile most closely approximate rural areas. Households in the most sparsely populated area (the baseline) were 58% less likely to receive a notice than those in areas with 104-570 housing units. The highest density category was once again not significantly different from the baseline. But densities in between show an almost bell-shaped curve with 571-1319 housing units per being 78% more likely to receive a notice, between 1320-2508 housing units per square mile being 112% more likely, and between 2,509-4,370 housing units per square mile being 83% more likely.

Analytical Results: Disconnection for Non-Pay

Figure 3. Disconnection for Non-Pay Modeling Results

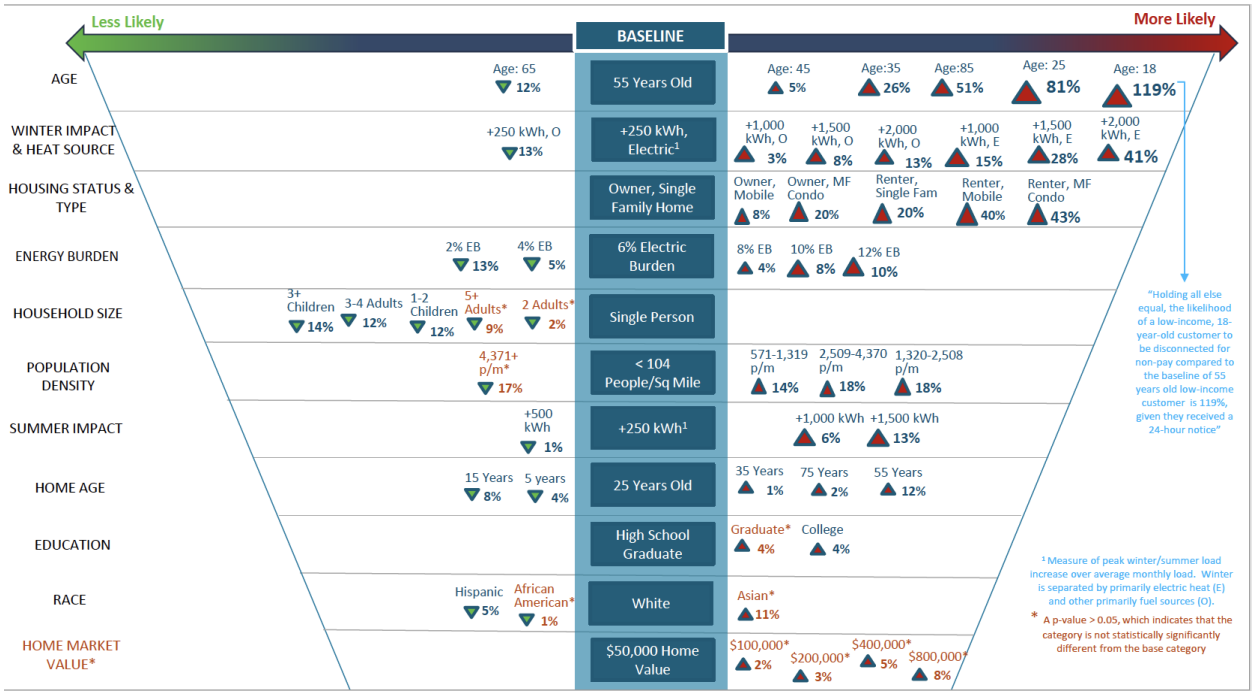


Figure 3 above presents the results showing the likelihood of low-income customers to be disconnected given that they received a 24-hour DNP notice to be disconnected. In other words, the sample for this model includes all of the low-income households that did receive a notice in the 24-hour DNP notification model discussed previously. The following summarizes the variation within the category, compared to a selected baseline.

Demographics

OFFICIAL COPY
Sep 26 2023

Age (baseline: 55 years old): The DNP analysis generally shows that, with one exception (65 years old) all householders whose ages are reported were more likely to meet the arrears definition than the baseline household. Further,, the younger the household compared to the baseline, the more likely it was to meet the arrears definition. Those households where the primary account holder was 45 years old were only 5% more likely than the 55-year old category, followed by 35 years old (26% more likely), 85 years old (51% more likely), 25 years old (81% more likely) and 18 years old (119% more likely). The results for 25 year old account holders were found not to be statistically significantly different from the baseline.

Further analysis would be necessary to explore the factors driving the trend of younger households being more likely to experience a DNP. Once again, however, it is important to remember that the model attempts to isolate the relationship between age and the outcome and includes controls to account for many other factors that could lead to financial instability, including education, household size, race, etc.

Race (baseline: white households): Conditional on having received a 24-hour notice, Hispanic households were 5% less likely than white households to be disconnected. Results for Black and Asian account holders were found not statistically significantly different from the baseline.

Education (baseline: high school): While the arrears analysis found that the more education a household/account holder receives, the less likely they were to meet the arrears definition, the DNP analysis shows that higher education households (college) are more 4% more likely to be disconnected than households with high school education levels. Again though, the sample of account holders in the DNP model is based on being a low-income household that receives a 24-hour notice and the model controls for other sociodemographics. This result indicates that once a household is in arrears and has received notice, education level is no longer protective. The magnitude of the increased likelihood is small at 4% though. The results on the graduate education level were statistically insignificant.

Household Size (baseline: single person household): The models for the DNP analysis show that, conditional on having received a 24-hour notice, larger households are less likely to experience a disconnection for non-payment. Households with 3-4 adults were 12% less likely to be disconnected than 1-adult households and households with 1-2 children were 12% less likely and 3+ children 14% less likely to experience a DNP.

Energy Use

Electric Burden (baseline: 6% of gross household income): A higher electric bill burden corresponds to a higher likelihood of experiencing a disconnection for non-payment. With an 8% electric burden, a household is 4% more likely to be disconnected, 8% more likely with a 10% electric burden, and 10% more likely with a 12% electric burden.

Conversely, lower electric burdens result in households being less likely to be disconnected from service: a household is 5% less likely with a 4% electric burden and 2% less likely at a 2% electric burden. This result strongly suggests that lowering a household's electric burden below the 6% threshold can have a measurable impact on avoiding disconnections

Winter Impact and Heat Source (baseline: winter monthly energy use 250 kWh higher than average usage, and all electric): The DNP model shows that a higher difference between average monthly electricity usage in winter months and annual electricity usage, the greater the likelihood of

OFFICIAL COPY
Sep 26 2023

experiencing a DNP. Compared to the baseline, all-electric homes that use 1,000 kWh more electricity per month in the winter are 53% more likely to meet the arrears definition, while those using 1,500 kWh more are 87% more likely and at 2,000 kWh more are 129% more likely.

Interestingly, conditional on having met the arrears model definition and the 24-hour notice model definitions, low-income households that use non-electric heating sources, while more likely to experience a DNP than the baseline, were substantially less likely than their all-electric counterparts. For instance, a household identified as using a non-electric primary heat source, but that used 1,000 more kWh per month in the winter than on an annual basis, was found to be only 3% more likely than the baseline to experience a DNP. However, an all-electric home at the same level of variance was 15% more likely to experience a DNP than the baseline. Those values for a home at the 2,000 kWh level were 13% and 41%, respectively. Further analysis would be necessary to explore this result more. Regardless, the results for this category strongly suggest that improving a household's energy efficiency through air sealing, insulation, and energy efficient heating systems could substantially reduce a household's likelihood of experiencing a DNP.

Summer Impact (baseline: summer monthly energy use 250+ kWh higher than average usage): The results for summer impact largely reflected those for winter impact in that higher usage in summer months for cooling increases the likelihood of being disconnected. The one exception is the 500 kWh category, the category closest to the baseline, which was 1% less likely to be disconnected. Given such a small magnitude in the impact of this category on the relationship to the outcome, the overall trend that higher summer impact increases the likelihood of a disconnection holds.

House Attributes

Home Market Value (baseline: $50,000-$99,999): The DNP analysis shows, conditional on having received a 24-hour notice, a low-income household is more likely to experience a disconnection. However, none of the results were found to be statistically significant. Therefore, there is little confidence that they are any different than the baseline households likelihood. This would suggest that once a household has received a 24-hour notice, home values have little explanatory value in predicting whether the household will experience a disconnection.

Home Age (baseline: 25 years old/since construction): Conditional on meeting the arrears model definition and receiving a 24-hour notice, low-income households living in older homes were more likely to experience disconnection than households living in homes built more recently. Households in homes constructed 5 years ago were 4% less likely to experience a disconnection and those in homes constructed 15 years ago they were 8% less likely. Households living in homes built 35 years ago were only 1% more likely to experience disconnection than the baseline home, while those in homes built 55 years ago were 12% more likely.

Housing Status and Type (baseline: owner, single-family home): The DNP model shows that being a renter results in a greater likelihood of experiencing a DNP than owners. The results for housing type were also the same, with the likelihood of a renter of a single-family home experiencing a DNP (20% greater than the baseline) being less than that of a mobile home (40%) or multi-family condo (43%). In other words, occupants of single family homes were less likely than occupants of mobile homes and multifamily condos to experience a DNP, regardless of whether the occupant owned or rented the home, and renters were more likely than owners to experience a DNP.

Neighborhood Attributes

OFFICIAL COPY
Sep 26 2023

Population Density (baseline: less than 104 people/square mile): Compared to a sparsely populated area, all other population densities showed a higher likelihood of experiencing a DNP. However, there is no clear pattern in the results. However, it is notable that for arrears, households in the lowest population density (other than the baseline) were the most likely to meet the arrears definition compared to the baseline, while for DNP's they are the least likely.

What are Some Conclusions to be Drawn from the Analytics?

In general, most of our predictors had statistically significant impacts[7] on the likelihood of a low-income customer to meet Duke Energy's definition of arrears and/or being at risk of receiving a notice and being disconnected from service for non-payment. The key factors that both significantly predicted being in arrears and are issues programs and policies could mostly readily address were electric burden, winter impact, and summer impact. Reducing a household's winter impact seems to show the greatest potential for reducing the likelihood a household will fall into arrears, given that at even one category above the baseline households were 53% more likely to be in arrears and at three categories above, 129% more likely. Electric burden and summer impact were similar in the magnitude of their effects for groups above the baseline categories. But reducing a household's electric burden would presumably also address financial insecurity overall as it reduces the overall amount of income going towards electric bills. House attributes were also statistically significant at predicting being in arrears and suggest that focusing on renters overall across all types of homes could reduce the likelihood of households falling into arrears. Demographic and neighborhood characteristics were statistically significant in predicting being in the arrears category as well. These results may provide guidance for targeting outreach efforts to certain social groups, neighborhoods, and areas but it is difficult to identify patterns regarding age, home value, and age of home given that the variables showed non-linearity in the models. Race, education, and the size of a household were significant predictors as well and indicate that focusing on low-income customers living in households with children, low-income Black account holders, and low-income account holders with post-secondary education may reduce the likelihood a household falls into arrears.

Conditional, however, on falling into the arrears category, the predictors that show the most statistical and policy significance for affecting the likelihood a customer received a 24-hour notice of disconnection for non-payment were those related to energy use, with winter impact once again showing the greatest magnitude among the energy use categories. And, finally, for those households receiving a 24-hour notice, energy use and housing tenure were both statistically and practically significant. It appears that focusing on reducing usage in both winter and summer and/or focusing on renters generally would reduce the likelihood of disconnections once a household has received a notice. Reducing a household's electric burden would also reduce the likelihood of disconnections. We do note, however, that account holders with higher electric burdens were less likely to receive a 24-hour notice. More research would be needed to explore why this is, but households with high electric burdens may be making partial payments that postpone disconnection but do not bring their accounts fully up to date.

[7] As shown in the Analytics pages 27-29, a p-value > 0.05, indicates that the category is not statistically significantly different from the base category. Those categories are highlighted with a red asterisk. All other categories were statistically significantly different from the base category.

OFFICIAL COPY
Sep 26 2023

These findings suggest that energy use factors are the critical factors to target in the design of interventions aiming to address electric affordability challenges for low-income customers. Reducing winter impact would be a promising target.

OFFICIAL COPY
Sep 26 2023

Appendix A. Logistic Regression Modeling Results

			Model 1		Model 2		Model 3
			% Change in the Likelihood of Being in the At-Risk Group Among Those Who Fall Below 200% of the Fed Poverty Level		*% Change in the Likelihood of Receiving a 24-hour DNP Notice Among Those in the At-Risk Group*		*% Change in the Likelihood of Being Disconnected Among Those Receiving a 24-hour DNP Notice*
Demographics							
	Age						
		18 years	**9%**		**-34%**		**119%**
		25 years	**-9%**		**4%**		81%
		35 years	**10%**		**6%**		**26%**
		45 years	**21%**		**8%**		**5%**
		55 years	----------*Omitted as Baseline*----------				
		65 years	**-41%**		**-14%**		**-12%**
		85 years	**-79%**		**-42%**		**51%**
	Race						
		Black	**95%**		**-9%**		-1%
		Asian	**-63%**		8%		11%
		Hispanic	**-33%**		**14%**		**-5%**
		White	----------*Omitted as Baseline*----------				
	Education						
		High School	----------*Omitted as Baseline*----------				
		College	**-10%**		**-6%**		**4%**
		Graduate	**-26%**		**-20%**		4%
	Household Size						
		Single Adult	----------*Omitted as Baseline*----------				

OFFICIAL COPY
Sep 26 2023

		2 Adults	**-5%**		**-10%**		-2%
		3-4 Adults	**5%**		**-16%**		**-12%**
		5+ Adults	**34%**		**-19%**		-9%
		1-2 Children	**39%**		**-6%**		**-12%**
		3+ Children	**57%**		-3%		**-14%**
Energy Use							
	Electric Burden						
		2%	**-44%**		**2%**		**-13%**
		4%	**-20%**		**4%**		**-5%**
		6%	----------*Omitted as Baseline*----------				
		8%	**19%**		**-2%**		**4%**
		10%	**36%**		**-3%**		**8%**
		12%	**52%**		**-4%**		**10%**
	Winter Impact by Heat Source						
		Electric					
		250-999 kWh	----------*Omitted as Baseline*----------				
		1000-1499 kWh	**53%**		**23%**		**15%**
		1500-1999 kWh	**87%**		**24%**		**28%**
		2000+ kWh	**129%**		**37%**		**41%**
		Other					
		250-999 kWh	-1%		-4%		**-13%**
		1000-1499 kWh	**61%**		**36%**		**3%**
		1500-1999 kWh	**91%**		**36%**		**8%**
		2000+ kWh			**37%**		**13%**
	Summer Impact						
		250-499 kWh	----------*Omitted as Baseline*----------				
		500-999 kWh	**14%**		**17%**		**-1%**
		1000-1499 kWh	**25%**		**18%**		**6%**

OFFICIAL COPY
Sep 26 2023

		1500-1999 kWh	**38%**		**18%**		**13%**
		2000+ kWh	**52%**				
House Attributes							
	Home Value						
		$50000-99,999	----------*Omitted as Baseline*----------				
		$100,000-199,999	**-37%**		**-16%**		2%
		$200,000-399,999	**-60%**		**-30%**		3%
		$400,000-799,999	**-75%**		**-41%**		5%
		$800,000+	**-84%**		**-51%**		8%
	Age of Home						
		5 years			**3%**		**-4%**
		15 years	**2%**		**-1%**		**-8%**
		25 years	----------*Omitted as Baseline*----------				
		35 years	**-12%**		**-2%**		**1%**
		55 years	**-17%**		**-15%**		**12%**
		75 years	**-25%**		**-11%**		**2%**
	Housing Tenure by House Type						
		Owners					
		Mobile Home	**8%**		**-23%**		**8%**
		Single Family	----------*Omitted as Baseline*----------				
		Multi-Family/Condo	**-16%**		14%		**20%**
		Renters					
		Mobile Home	**11%**		**-27%**		**40%**
		Single Family	**36%**		**17%**		**20%**
		Multi-Family/Condo	**59%**		**66%**		**43%**
Neighborhood							
	Population Density (Count of households per square mile)						

OFFICIAL COPY
Sep 26 2023

		Less than 104	----------*Omitted as Baseline*----------				
		104-570	**56%**		**58%**		**52%**
		571-1319	**53%**		**78%**		**14%**
		1320-2508	**53%**		**112%**		**18%**
		2,509-4370	**26%**		**83%**		**18%**
		4371+	2%		334%		-17%
Observations (No. of Customers in Sample)							
			691,693		215,574		186,081
Notes:							
The US Census Bureau considers an area to be "urban" if the population density is greater than 420 housing units per square mile. **Bold results** were statistically significant with a p-value of less than 0.05.							

OFFICIAL COPY

Sep 26 2023

APPENDIX E – LIAC

LIAC WORKSHOP VIII

DOCKET NOS. E-7, SUB 1213; E-7, SUB 1214; E-7, SUB 1187; E-2, SUB 1219 AND E-2, SUB 1193

OFFICIAL COPY
Sep 26 2023

Guidehouse

North Carolina

Low Income Affordability Collaborative

Workshop 8

June 9, 2022

Convened by

DUKE ENERGY.

Public Staff
North Carolina Utilities Commission

Guidehouse

OFFICIAL COPY
Sep 26 2023

Welcome

MACIE SHOUN
Workshop Facilitator

NNEOMMA NWOSU
Workshop Support

40-50
active LIAC participants

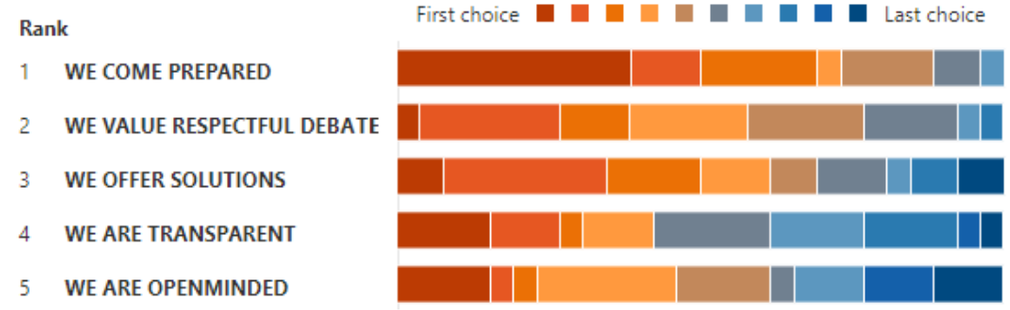
Organizational Representation

- Charitable / Social Aid
- Univ
- Trade Association or Interests Group
- Utility
- Government

4 LIAC subteams

A B C D

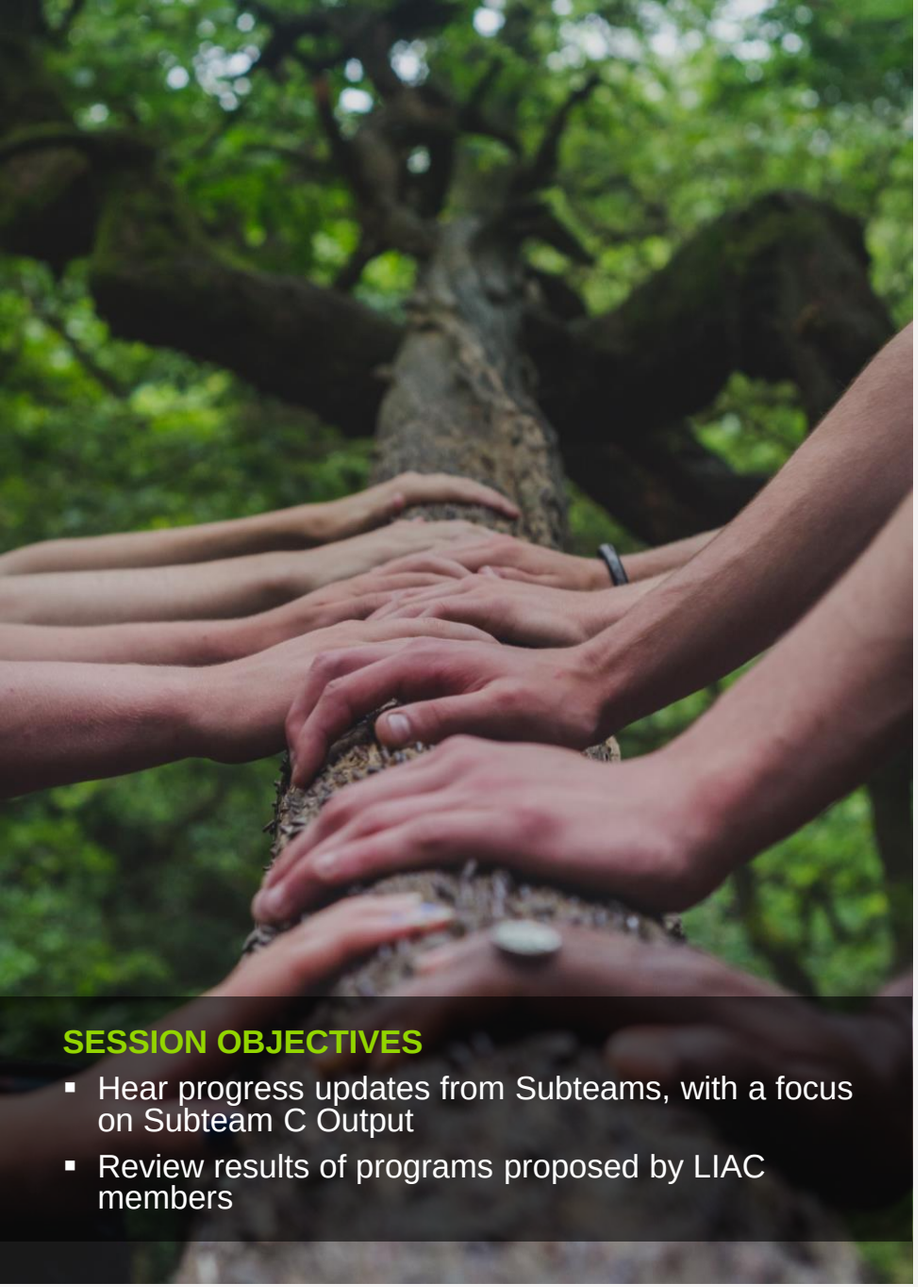
Top Guiding Principles



OFFICIAL COPY
Sep 26 2023

NC Low Income Collaborative

Agenda | June 9, 2022



SESSION OBJECTIVES

- Hear progress updates from Subteams, with a focus on Subteam C Output
- Review results of programs proposed by LIAC members

Workshop VIII: Recommendations & Proposal Assessment Results

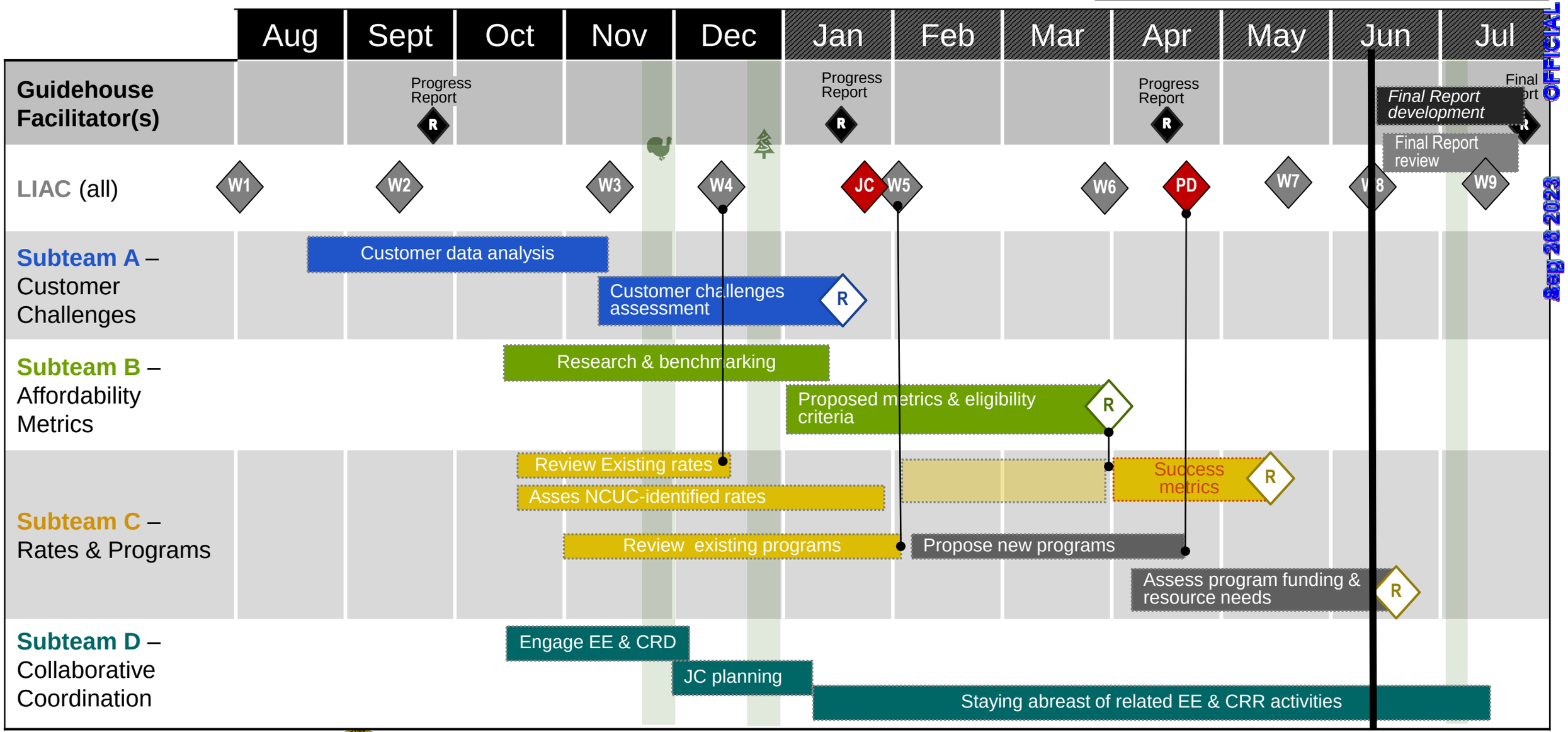
	CONVENE		
PART I	Welcome, Safety & Agenda	*Guidehouse*	60-75 min
	Review of Subteam Updates and Outputs	*Guidehouse*	
	Dep Data Update Cross-subsidy Analysis Task 3b/C	*LIAC Subteam C*	
	Success Criteria and Metrics To Monitor Program Impact Task 3a	*LIAC Subteam C*	
	Funding Sources and Opportunities/ Challenges	*LIAC Subteam C*	
	BREAK		
PART II	Program Proposal Assessment Results	*Guidehouse*	30-60 min
	Round Table	*All (GH Facilitated)*	
	Wrap-up & Look Ahead	*Guidehouse*	
	ADJOURN		

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

CIGFUR III Affordability Panel Settlement Cross Exhibit No. 3
Page 257 of 548
Docket No. E-7, Sub 1276

LIAC Macro Timeline | *as of 6/2/2022*

KEY
- W — Regular LIAC Workshop
- JC — Joint Collaborative Session
- RO — Subteam Readout
- PD — Program Proposal Pitch Day



OFFICIAL COPY
Sep 26 2023

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

REVIEW OF SUBTEAM OUTPUTS AND UPDATES

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Key Subteam Activities

SUBTEAM A

Prepare an assessment of current affordability challenges facing residential customers

SUBTEAM B

Develop suggested metrics or definitions for "affordability"

SUBTEAM C

Investigate the strengths and weaknesses of existing rates, rate design, billing practices, customer assistance programs and energy efficiency programs in addressing affordability

SUBTEAM D

Stay abreast of and consider the ongoing work of the comprehensive rate design and the EE collaboratives as they each carry out their work

OFFICIAL COPY
Sep 26 2023

Subteam A Tasks

SUB-TEAM A Customer Challenges
Prepare an assessment of current affordability challenges facing residential customers
1.a-1) Conduct demographic assessment of residential customers with: size of household, property type, household ages, household races, household incomes
1.a-2) Characterize demographics in clusters (where possible)
1.b-1) Estimate the number of customers who are at or less than 150% of federal poverty guidelines
1.b-2) Estimate the number of customers who are at or less than 200% of federal poverty guidelines
1.b-3*) Consider if there are any other low-income thresholds to include
1.c-1) Provide an analysis of patterns and trends for energy usage
1.c-2) Provide an analysis of patterns and trends for non-pay disconnections
1.c-3) Provide an analysis of patterns and trends for payment delinquency histories
1.c-4) Provide an analysis of patterns and trends for account write-offs due to uncollectability

OFFICIAL COPY
Sep 26 2023

Subteam A Recap of Completed Tasks

SUB-TEAM A Customer Challenges			
Task	**Work Product**	**Date Shared with/Sent to LIAC**	**Date Discussed with LIAC**
1.a-1) Conduct demographic assessment of residential customers with: size of household, property type, household ages, household races, household incomes 1.a-2) Characterize demographics in clusters (where possible) 1.b-1) Estimate the number of customers who are at or less than 150% of federal poverty guidelines 1.b-2) Estimate the number of customers who are at or less than 200% of federal poverty guidelines 1.b-3*) Consider if there are any other low-income thresholds to include 1.c-1) Provide an analysis of patterns and trends for energy usage 1.c-2) Provide an analysis of patterns and trends for non-pay disconnections 1.c-3) Provide an analysis of patterns and trends for payment delinquency histories 1.c-4) Provide an analysis of patterns and trends for account write-offs due to uncollectability	Version 4 Analytics (Final)	March 28, 2022 via Email	March 31, 2022 at Workshop 6

OFFICIAL COPY
Sep 26 2023

Subteam B Tasks

SUB-TEAM B **Affordability Metrics**
Develop metrics or definition for "affordability" *(in the context of the Duke Energy's provision of service in NC)*
2.a-1) Research how "affordability" is defined and applied in other jurisdictions (specifically by vertically integrated IOUs) [Explore trends in affordability] 2.b-1) Determine eligibility criteria to be used for affordability programs

OFFICIAL COPY
Sep 26 2023

Subteam B Recap of Completed Tasks

SUB-TEAM B Affordability Metrics			
Task	**Work Product**	**Date Shared with/Sent to LIAC**	**Date Discussed with LIAC**
2.a-1) Research how "affordability" is defined and applied in other jurisdictions (specifically by vertically integrated IOUs) [Explore trends in affordability]	**Affordability Principles** – Subteam B LIAC Presentation	March 31, 2022, at Workshop 6	
2.b-1) Determine eligibility criteria to be used for affordability programs	**Low-income Program Eligibility Analysis** – Subteam B LIAC Presentation		
2. c-1) Develop suggested metrics for affordability in context of Company's provisions of service in its North Carolina service territory	Similar workstream as of Subteam C. LIAC members agreed to address metrics for affordability program in Subteam C workstream		

CIGFUR III Affordability Panel Settlement Cross-Exhibit No. 3
Page 264 of 548
Docket No. E-7, Sub 1276

OFFICIAL COPY
Sep 26 2023

LIAC Subteam C Tasks

SUB-TEAM C
Rates & Program Offerings

Address Commission questions regarding existing rates, rate design, billing practices, customer assistance programs and energy efficiency programs

3.a-1) Define success criteria to be used for affordability programs

3.a-2) Determine metrics to be used to monitor program impact

3.b/c) Assess existing Duke Energy income-qualified programs *(3 tasks)*

3.d) Develop income-qualified program alternatives *(2 tasks)*

3.e) Assess set of Commission-identified rates and programs *(5 tasks)*

3.f) Determine rate impact implications of assessed programs *(4 tasks)*

3.h-1) Determine what practices and regulatory provisions related to disconnections for nonpayment should be modified or revised

3.i-1) Identify existing utility and external funding sources are available to address affordability

3.i-2) Estimate the level of resources that would be required to serve additional customers

3.j-1) Identify opportunities and challenges of the utilities working with other agencies and organizations to collaborate and coordinate delivery of programs that affect affordability concerns

CIGFUR III Affordability Panel Settlement Cross Exhibit No. 3
Page 265 of 548
Docket No. E-7, Sub 1276

OFFICIAL COPY
Sep 26 2023

Recap of Completed Tasks

SUB-TEAM C Rates & Program Offerings			
Task	**Work Product**	**Date Shared with/Sent to LIAC**	**Date Discussed with LIAC**
3.a-1) Define success criteria to be used for affordability programs	Table that defines general program success criteria with metrics to monitor	June 9, 2022 via email	June 9, 2022 at Workshop 8
3.a-2) Determine metrics to be used to monitor program impact	Table that defines general program success criteria with metrics to monitor	June 9, 2022 via email	June 9, 2022 at Workshop 8
3.b/c) Assess existing Duke Energy income-qualified programs	Presentations on current Duke Program Offerings	SSI – June 9, 2022 via email WERP, RRP, & NES - May 19, 2022 via email	SSI – June 9, 2022 at Workshop 8 WERP, RRP, & NES – May 19, 2022 at Workshop 7
3.d) Develop income-qualified program alternatives (Pitch Day)	Program Proposal Process	April 12 via email Completed via email June 9th	April 20 Pitch Day Completed June 9th at Workshop 8
3.e) Assess set of Commission-identified rates and programs	General Statement	June 9, 2022 via email	June 9, 2022 at Workshop 8

CIGFUR III Affordability Panel Settlement Cross-Exhibit No. 3
Page 266 of 548
Docket No. E-7, Sub 1276

OFFICIAL COPY
Sep 26 2023

Recap of Completed Tasks

SUB-TEAM C Rates & Program Offerings			
Task	**Work Product**	**Date Shared with/Sent to LIAC**	**Date Discussed with LIAC**
3.f/g) Determine rate impact implications of assessed programs	Presentation on findings/Summary on Conclusions	December 2, 2021 via email	December 9, 2021 at Workshop 4
3.h-1) Determine what practices and regulatory provisions related to disconnections for nonpayment should be modified or revised	Presentation on Findings and Conclusions	May 19, 2021 via email	May 19, 2021 at Workshop 7
3.i-1) Identify existing utility and external funding sources are available to address affordability	Tables that identifies Utility and External Funding sources	June 9, 2022 via email	June 9, 2022 at Workshop 8
3.j-1) Identify opportunities and challenges of the utilities working with other agencies and organizations to collaborate and coordinate delivery of programs that affect affordability concerns	Table of Opportunities and Challenges for Specific Organizations	June 9, 2022 via email	June 9, 2022 at Workshop 8

CIGFUR III Affordability Panel Settlement Cross-Exhibit No. 3
Page 267 of 548
Docket No. E-7, Sub 1276

OFFICIAL COPY
Sep 26 2023

Subteam C New Information being Shared Today

1. Legal Findings – Task 3e
2. DEP Data Update Cross-Subsidy Analysis – Task 3b/c
3. SSI Overview – Task 3b/c
4. Success Criteria and Metrics to monitor program impact – Task 3a
5. Funding Sources and Opportunities/Challenges – Task 3j/i

OFFICIAL COPY
Sep 26 2023

LEGAL FINDINGS
Task 3e

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Legal Findings

3e: Are the following programs, in addition to any others agreed upon by the collaborative, appropriate for implementation in North Carolina and, if so, what statutory or regulatory changes are necessary to permit implementation:

- minimum bill concepts as a substitute for fixed monthly charges;
- income-based rate plans, such as Ohio's percentage of income payment plan;
- segmentation of the existing residential rate class to take into account different levels of usage;
- expanding eligibility for DEC's current SSI-based program to include additional groups of ratepayers;
- a specific component in rates to be used to fund supplemental support programs,

"The Commission has broad authority under existing North Carolina law, but whether any particular proposal or program may require regulatory or statutory changes to be implemented cannot be determined in the abstract without a more detailed proposal."

DEP/DEC DATA UPDATE CROSS-SUBSIDY ANALYSIS

Task 3b/c

OFFICIAL COPY
Sep 26 2023

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

NC Low Income Collaborative Cross-Subsidy Analysis

June 2022

DUKE ENERGY®

Causes of Cross-Subsidies

OFFICIAL COPY
Sep 26 2023

- Prices do not perfectly match cost-of-service
  - Impractical – cost allocation is often retrospective, while rate design is forward looking

- Utilities are network systems
  - Contains a variety of joint and common system costs that are shared (i.e. socialized) among all customers
  - Cross-subsidies are inherent in network systems
    - i.e. some customers will pay more or less their fair share of the common system costs
    - i.e. some cross-subsidies or “cost shifts” are generally unavoidable in *any* rate design (although nature and magnitude may differ depending on the specific rate design)

Important Notes

OFFICIAL COPY
Sep 26 2023

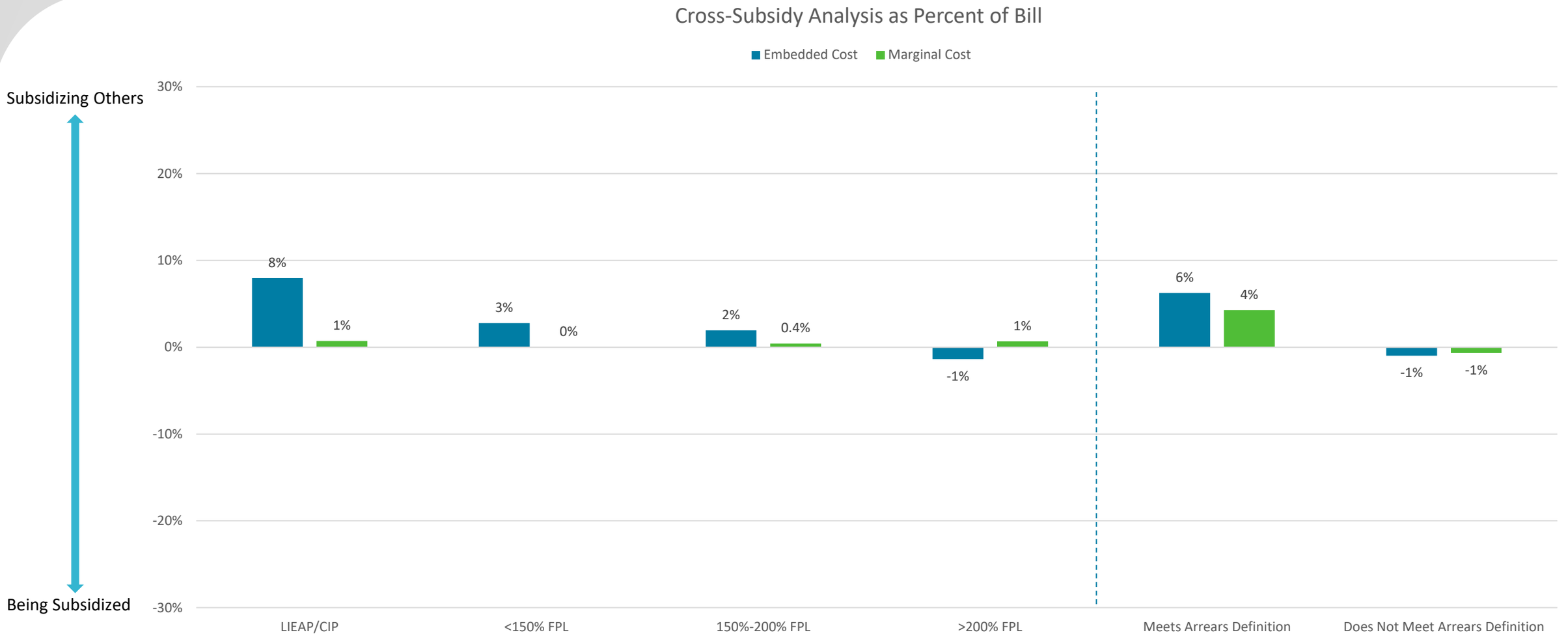
- The cross-subsidy analysis was done using data from the Comprehensive Rate Design Study
  - Key difference is the time period for the CRDS was May 2020 – April 2021 (LIAC time period was March 2019 – February 2020)
    - Different time periods were used due to data needs for non-residential rate schedules reviewed in the CRDS, and wanted all analyses in that collaborative to be in the same time period
- The cross-subsidy analysis is a “point in time” study, and any results should be taken as instructive rather than precise measures
- Analyses relies on commission-approved methodologies for cost of service allocation, rate design allocation, and avoided cost proceedings
  - Changes in the methodologies would impact any cross-subsidy results
- Not all factors, such as location-based factors that affect transmission and distribution costs, could be included
  - For example, distribution costs for rural customers would be higher per capita than customers in a city center, however those costs are not separated by location in the cost of service study

OFFICIAL COPY
Sep 26 2023

Results

Cross-Subsidy Analysis by Income Level and Arrears Status – DEP RES

OFFICIAL COPY
Sep 26 2023



% Total Customers in Category*	3%	12%	8%	63%	12%	88%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

Explanation of Cross-Subsidy Analysis for LIEAP/CIP Recipients – DEP RES

- Embedded Cost: Lower summer CP demands result in relatively fewer costs being allocated to LIEAP/CIP recipients, causing revenues to exceed costs (i.e. they are cross-subsidizing other customers by around $11/bill).

- Marginal Cost: Higher winter CP demands result in relatively more costs being allocated to LIEAP/CIP recipients than in the embedded cost analysis, essentially eliminating this cross-subsidy

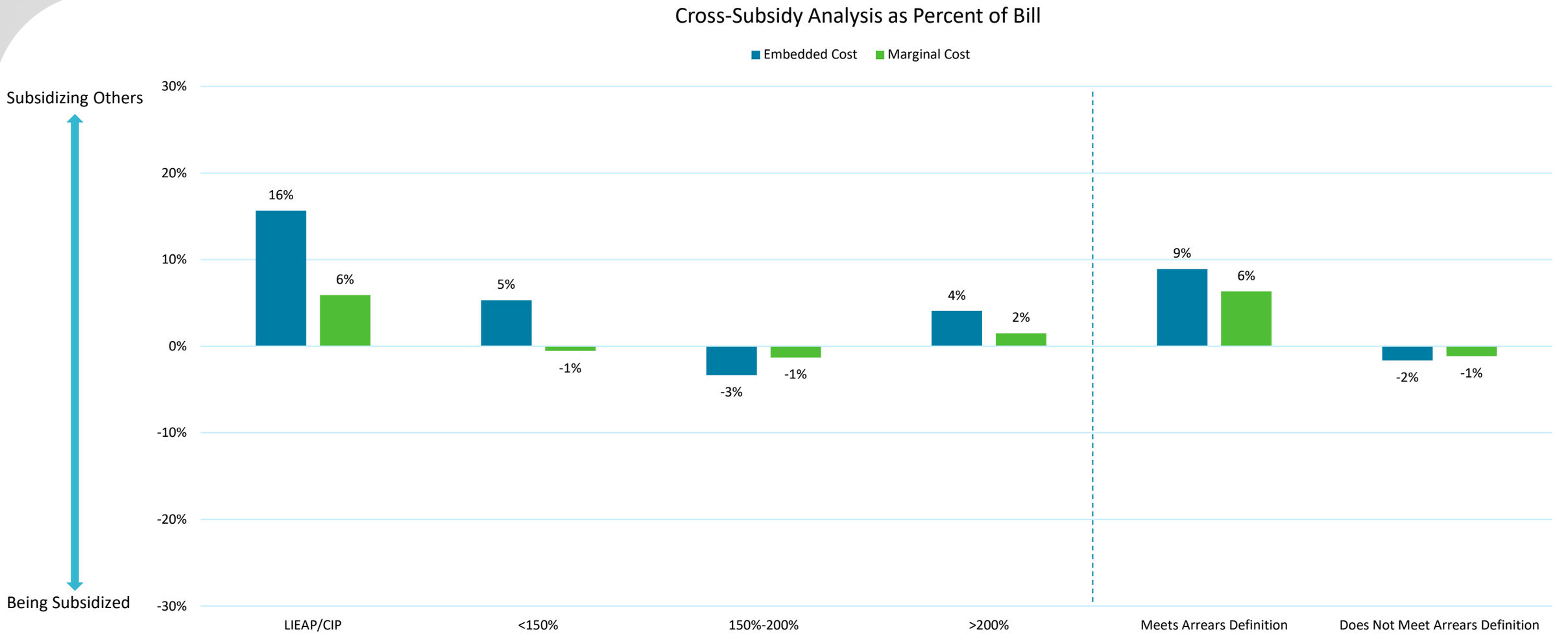
- A straight average of the embedded cost and marginal cost subsidy results in a $6 subsidy per month ($72 per year)

- Higher usage (and thus revenues) year-round for customers that meet the arrearage definition, results in customers paying more than the average customer

OFFICIAL COPY
Sep 26 2023

Cross-Subsidy Analysis by Income Level and Arrears Status – DEC RS

OFFICIAL COPY
Sep 26 2023



% Total Customers in Category*	2%	12%	9%	68%	14%	86%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

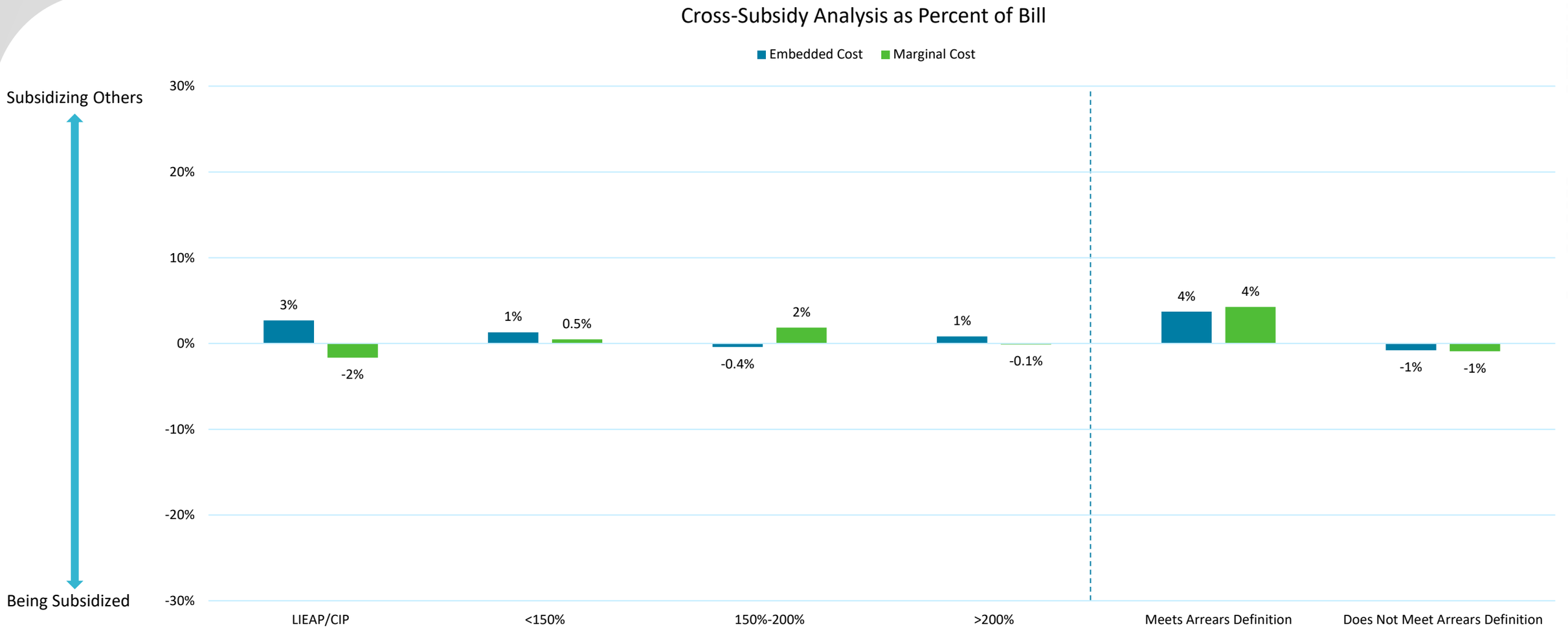
Explanation of Cross-Subsidy Analysis for LIEAP/CIP Recipients – DEC RS

- A relatively higher winter CP compared to the summer CP results in the cross-subsidy being reduced in the marginal cost analysis compared to the embedded cost analysis
- RS LIEAP/CIP customer use roughly 160 kWh more energy than the average RS customer
  - It is not clear why this is the case
- Under both lenses, RS LIEAP/CIP customers subsidize others due to higher usage/revenues
- A straight average of the embedded cost and marginal cost subsidy results in a $13.50 subsidy per month ($162 per year)
- Customers that meet the arrearage definition are cross-subsidizing others due to higher usage

OFFICIAL COPY
Sep 26 2023

Cross-Subsidy Analysis by Income Level and Arrears Status – DEC RE

OFFICIAL COPY
Sep 26 2023



% Total Customers in Category*	3%	13%	9%	64%	17%	83%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

Explanation of Cross-Subsidy Analysis for LIEAP/CIP Recipients – DEC RE

- RE LIEAP/CIP recipients on average use less than ~160 kWh less than the average RE customer, resulting in reduced bills/revenue. As a result, the embedded cross-subsidy is small and under the marginal lens they are subsidizing other customers.

- A straight average of the embedded cost and marginal cost subsidy results in a $0.50 subsidy per month ($6 per year)

- Customers that meet the arrearage definition cross-subsidize others but to a lesser extent than for RS

OFFICIAL COPY
Sep 26 2023

Numerical View of Cross-Subsidy Analysis – DEP RES

OFFICIAL COPY
Sep 26 2023

DEP-RES	Avg Customer in Analysis	LIEAP/CIP	<150% FPL	150%-200% FPL	>200% FPL	Meets Arrears Definition	Does Not Meet Arrears Definition
Embedded Subsidy as Percent of Bill	n/a	8%	3%	2%	-1%	6%	-1%
Marginal Subsidy as Percent of Bill	n/a	1%	0%	0.4%	1%	4%	-1%
Embedded Subsidy	n/a	$11	$4	$3	$(2)	$9	$(1)
Marginal Subsidy	n/a	$1	$0	$1	$1	$6	$(1)
Straight Average Subsidy	n/a	$6	$2	$2	$(0.50)	$7.50	$(1)
Average Bill	$130	$135	$131	$133	$132	$143	$ 128
Average kWh	1,112	1,161	1,122	1,142	1,130	1,241	1,094
Avg Summer CP	3.3	2.7	3.1	3.2	3.5	3.2	3.3
Avg Winter CP	3.2	3.6	3.3	3.4	3.2	3.5	3.1

Embedded, marginal, and straight average subsidy are on a monthly basis

Numerical View of Cross-Subsidy Analysis – DEC RS

OFFICIAL COPY
Sep 26 2023

DEC-RS	Avg Customer in Analysis	LIEAP/CIP	<150% FPL	150%-200% FPL	>200% FPL	Meets Arrears Definition	Does Not Meet Arrears Definition
Embedded Subsidy as Percent of Bill	n/a	16%	5%	-3%	4%	9%	-2%
Marginal Subsidy as Percent of Bill	n/a	6%	-1%	-1%	2%	6%	-1%
Embedded Subsidy	n/a	$20	$6	$(4)	$5	$11	$(2)
Marginal Subsidy	n/a	$7	$(1)	$(1)	$2	$8	$(1)
Straight Average Subsidy	n/a	$13.50	$2.50	$(2.50)	$1.50	$9.50	$(1.50)
Average Bill	$110	$125	$109	$110	$111	$123	$108
Average kWh	1,059	1,215	1,045	1,056	1,068	1,202	1,037
Avg Summer CP	3.4	2.8	3.0	3.6	3.2	3.3	3.4
Avg Winter CP	2.5	3.2	2.5	2.5	2.5	2.7	2.5

Embedded, marginal, and straight average subsidy are on a monthly basis

Numerical View of Cross-Subsidy Analysis – DEC RE

OFFICIAL COPY
Sep 26 2023

DEC-RE	Avg Customer in Analysis	LIEAP/CIP	<150% FPL	150%-200% FPL	>200% FPL	Meets Arrears Definition	Does Not Meet Arrears Definition
Embedded Subsidy as Percent of Bill	n/a	3%	1%	0%	1%	4%	-1%
Marginal Subsidy as Percent of Bill	n/a	-2%	0%	2%	0%	4%	-1%
Embedded Subsidy	n/a	$3	$2	$(0)	$1	$5	$(1)
Marginal Subsidy	n/a	$(2)	$1	$2	$(0)	$5	$(1)
Straight Average Subsidy	n/a	$0.50	$1.50	$1	$0.50	$5	$(1)
Average Bill	$118	$105	$115	$122	$120	$124	$117
Average kWh	1,228	1,065	1,194	1,267	1,253	1,295	1,215
Avg Summer CP	2.9	2.2	2.7	3.1	3.0	2.9	2.9
Avg Winter CP	3.9	3.2	3.8	4.0	4.1	3.9	3.9

Embedded, marginal, and straight average subsidy are on a monthly basis

Other Notes

OFFICIAL COPY
Sep 26 2023

- The DEC RS and RE results are slightly different from what was presented in the Comprehensive Rate Design Study March 11 Residential Working Group meeting
  - Small calculation error, that when corrected changed:
    - RS <150% FPL embedded cost reduced by 1 percentage point
    - RS <150% FPL marginal cost increased by 0.9 percentage points
    - RS >200% FPL marginal cost increased by 1 percentage point
    - RS Meets Arrears Definition embedded cost reduced by 1 percentage point
    - RE >200% FPL marginal cost decreased by 1.1 percentage points
    - RE Meets Arrears Definition marginal cost increased by 2 percentage points
- All LIAC analytics combined DEP and DEC customers into one group for analysis, while the cross-subsidy analyses are broken into DEP and DEC, and DEC is further broken into the RS and RE rate schedules
- DEP and DEC results cannot be directly compared because the system costs are different

CIGFUR III Affordability Panel Settlement Cross Exhibit No. 3
Page 285 of 548
Docket No. E-7, Sub 1276

SSI OVERVIEW
Task 3b/c

OFFICIAL COPY
Sep 26 2023

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

NCUC Order

Investigate the strengths and weaknesses of existing rates, rate design, billing practices, customer assistance programs and energy efficiency programs in addressing affordability. Questions that should be addressed include:

- **What defines a "successful program" and what metrics should be monitored and presented that show the impact of programs on addressing or mitigating affordability challenges?**
- **What percentage of residential customers are eligible for each existing program and what percentage of eligible customers enroll in and/or take advantage of these programs?**
- **What is the impact of existing programs on the energy burden for enrolled customers?**
- **Should existing programs be maintained, replaced or terminated? If maintained, should any changes be made to improve results? If programs are replaced, what would replace them?**
- **What existing utility and external funding sources are available to address affordability? Estimate the level of resources that would be required to serve additional customers**
- **What are the opportunities (and challenges) of the utilities working with other agencies and organizations to collaborate and coordinate delivery of programs that affect affordability concerns?**

OFFICIAL COPY
Sep 26 2023

Supplemental Security Income (SSI) Discount

Duke Energy Carolinas offers a bill discount to eligible Supplemental Security Income (SSI) recipients.

Supplemental Security Income (SSI) is a federal income supplement program designed to help elderly, blind, and disabled people who have little or no income. It provides cash to meet basic needs for food, clothing, and shelter.

The North Carolina Utilities Commission approved bill discount for recipients of SSI on August 31, 1978:

- Experimental discount rate under the hypothesis that SSI recipients have usage characteristics that differ substantially from the average residential customer - as a result have a small impact on system costs.
- A 1981 Research Triangle Institute study on Duke Power customers who were SSI recipients concluded: “If the North Carolina Utilities Commission feels that this particular class of customers should be granted special rate consideration, then there exist cost as well as social equity justifications for doing so.”

Supplemental Security Income (SSI) Discount

Eligibility Requirements: (Primary Account Holder) must meet all of the following:

- DEC residential customers in North Carolina
- SSI supplement check recipient
- Must be either blind, disabled or 65 years of age and older
- Head of household and/or the principal wage earner
- Recipient name must be Duke Energy account holder (Customer must be on electric rate NCER RS or NCER RE)

Program Administration:

- This rate is offered to DEC NC customers by the NC Department of Human Resources (DHS). If it is determined that a customer is eligible for this rate, DHS provides the customer with an application that must be completed and mailed to:

  Duke Energy c/o Billing Account Maintenance
  9700 David Taylor Dr.
  Charlotte, NC 28262-2363

Program Promotion:

- Bill insert is sent annually to all NC residential customers with details about available residential rates.
- Outside of the annual bill insert, and notices mailed by DHS, there are no other promotional activities involving the SSI rate that we are aware of.

Program Information:

- Customers that use more than 350 kWh per month receive a discount of $3.17
- Customers that use less than 350 kWh per month receive a discount equal to: total kWh x .9054 cents
- 9.3826 cents/kWh – 8.47772 cents/kWh = 0.9054 cents/kWh discount
- This discount is only available for DEC customers
- A previous customer taken off the SSI Rate, who qualifies again in the future, must reapply.
- SSI status will be canceled for customers that final bill or transfer service. Customers who remain eligible must reapply.

OFFICIAL COPY
Sep 26 2023

OFFICIAL COPY
Sep 26 2023

SUCCESS CRITERIA AND METRICS TO MONITOR PROGRAM IMPACT

Task 3a

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

Subpanel C

Success Criteria and Metrics to Monitor Program Impact

	Success Criteria (Desired Outcome)	Metrics recommended to Monitor Program Impact (By Program) [1]
1	Minimize Barriers for Customers to Participate	• Number of Customers Served • Percent of Customers Served • Percent of Eligible Customers Served • Percent Program Participation by Housing Type
2	Significantly and Sustainably Helps Participating Customers	• Average Electric Burden per Program Participant • Average Arrearages Amount per Program Participant • Percentage of Program Participants Disconnected [2] • Participants at Various Income Levels (50% FPL, 100% FPL, 200% FPL, etc.) • Affordability Ratio [3]
3	Significantly Helps Participating Customers (Needs Based)	• Number of Measures installed • Evaluated and Verified kWh Reductions (Due to Measures Installed) • Needs served based on Opportunity per Customer [4] • Percent of Households Deferred Due to Health and Safety Issues [5]

OFFICIAL COPY
Sep 26 2023

Subcom C

Success Criteria and Metrics to Monitor Program Impact

	Success Criteria (Desired Outcome)	Metrics recommended to Monitor Program Impact (By Program)
4	Low Administrative Cost of Operation the Program	• Cost of Program • Cost of Program per Program Participant • Cost of Program per Program Participant weighted by Value to Participants • Maximize Leveraged Dollars [1]
5	Minimizes bill impacts for Non-Participants	• Average kWh cost across all Customers • Percentage (and/or) Average Monthly Bill Increase for Non-Participants
6	Eligible for Cost Recovery [2]	

OFFICIAL COPY
Sep 26 2023

OFFICIAL COPY
Sep 26 2023

FUNDING SOURCES AND OPPORTUNITIES/ CHALLENGES

Task 3j/i

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Task 3i

What **existing utility** and external funding sources are available to address affordability?

	Utility Funding Sources	
	Bill Assistance	Energy Efficiency
SSI Bill Discount (funded through base rates)	X (Monthly limit up to initial 350 kWh)	N/A
Share the Light (funded through customer contributions and shareholder contribution up to eligible annual match)	X	
Income Qualified Weatherization Program (funded through EE/DSM Rider)		X
Neighborhood Energy Saver (funded through EE/DSM Rider)		X

OFFICIAL COPY
Sep 26 2023

Task 3i

What existing utility and **external funding** sources are available to address affordability?

	External Funding Sources	
	Bill Assistance	Energy Efficiency
State Weatherization Program **Administrator: NC DEQ**		X Note: Provides funding for weatherization services and health and safety investment
Low Income Energy Assistance Program and Crisis Intervention Program **Administrator: NC DHHS**	X (Annual contribution limit)	Note: Provides funding for weatherization services and health and safety investment.
Community Development Block Grant Program **Administrator: NC Department of Commerce**		Note: Enables weatherization via funding health and safety repairs.

OFFICIAL COPY
Sep 26 2023

Task 3j

What are the **opportunities (and challenges**) of the utilities working with other agencies and organizations to collaborate and coordinate delivery of programs that affect affordability concerns?

	Utility Working with other Agencies	
	Opportunities	Challenges
State Weatherization Program **Administrator: NC DEQ**	DEQ plans to deploy a new software platform that proposes to collect housing inspection data. Any weatherization deferral for health and safety needs will be visible for all local agencies to monitor.	Lack of transparency and information sharing, No standardized process to collect/track deferral information Misalignment on the timing of which organization is spending $ and when, Inconsistent communication channel between Duke and DEQ, Miscommunication/misunderstanding around priority
Low Income Energy Assistance Program and Crisis Intervention Program **Administrator: NC DHHS**	Use qualification for LIEAP/CIP to aid in energy burden calculation	Low level of funding per participant compared to the need

OFFICIAL COPY
Sep 26 2023

Subteam D Tasks

SUB-TEAM D **Collaborative Coordination**
Coordinate between the affordability collaborative and the rate study and energy efficiency stakeholder groups
4.a-1) Stay abreast of the ongoing work of the separate teams (affordability, comprehensive rate design and energy efficiency) 4.b-1) Describe the major interactions and connections between the affordability collaborative and the rate study and energy efficiency stakeholder groups 4.b-2) Identify interim material produced from LIAC to make available to the CRD and EE collaboratives 4.b-3) Identify interim material produced from the CRD and EE collaboratives to make available to the LIAC 4.b-4) Identify LIAC key areas of concern to discuss during joint meeting

OFFICIAL COPY
Sep 26 2023

Subteam Recap of Completed Tasks

SUB-TEAM D Collaborative Coordination			
Task	**Work Product**	**Date Shared with/Sent to LIAC**	**Date Discussed with LIAC**
4.a-1) Stay abreast of the ongoing work of the separate teams (affordability, comprehensive rate design and energy efficiency)	N/A	Ongoing	During LIAC workshops as needed
4.b-1) Describe the major interactions and connections between the affordability collaborative and the rate study and energy efficiency stakeholder groups	Joint Collaborative Session Findings	March 31, 2022, at Workshop 6	
4.b-2) Identify interim material produced from LIAC to make available to the CRD and EE collaboratives	Joint Collaborative Session Workshop Presentation	January 26, 2022 – Joint Collaborative Session	
4.b-3) Identify interim material produced from the CRD and EE collaboratives to make available to the LIAC	Joint Collaborative Session Workshop Presentation	January 26, 2022 – Joint Collaborative Session	
4.b-4) Identify LIAC key areas of concern to discuss during joint meeting	N/A; Identified during Subteam D Meetings	N/A	

OFFICIAL COPY
Sep 26 2023

BREAK

(Resuming at 2:35 PM)

OFFICIAL COPY
Sep 26 2023

PROGRAM PROPOSAL ASSESSMENT RESULTS

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Proposal Process Timeline

4/20

PITCH DAY – Proposals shared with LIAC Members

5/19

WORKSHOP 7 – Proposal Evaluation Package shared with filed LIAC organizations

5/19-6/3

LIAC organizations complete proposal assessment form

6/3

Assessment responses submitted

6/9

WORKSHOP 8 – Walk through Results of assessment

OFFICIAL COPY
Sep 26 2023

LIAC Proposal Assessment

LIAC Program Proposal Reference Packet with Assessment Results was shared yesterday via email. It includes:

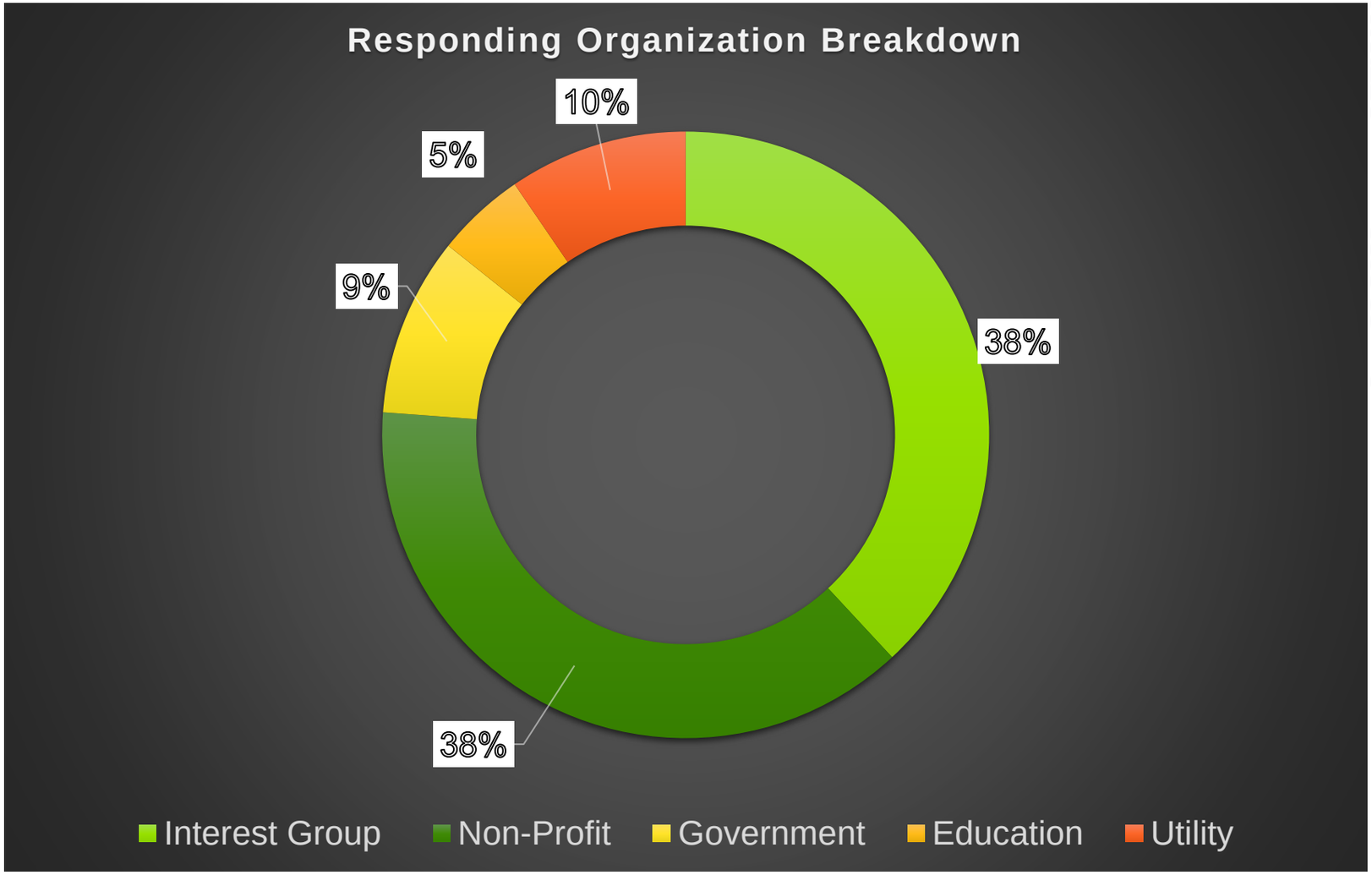
- Overview of Respondents
- Program Proposal Information
- Assessment Results in Pie Chart form
- Comments from the Assessment

Note: One organization encountered technical difficulties and has since had their responses added to the Packet, the updated Packet will be shared later today. The following slides contain the most up-to-date version of the information.

Overview of Assessment Results

ASSESSMENT PARTICIPATION

Total Number Responding Organizations	**21**
Percent of total LIAC organizations that provided input	**60%**

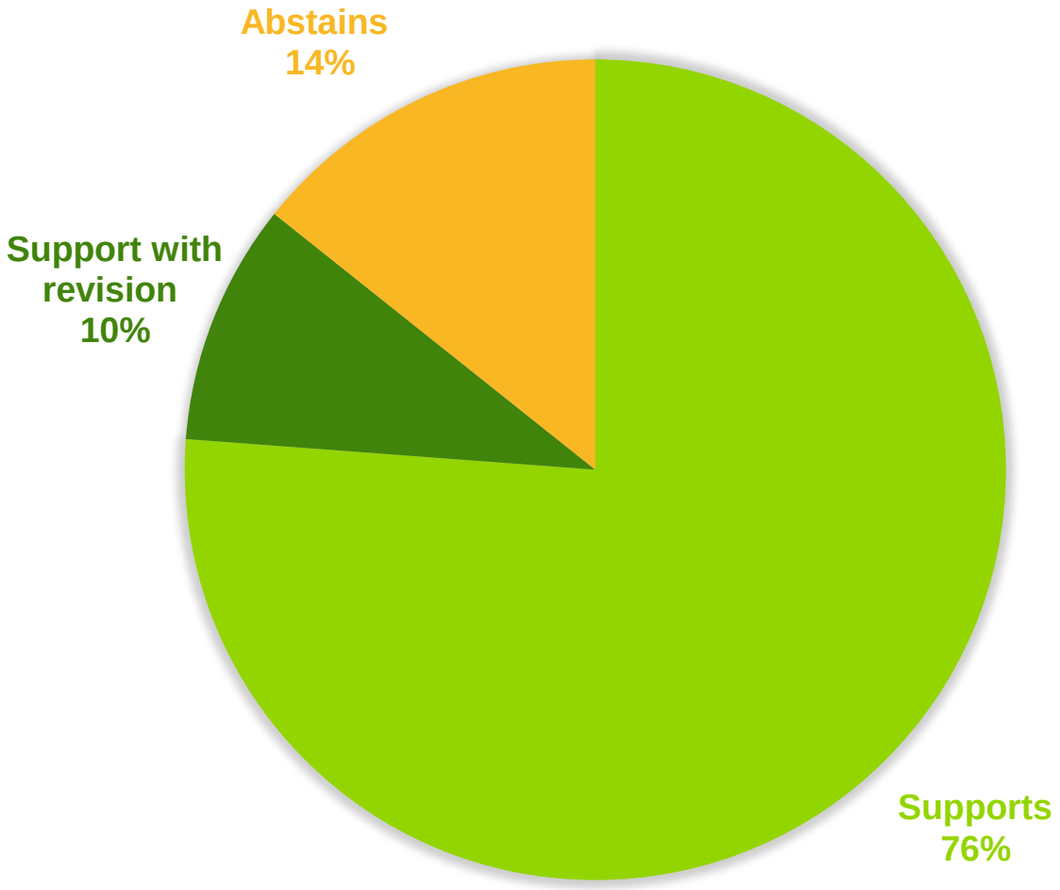


OFFICIAL COPY
Sep 26 2023

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 1 - Closing the EE Spending and Savings Gap



Comments:

- ““The reasons for the gap in spending should be studied and understood. There are historical differences between DEC and DEP. For instance, DEP has more Tier 1 counties compared to DEC. Additionally, pre-merger, DEP and DEC each had its own portfolio of DSM/EE programs, and there were many differences between the two portfolios. Over time post-merger, many of the programs of the two companies have been modified to be identical; however, these historical differences may account for the gap to some extent. Once the differences are understood then DEP may better target customers of need and mindfully deploy EE programs based on actual identified customer groups. The following general note should be considered included in Public Staff responses to all proposals. .” - **Public Staff of the North Carolina Utilities Commission**
- Duke Energy strives to offer programs that reasonably similar between the jurisdictions and apply learnings before expanding programs to the other jurisdiction, which is why it is filing the DEP Weatherization Program with the NCUC the week on June 7th. The addition of the Weatherization Program in DEP will immediately increase the DE Program spend and reduce the current gap in spending. However, the jurisdictional make-up of the DEC and DEP territories is different, so it’s unlikely that the low-income program spend, and energy saving will be consistently proportionate. – **Duke Energy**

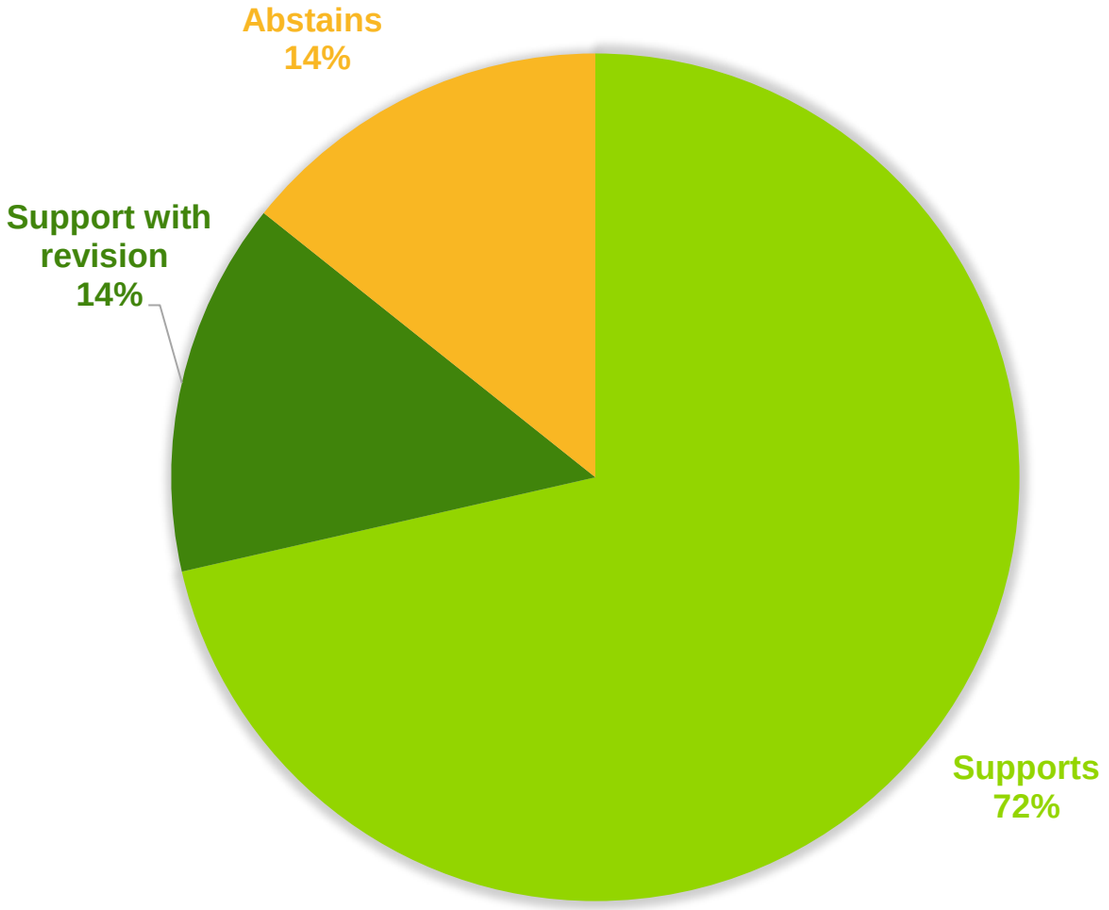
*Some comments have been shortened for the purpose of this presentation. Please see the placket for complete comments.

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 2 – DEP Income Qualified Weatherization



"AARP looks forward to learning more about the specific ways in which this program would lower the cost barrier to energy efficiency retrofits in low-income households, and information about the cost and savings for low-income households that participate in this and other energy efficiency programs. AARP supports cost-effective measures to promote clean energy that yield affordable energy, AARP supports energy efficiency and weatherization programs including for low income customers. We urge that DOE and Federal infrastructure funds be used first to fund such a program." – **AARP**

"Only non-ratepayer funds should be utilized for health and safety work." - **Public Staff of the North Carolina Utilities Commission**

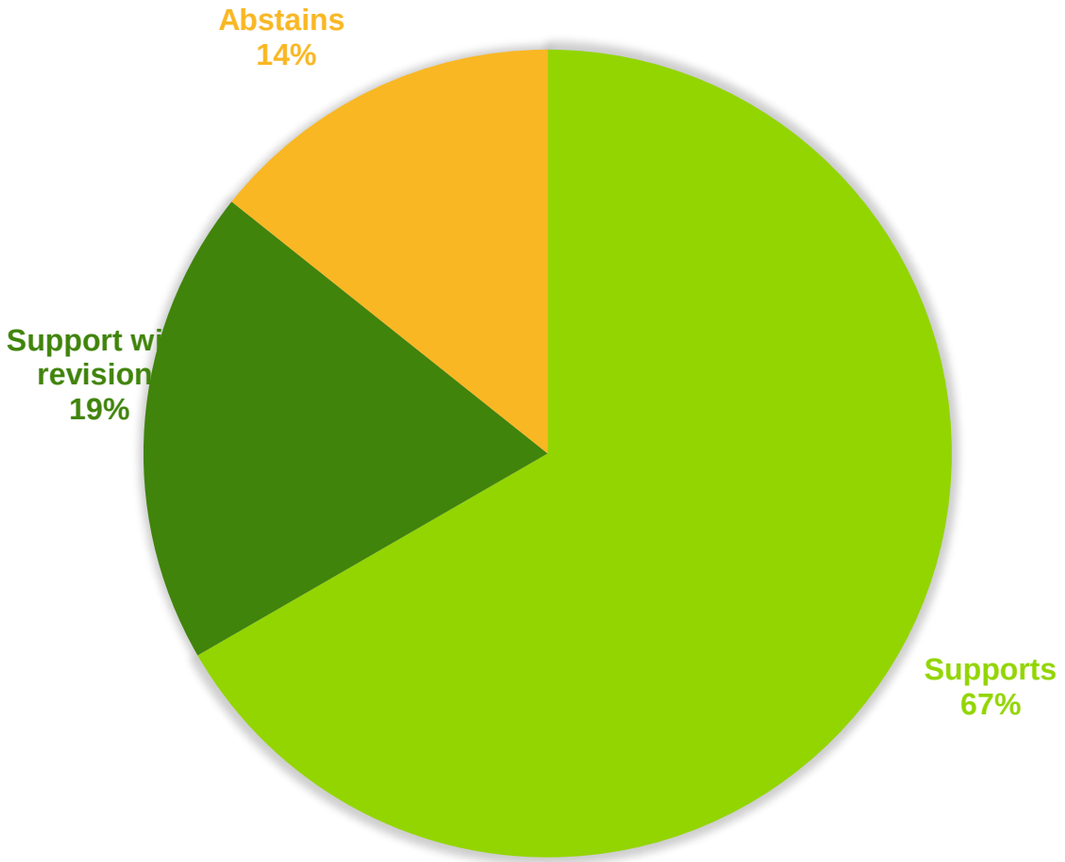
"The Company plans to file the DEP Income Weatherization Program with the NCUC within the next two weeks." – **Duke Energy**

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 3 – Income Qualified High Energy Use



"AARP supports energy efficiency programs including for low income customers. We urge that DOE and Federal infrastructure funds be used first to fund such a program. We think a pilot program might also be a good idea." **– AARP**

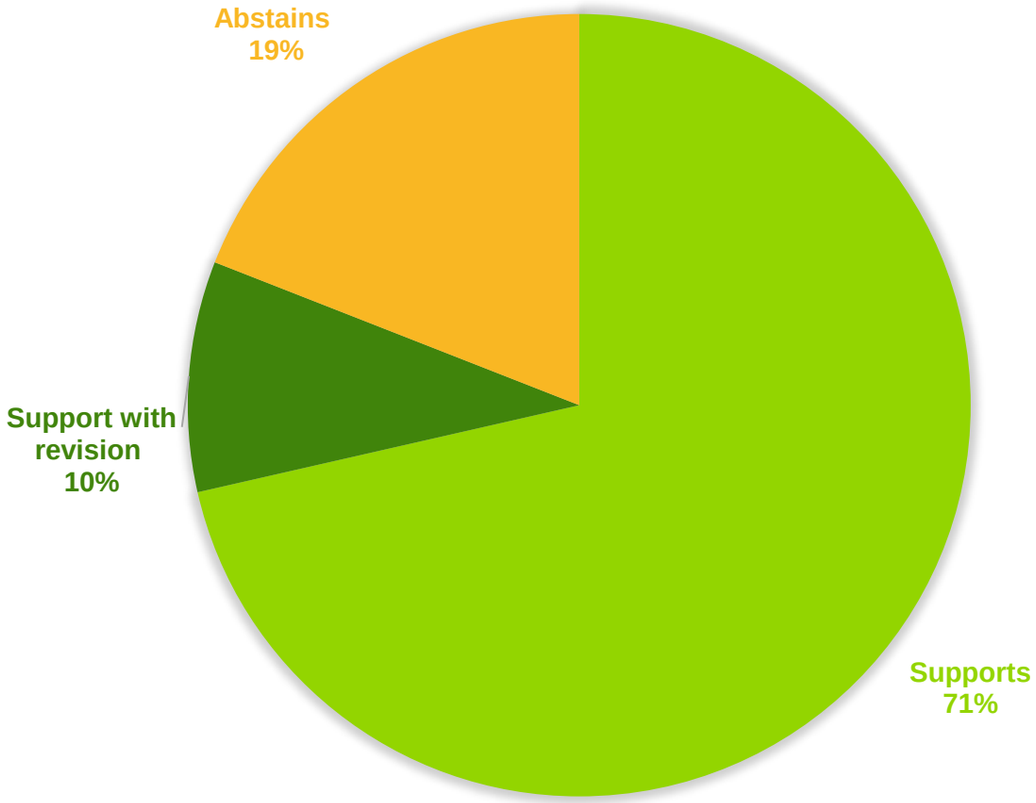
"Must include a component for customer education for maintenance of equipment and practical ideas to reduce energy consumption." **– Rowan Helping Ministries**

"In the statistical analysis, higher winter peak and summer peak usage were associated with a customer being more likely to be in arrears, receive a 24-hour notice, and be disconnected. These results would support reducing high energy use via this pilot and the resulting research could prove valuable." - **Nicholas Institute**

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 4 – Residential ER and HHP Water Heater Rental



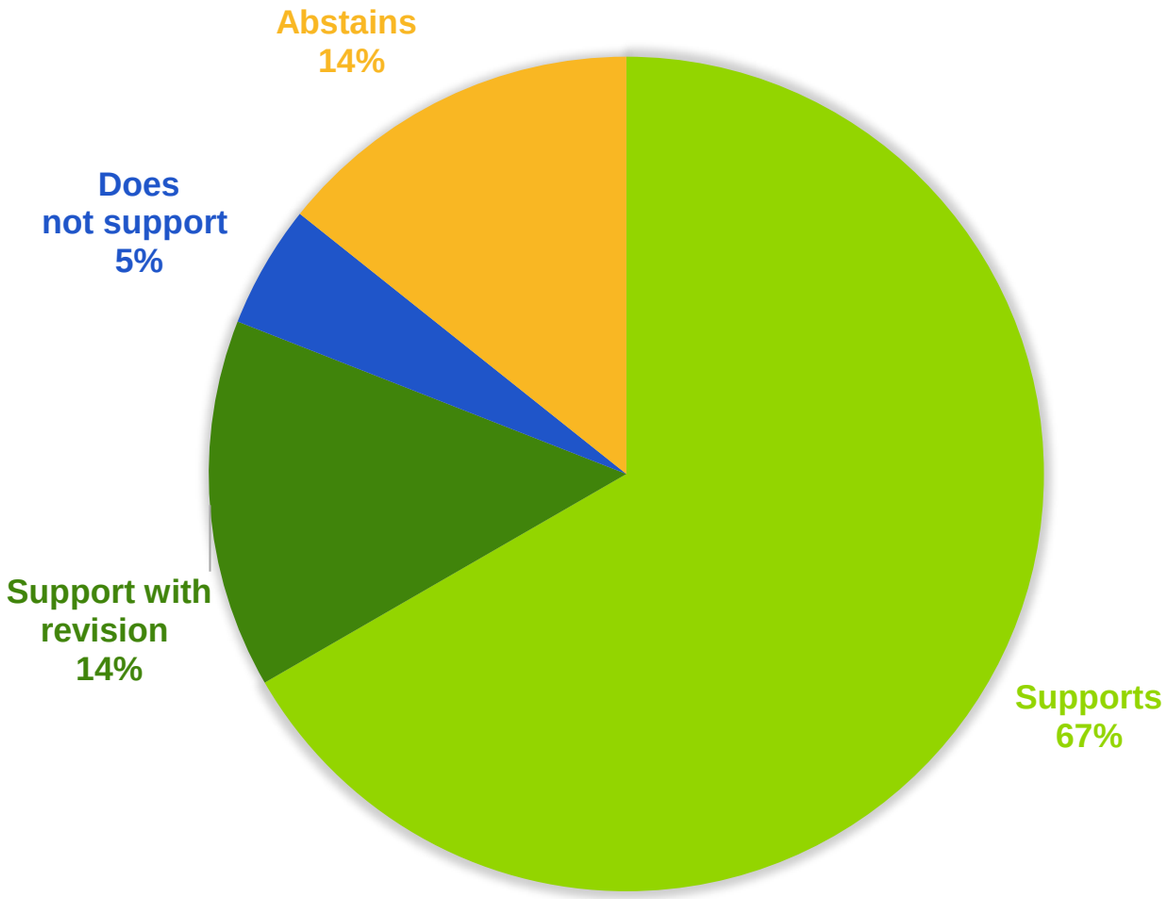
"A waiver of the Commission disconnect rules may be needed to avoid disconnect based on non-payment of non-electric charges. The Public Staff has historically opposed disconnection for non-electric charges. More detail about the rental contracts needs to be provided before it can be determined whether it is appropriate to implement this program through a rental program. It may be more appropriate to implement this measure in a traditional EE program where the customer purchased, owned, and maintained the equipment and then qualified for a credit/discount similar to the Smart Saver program." **- Public Staff of the North Carolina Utilities Commission**

"The Companies are committed to evaluating a customer owned program offered via an on-tariff financing offer." **– Duke Energy**

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 5 – Manuf. Homes EE Retrofit and Replacement



"AARP in general supports energy efficiency programs including for low income customers. We would appreciate more information on this program." **– AARP**

"It is not appropriate to use of ratepayer funds for replacement of manufactured homes. The program should implement only cost-effective EE measures for low-income customers living in manufactured homes similar to other EE programs." **- Public Staff of the North Carolina Utilities Commission**

"The findings of the statistical analysis support a focus on mobile homes regardless of the tenure of the account holder (owner or renter)." **- Nicholas Institute**

"This seems beyond the scope of the Duke Energies corporate responsibilities. Great idea for another organization to administer." **– Rowan Helping Ministries**

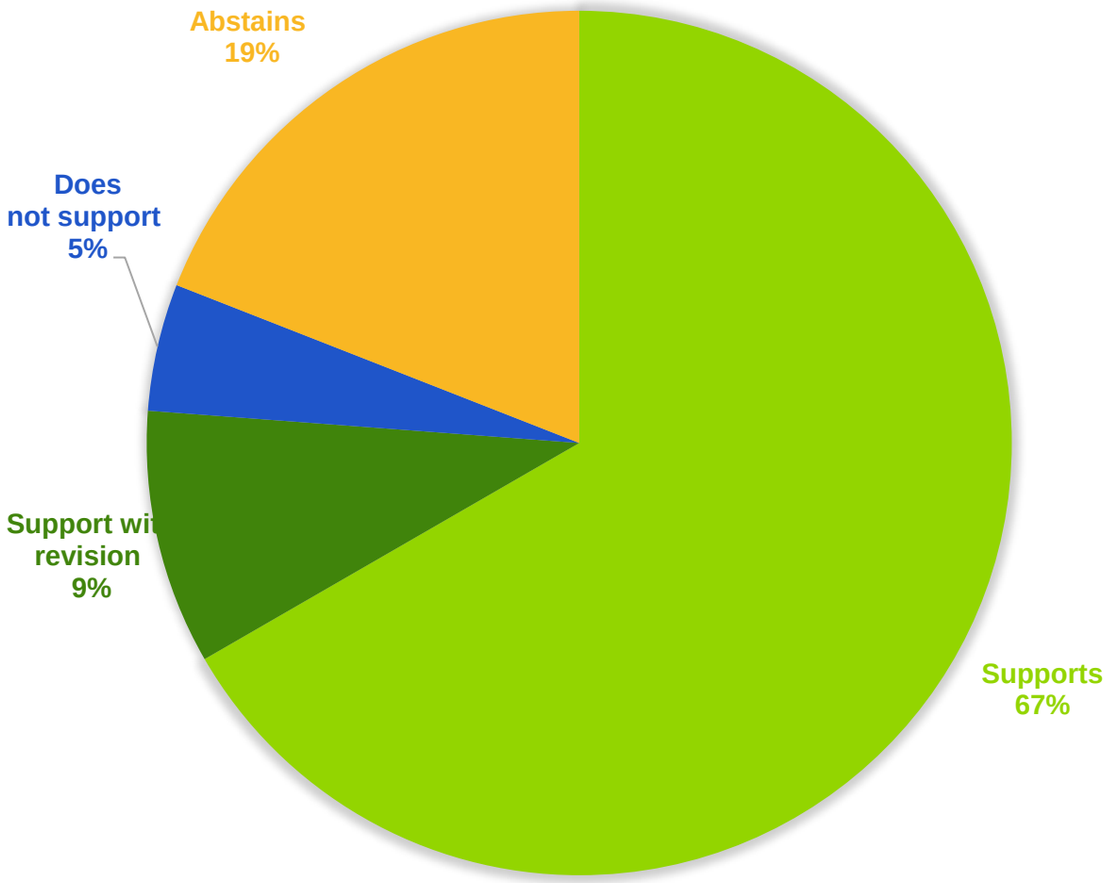
"Yes, the Companies are committed to evaluating this proposal although it may be cost prohibitive." **– Duke Energy**

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 6 – Arrearage Management Pilot EE



"It is generally not appropriate to use ratepayer funds for arrearage forgiveness; however non-ratepayer funds could be utilized for arrearage forgiveness. It may be appropriate to use ratepayer funding for arrearage forgiveness to the extent that it is revenue neutral. Duke should analyze the impact to uncollectables and assess the actual administrative costs and late fees. This delta could flow back to offset arrearages/uncollectables. Such an offset would be appropriate for consideration in the next rate case. It is inappropriate for a utility to profit based on ratepayers' inability to pay their bills. Prior to arrearage forgiveness, all other sources of funding should be sought and utilized. Arrearage metrics should be tracked to ensure that no perverse incentive to stop paying bills has been created. Access to arrearage forgiveness should limited (1-5 years)." **- Public Staff of the North Carolina Utilities Commission**

"We are seeing first hand payment arrangements - post moratorium - are not working for our clients. Our clients are making payment arrangements without the ability to pay. Arrangements need to be made soon after an arrearage occurs and payment needs to fit the financial capacity of the customer." **– Rowan Helping Ministries**

"The findings of the statistical analysis how that those with higher than the national average electric burdens were statistically significantly more likely to be in arrears and more likely to be disconnected over time." **- Nicholas Institute**

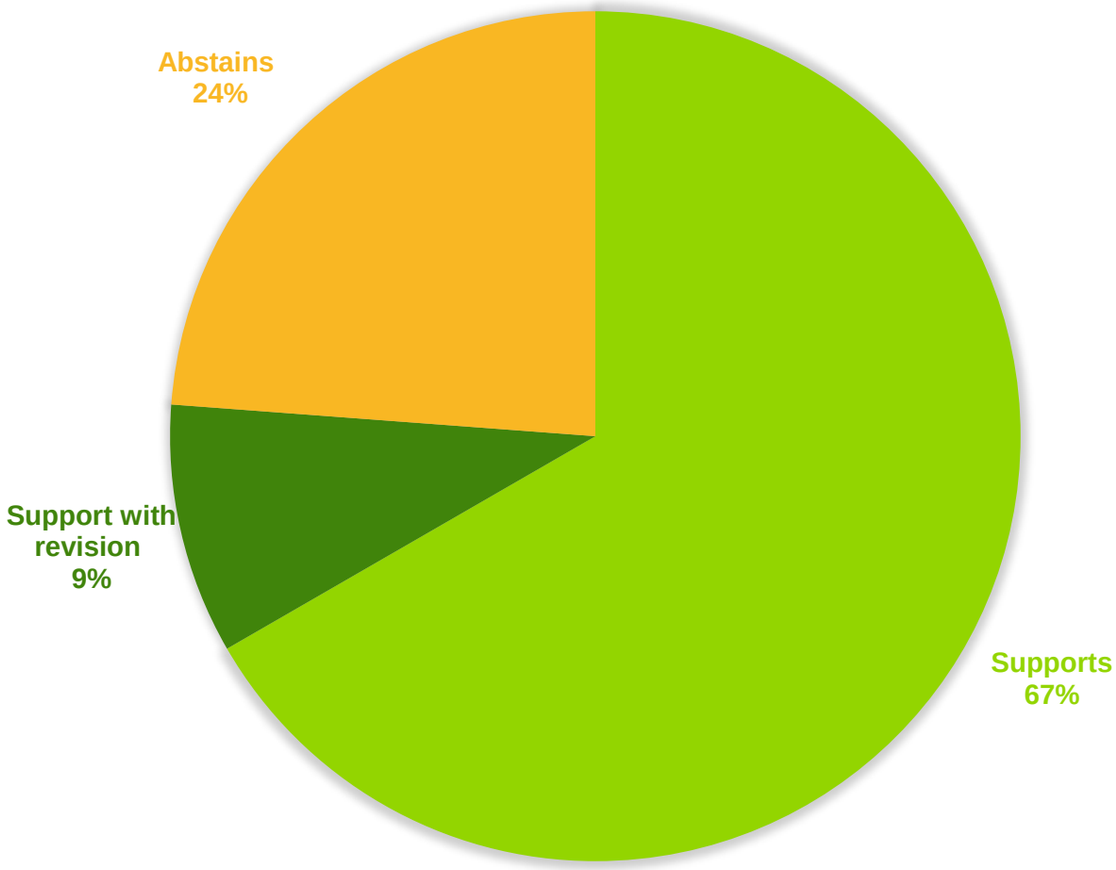
"The Companies are opening to evaluating an arrears management program in the CAP proposal that is not specific to energy efficiency program participation." **– Duke Energy**

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 7 – Low Income Carve-out from Market EE

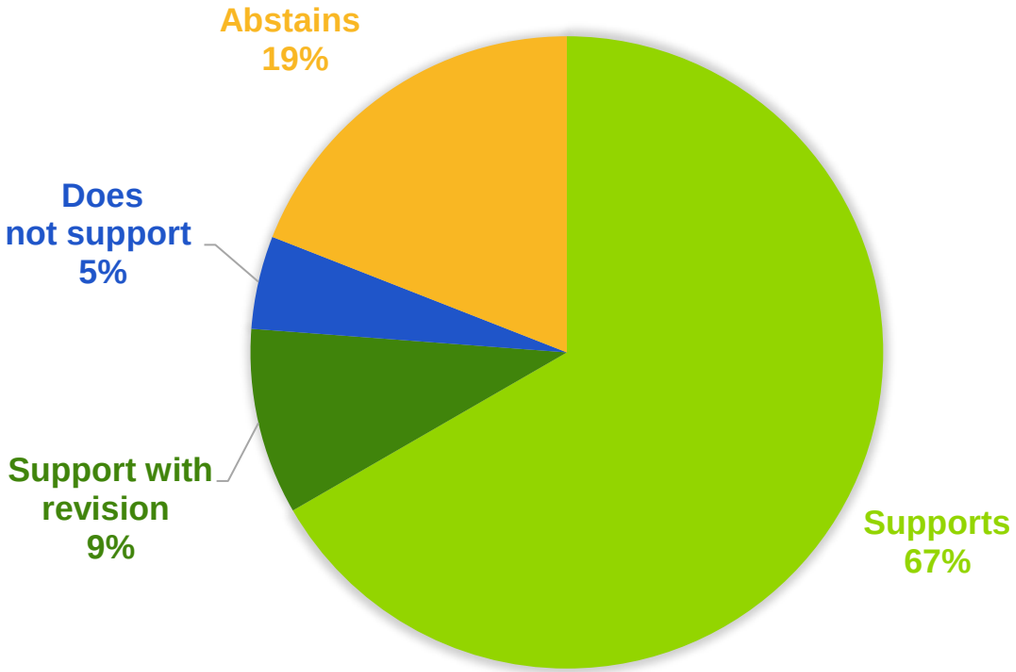


"A market study is necessary before this proposal should move forward. The participant incentive should not exceed 25% of the cost of measure." - **Public Staff of the North Carolina Utilities Commission**

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 10 – Comprehensive Definition of Affordability and Develop Metrics and Methodologies for Assessing and Monitoring the Relative Affordability of Electric Service



"This proposal is not a mitigation program; it seeks to define affordability for purposes of further developing programs to mitigate conditions related to affordability." **- Public Staff of the North Carolina Utilities Commission**

"The statistical analysis included predictors for many but not all of the factors proposed for the definition of affordability in Proposal 10, and generally, all were significant in predicting the likelihood of being in arrears, receiving a 24-hour notice, and disconnections (excepting home value for disconnections). This suggests complex relationships between sociodemographic, home attributes, neighborhood characteristics, and energy usage. Capturing this complexity in reported metrics over time is supported by the findings of the statistical analysis." **– Nicholas Institute**

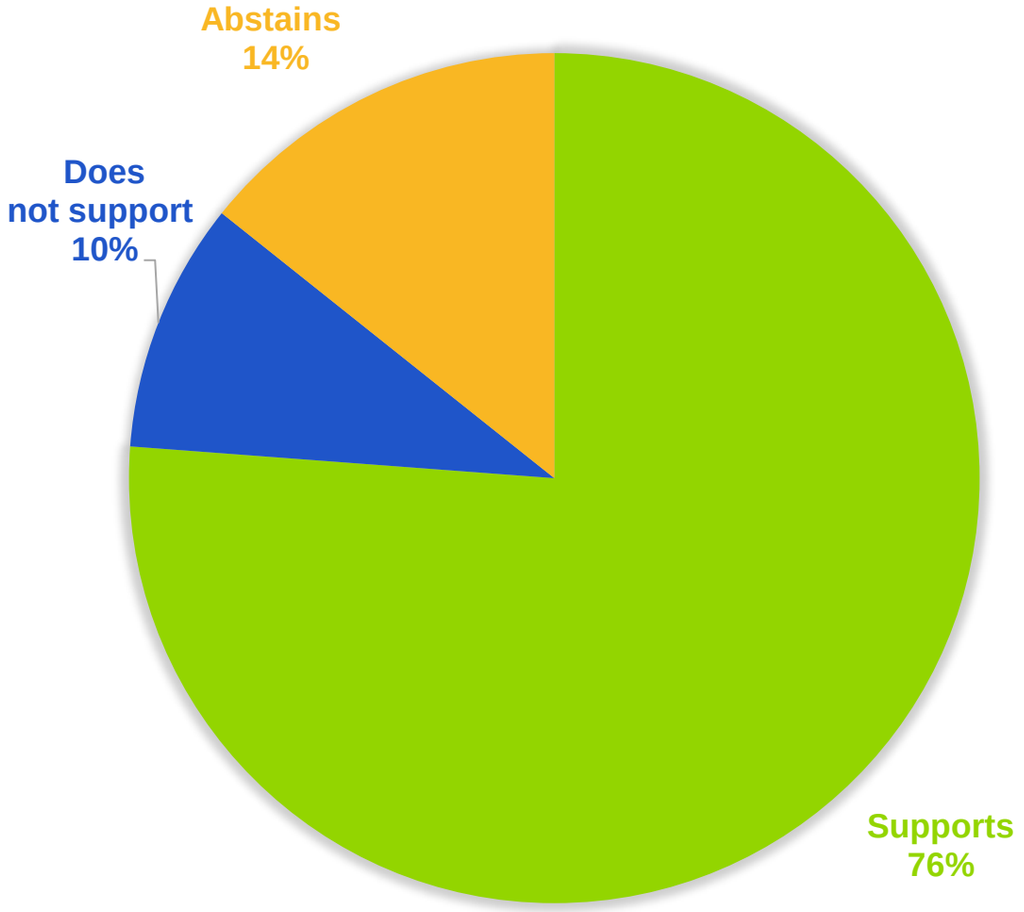
"The Companies support the North Carolina Utilities Commission opening an affordability docket similar to the process that the California Public Utilities Commission ordered to evaluate affordability for their regulated utilities." **– Duke Energy**

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 11 – Prioritized Marketing and Distribution LI Funds



"All low-income customers should be eligible for low-income programs and initiatives. There does not appear to be an EE component tied to the assistance sought in this program." **- Public Staff of the North Carolina Utilities Commission**

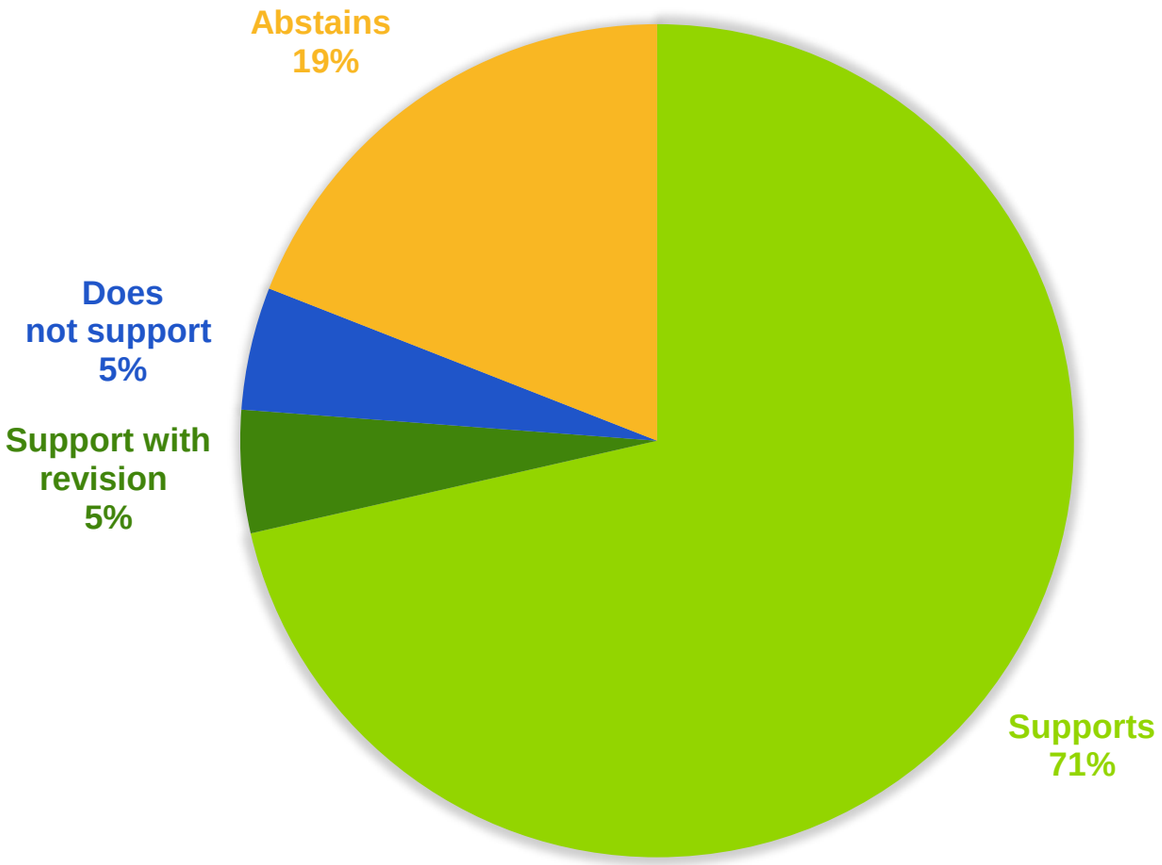
"The findings of the statistical analysis provide support for prioritizing outreach to based on sociodemographics and electric burden." **– Nicholas Institute**

"Carving our communities for distribution of funding could negatively more rural communities/households." **– Rowan Helping Ministries**

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 12 – Required Credit and Collections Data Reporting



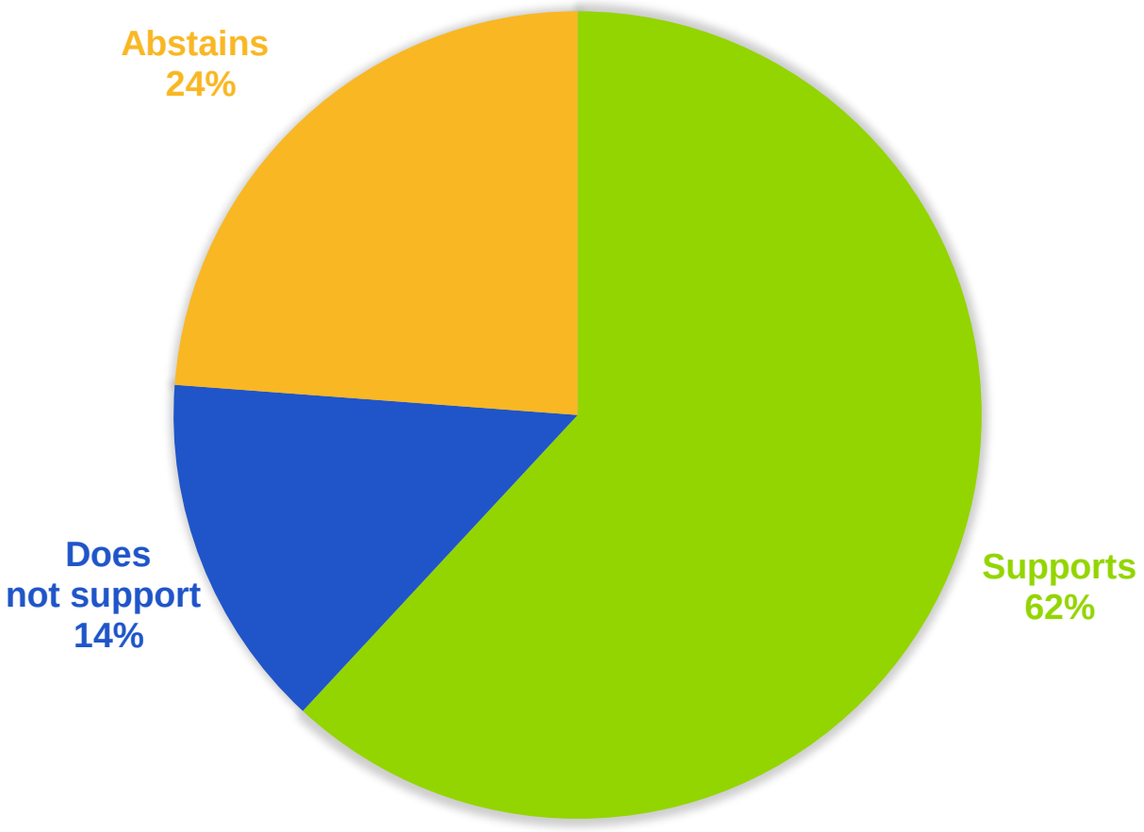
"These data points could provide meaningful value and may be appropriate as one of the metrics established in the next Duke rate cases." **- Public Staff of the North Carolina Utilities Commission**

"The Companies support the supporting of aggregated data pending it meets the required requirements to keep information confidential. If the NCUC approves the reporting of zip code level data, the requirements should align with a NCUC decision in the pending Rulemaking filed in Docket No. E-100, Sub 161." **– Duke Energy**

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 13 - Minimum Bill Pilot Program



Comments:

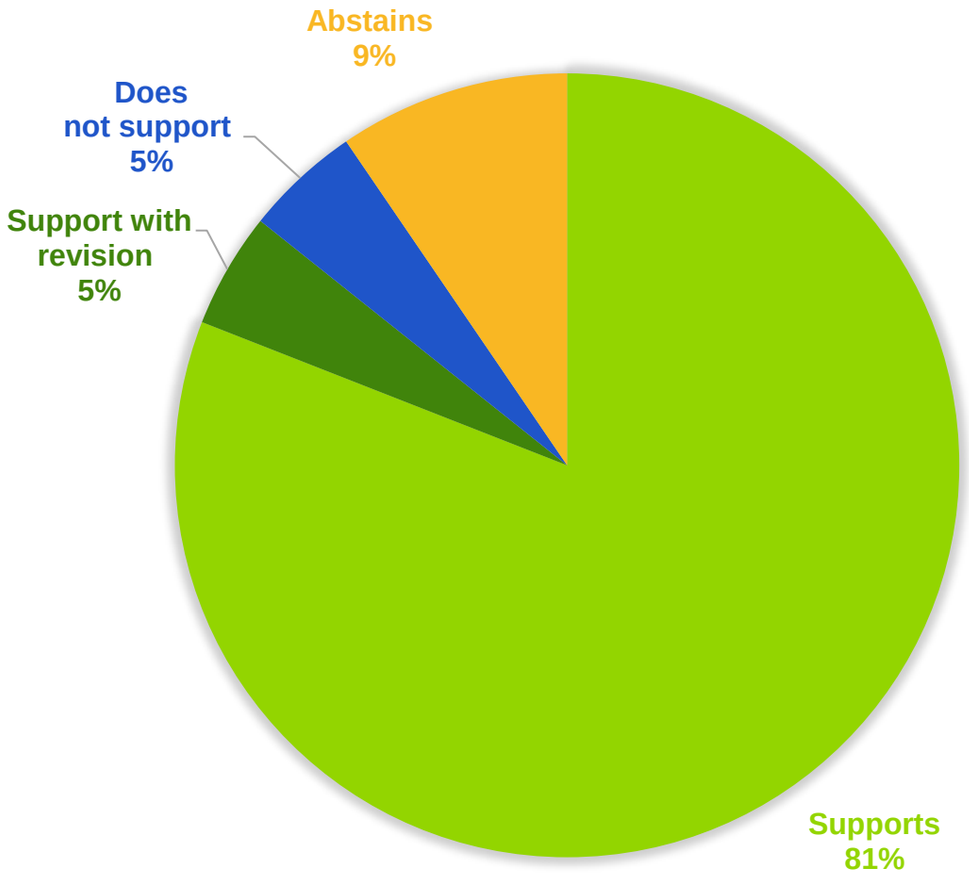
- "This program does not follow cost of service principles. Not a mitigation program." - **Public Staff of the North Carolina Utilities Commission**
- "Proposal doesn't explain how this program will be funded. Need more information on how the utility is expected to recover costs when usage that exceeds the minimum payment." – **Dominion**
- "The statistical analysis findings showed that households with higher winter and summer peak impact were more likely to be in arrears and receive 24-hour notifications. Those households at the highest categories of impact were also more likely to be disconnected." – **Nicholas Institute**
- "The Companies do not support the proposed minimum bill pilot. Overall, the Companies support minimum bill as a rate design tool similar to minimum bill rate design offered by Duke Energy regulated utilities in South Carolina and Florida." – **Duke Energy**

*Some comments have been shortened for the purpose of this presentation. Please see the placket for complete comments.

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 14 - Voluntary Wx, EE, UR Partnership Forum



Comments:

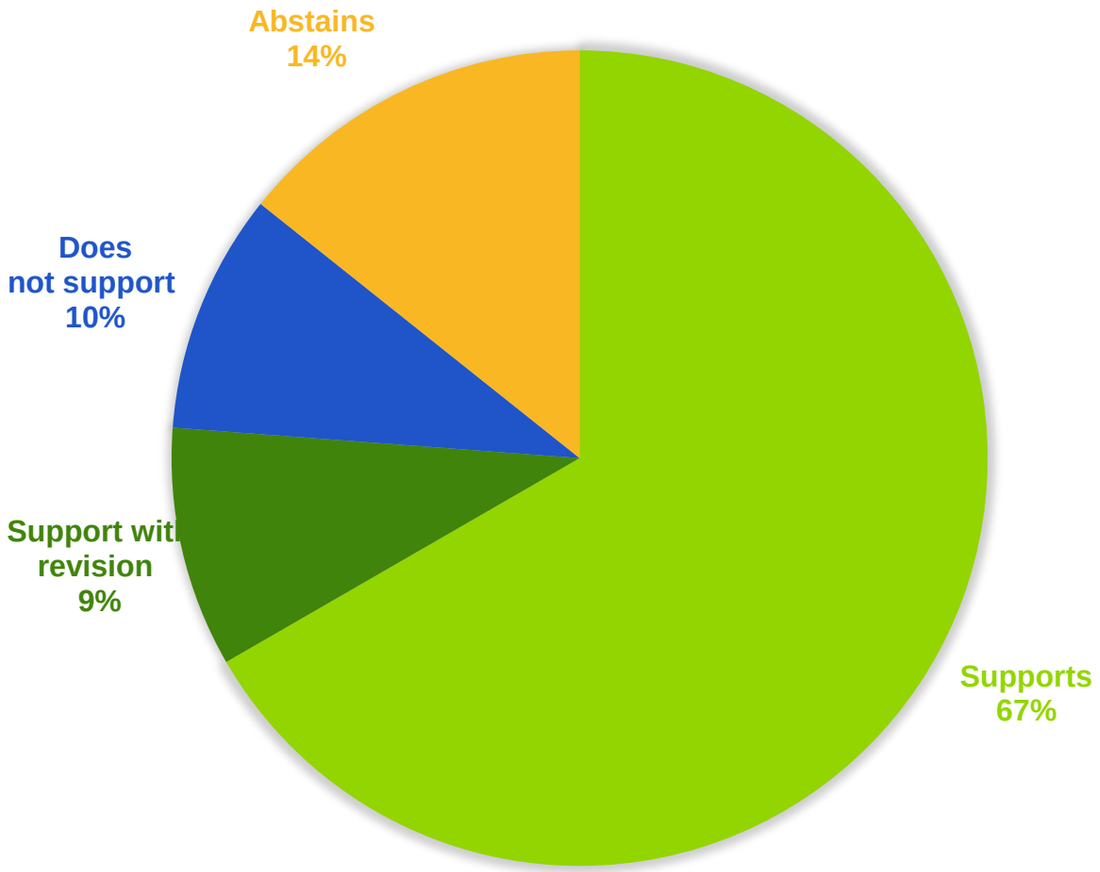
- "This proposal would duplicate initiatives of the State Energy Office and thus is unnecessary." - **Public Staff of the North Carolina Utilities Commission**

*Some comments have been shortened for the purpose of this presentation. Please see the placket for complete comments.

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 15 - Duke Energy Winter Moratorium



Comments:

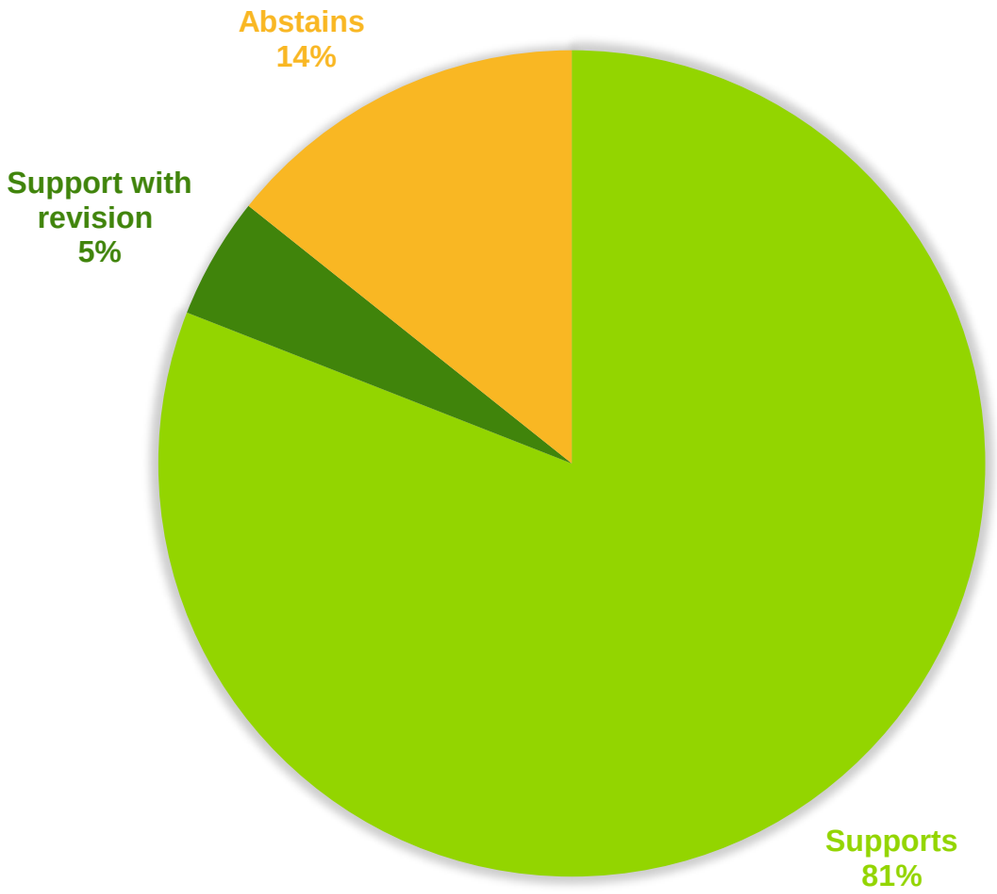
- "Automatically enrolling customers should be done with caution. If we go this route we should send a notice that they will not be disconnected in certain temperatures but clearly stating that not only is the bill accumulating but that there are places to call for housing counseling to explore alternative options (including budget counseling if applicable) or financial assistance." – **Crisis Assistance Ministry**
- "This would be best suited as a pilot program, specific – at least initially – to the winter season only. The Commission should consider expanding any potential pilot to all IOUs and LDCs." - **Public Staff of the North Carolina Utilities Commission**
- "Our observation is that the COVID moratorium did nothing to help our clients but saddled them with higher bills and payment arrangements they could not manage once the bills came due. It created a debt tsunami." – **Rowan Helping Ministries**
- "The Companies support enrolling LIEAP and CIP recipients in a Winter Moratorium that aligns with the timeframe detailed in NCUC Rule 12-11 from November 1 – March 31. LIEAP and CIP recipients would be automatically enrolled in a 6-month payment arrangement at the end of the moratorium. The Companies do not support a summer moratorium or automated referral for arrears greater than $550. The Company will request to seek cost recover of any debts that result to uncollectible charges; similar to the existing process to collect uncollectible charges. The enrollment of LIEAP and CIP in a Winter Moratorium is dependent up receiving the required information from the NCDHHS." – **Duke Energy**

*Some comments have been shortened for the purpose of this presentation. Please see the placket for complete comments.

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 16 - Re-examine Regulatory Consumer Protection



Comments:

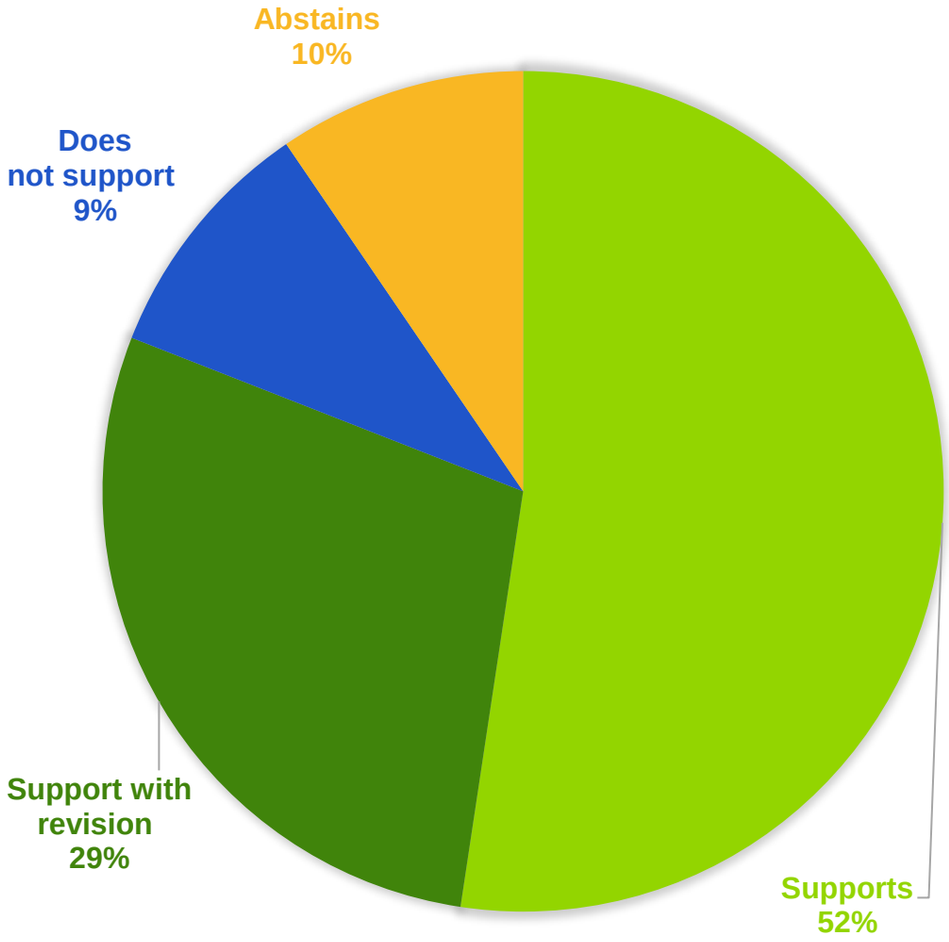
- "The Companies support the review of the existing regulatory consumer protections detailed in NCUC Rule R12-11. If the output of the review requires technical system changes, the Companies request the required timeframe to update impacted systems which could be 12 months. In addition, the Companies will seek cost recovery of costs associated with required technical system changes and costs incurred as a result of any policy/rule changes." – **Duke Energy**

*Some comments have been shortened for the purpose of this presentation. Please see the placket for complete comments.

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 19 - NC Healthy Homes Initiative

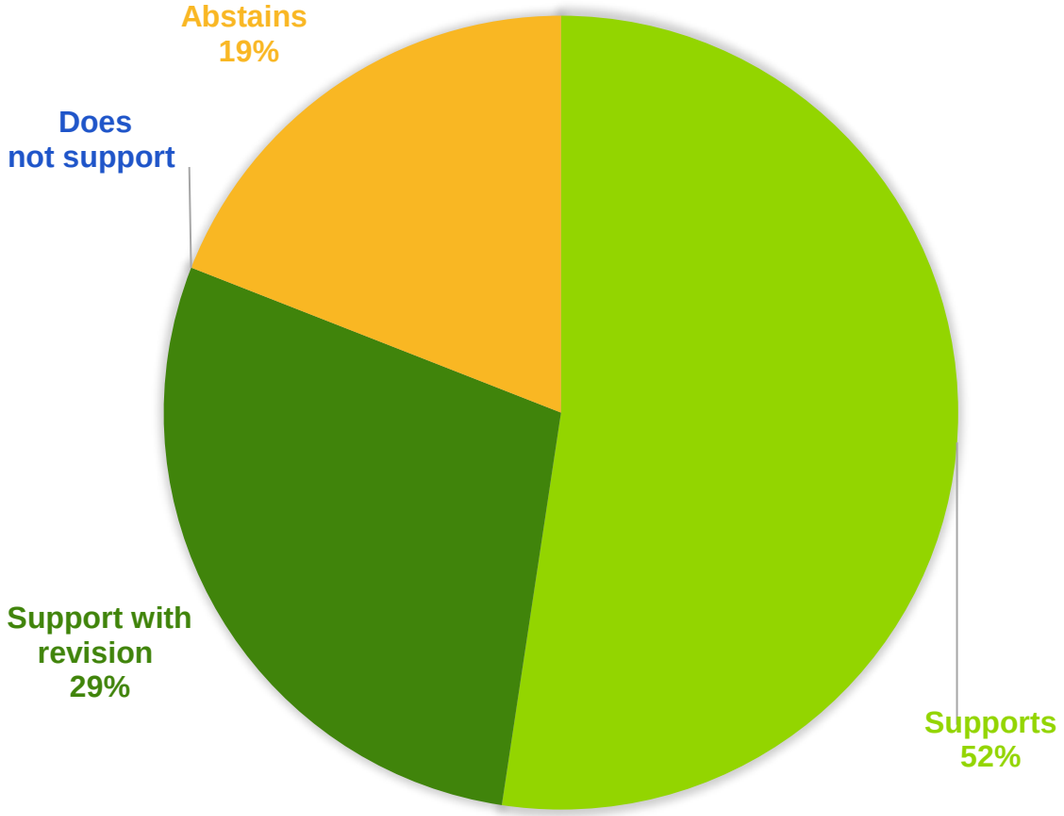


- "This is a critically needed program and builds on NCCAA's experience with the BC/BS grant for the Healthy Homes Initiative and the Duke Healthy Home Fund. But it is not clear from the proposal where the funds would come from for this NC HHI. Ratepayer funds have historically been limited to energy efficiency related upgrades. Ideally, healthcare related funds or other government programs could support an initiative like this to improve the health and safety of homes and make them ready for EE upgrades." – **Southern Environmental Law Center (SELC) & North Carolina Justice Center**
- "This program should be funded first with DOE weatherization funds and LIHEAP." – **AARP**
- "The program administration should be determined by RFQ. Only non-ratepayer funds should be utilized for health and safety work. Ratepayer funds could be used for EE measures and to reduce cost of service." - **Public Staff of the North Carolina Utilities Commission**
- "Scope is focused on healthier home initiative vs removing energy burden via EE initiatives." – **Dominion**
- "We support the intent of the program but think there needs to be more discussion about where the funding for this program comes from since that does not seem to have been defined in this proposal." – **North Carolina Sustainable Energy Association**
- "We strongly support the establishment of consistent funding for health, safety, and incidental repairs to supplement federal, state, and ratepayer funds for energy efficiency. We know there are potential challenges with regard to use of ratepayer funds for these purposes, but are committed to working through the associated regulatory issues and/or assist in seeking additional funding from other sources." – **Southern Alliance for Clean Energy (SACE)**
- "The Companies do not support this proposal as it doesn't have a specific time to the scope of identifying opportunities to address affordability for low-income customers." – **Duke Energy**

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 20 - DEP Weatherization Program

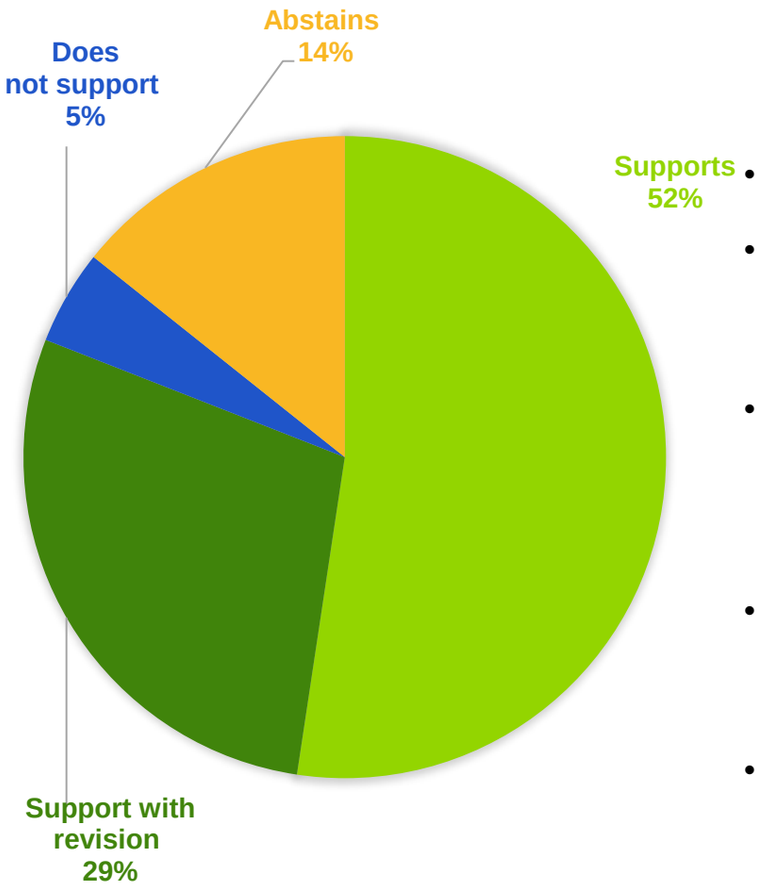


- "For the same reasons that we support LIAC Program Proposal Number 2, which calls for a DEP Weatherization Program modeled after the DEC Weatherization Program, we also support the substance of this Proposal (No. 20). Even though NCCAA has unmatched experience administering this kind of program (as it does the DEC Weatherization Program, Helping Home Fund, and HHI), it is our understanding that Duke Energy would need to go through an RFP process to identify the program administrator and that it may be premature to assign that role to NCCAA at this time." – **Southern Environmental Law Center (SELC) & North Carolina Justice Center**
- "This is not a suggested revision, it's a comment overall on this as well as the other weatherization related proposal/s all of which we do support. Weatherization solutions that are more equitability available for low income families would include more options for rental housing." – **Crisis Assistance Ministry**
- "This program should be funded first with DOE weatherization funds and LIHEAP." – **AARP**
- "The program administration should be determined by RFQ. Only non-ratepayer funds should be utilized for health and safety work. Ratepayer funds could be used for EE measures and to reduce cost of service." - **Public Staff of the North Carolina Utilities Commission**
- "In the statistical analysis, higher winter peak and summer peak usage were associated with a customer being more likely to be in arrears, receive a 24-hour notice, and be disconnected. These results would support reducing high energy use via weatherization." – **Nicholas Institute**
- "The Company plans to file the DEP Income Weatherization Program with the NCUC within the next two weeks." – **Duke Energy**

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 21 - NC Low-Income Energy Major Home Repair

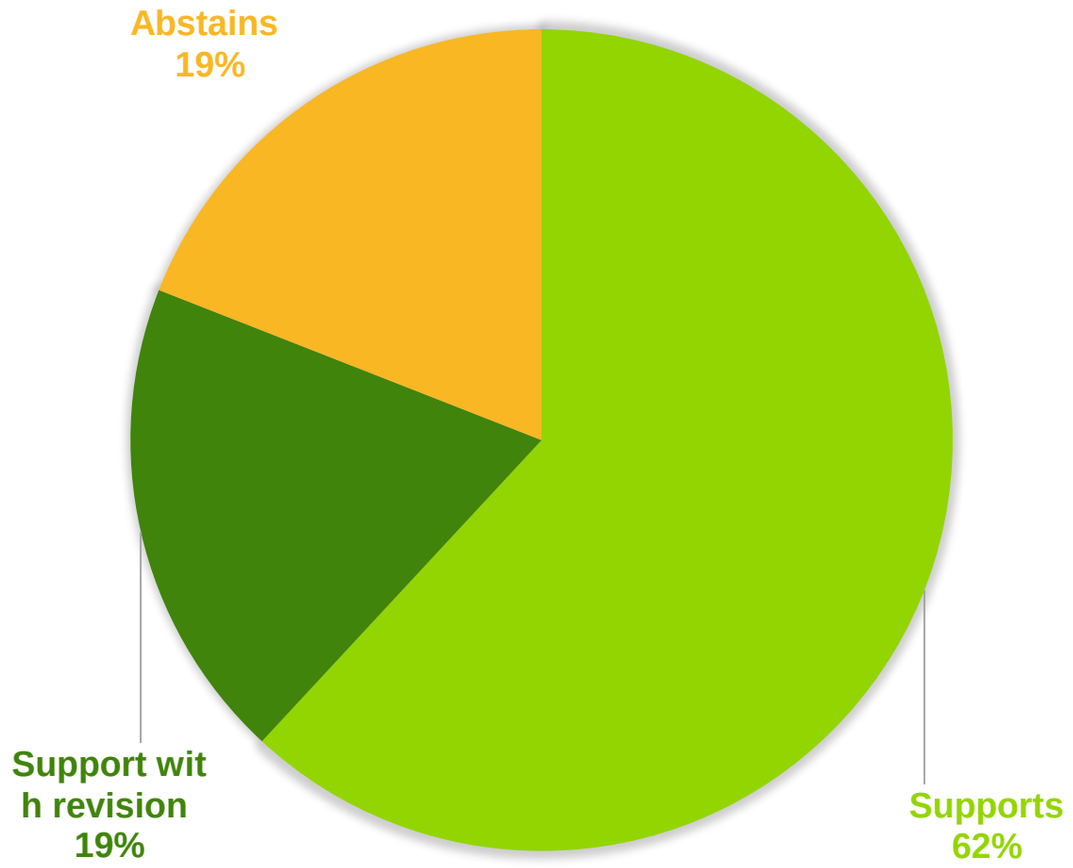


- "As we said with respect to No. 19, this is a critically needed program and builds on NCCAA's valuable experiences. But it is not clear from the proposal where the funds would come from for this Major Home Repair program. Ratepayer funds have historically been limited to energy efficiency related upgrades. Ideally, federal or state funds could support an initiative like this to provide the repairs necessary to make them ready for EE upgrades." – **Southern Environmental Law Center (SELC) & North Carolina Justice Center**
- "We support DOE or infrastructure funds from the Federal government be used for a pilot program." – **AARP**
- "The program administration should be determined by RFQ. Only non-ratepayer funds should be utilized for health and safety work. Ratepayer funds could be used for EE measures and to reduce cost of service." - **Public Staff of the North Carolina Utilities Commission**
- "In the statistical analysis, higher winter peak and summer peak usage were associated with a customer being more likely to be in arrears, receive a 24-hour notice, and be disconnected. These results would support reducing high energy use and this proposal would facilitate that process by providing for repairs and reducing deferrals from weatherization assistance." – **Nicholas Institute**
- "Similar to our response to proposal 19, we support the program but are interested in more discussion about how to fund it since that does not seem to have been defined." – **North Carolina Sustainable Energy Association**
- "We strongly support the establishment of consistent funding for health, safety, and incidental repairs to supplement federal, state, and ratepayer funds for energy efficiency. We know there are potential challenges with regard to use of ratepayer funds for these purposes, but are committed to working through the associated regulatory issues and/or assist in seeking additional funding from other sources." – **Southern Alliance for Clean Energy (SACE)**
- "The Companies do not support this proposal as it doesn't have a specific time to the scope of identifying opportunities to address affordability for low-income customers." – **Duke Energy**

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 23 - Smart $aver Low Income Multi-Family Retrofit



Comments:

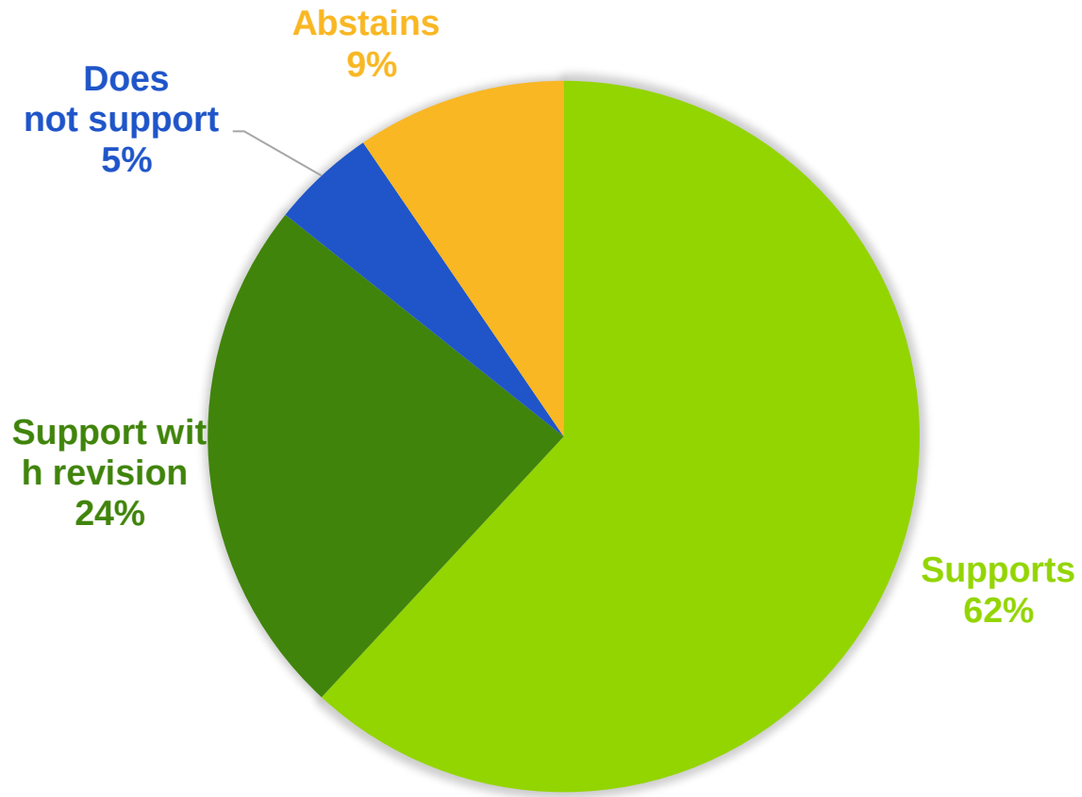
- “We support DOE or infrastructure funds from the Federal government be used for a pilot program.” – **AARP**
- “Ratepayer funds could only be used only for the EE components; non-ratepayer funds could be leverage for non-EE components of this proposal.” - **Public Staff of the North Carolina Utilities Commission**
- “The utility should not be administering the program or leveraging funds. Seems like this should fall under a community action agency or non-profit.” – **Rowan Helping Ministries**
- ”The findings of the statistical analysis support focusing on reducing energy consumption in multi-family housing, particularly multi-family rental housing.” – **Nicholas Institute**
- “The low-income multifamily segment of the Duke Energy customer base is an area of opportunity to assist the income qualified tenants. Duke has been working with a group of interested stakeholders on a investigating a low-income multifamily pilot program and thru that work has identified challenges. The Company will continue to work with the rate-case settlement stakeholder group to work through these challenges in attempts to develop a feasible pilot as there clearly is an opportunity to assist customers, but need to better understand how it fits in the portfolio and get more granular on the specifics of the pilot that Duke will oversee.” – **Duke Energy**

*Some comments have been shortened for the purpose of this presentation. Please see the packet for complete comments.

OFFICIAL COPY
Sep 26 2023

Overview of Assessment Results

Proposal 24 - Customer Affordability Program "CAP"



- "AARP supports such comprehensive and coordinated measures to help low-income customers pay their bills and supports the idea conceptually. We especially like the auto enrollment feature. We would like more information on the complexities created by having three different benefit tiers. A pilot program should be used to test the viability of this new idea." – **AARP**
- "This program is supported to the extent that it is based upon cost of service principles. Participation in applicable EE programs should be required instead of 'highly suggested.'" - **Public Staff of the North Carolina Utilities Commission**
- "In regards to the Tiered approach, DHHS does not currently capture the data necessary to determine the FPL levels discussed in this proposal. For CIP, LIEAP, LIHWAP, SNAP, and Medicaid, a recipient's income eligibility is determined by whether they fall under a certain FPL but what percentage they fall into is not recorded. - **North Carolina Dept of Health and Human Services**
- "Violates cost-causation principles to recover costs from all classes of customers. Costs should be contained to residential class of customers. This proposed interclass cross-subsidization is not consistent with existing NC law, in particular H951." – **Carolina Industrial Groups for Fair Utility Rates (CIGFUR)**
- "The results of the analysis support efforts that would reduce electric burden for households." – **Nicholas Institute**
- "Requirement for participants in program to have an energy efficiency audit to identify ways to reduce energy consumption. Recertification would take into consideration the customers implementation of energy efficiency recommendations and/or use of the free weatherization services." – **Rowan Helping Ministries**

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

OPEN DISCUSSION

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Next Steps

Homework & Look-Ahead

Remaining LIAC Sessions

7/7 – Workshop 9

Next up

WHEN

7/7 – Workshop 9

WHAT

- LIAC Report

YOUR TASK(S)

- Look out for updates on the consolidation of Subteam Tasks and Findings and LIAC report from Guidehouse

OFFICIAL COPY
Sep 26 2023

ADJOURN

THANK YOU

all for your commitment & engagement

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY

Sep 26 2023

Contact

Chip Wood
Partner
chip.wood@guidehouse.com
704.347.7621

Macie Shoun
Consultant
mshoun@guidehouse.com
919.559.7423

Guidehouse

©2021 Guidehouse Inc. All rights reserved. This content is for general information purposes only, and should not be used as a substitute for consultation with professional advisors.

OFFICIAL COPY

Sep 26 2023

APPENDIX F – LIAC

1/26 JOINT COLLABORATIVE MEETING BREAKOUT SESSION FEEDBACK/COMMENTS

DOCKET NOS. E-7, SUB 1213; E-7, SUB 1214; E-7, SUB 1187; E-2, SUB 1219 AND E-2, SUB 1193

OFFICIAL COPY
Sep 26 2023

Guidehouse

North Carolina

Low Income Affordability Collaborative

Joint Collaborative Session

January 26, 2022

Convened by

DUKE ENERGY.

Public Staff
North Carolina Utilities Commission

Guidehouse

OFFICIAL COPY
Sep 26 2023

Welcome

Meet the Session Facilitators

NNEOMMA NWOSU
Breakout Facilitator

MINA HEALEY
Breakout Facilitator

JAMIE BOND
Lead Facilitator for LIAC and Joint Workshop

VIJETA JANGRA
Breakout Facilitator

OFFICIAL COPY
Sep 26 2023

NC Joint Collaborative Session

Agenda | January 26, 2022

SESSION OBJECTIVES

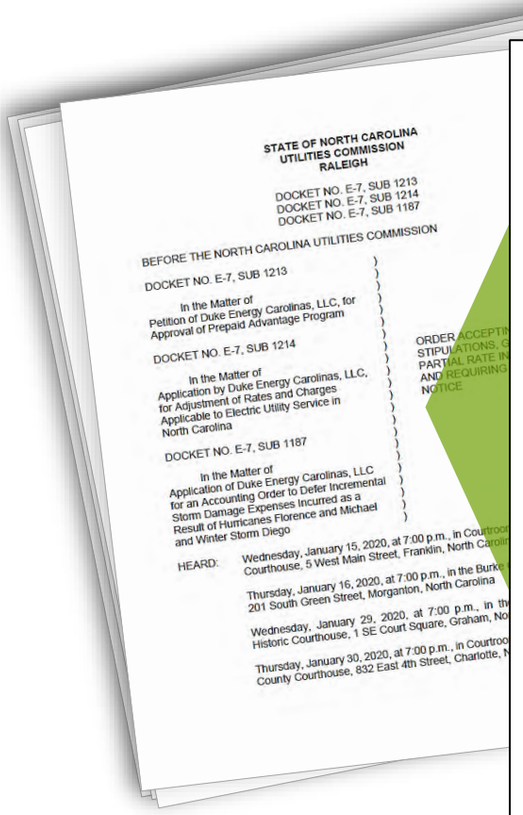
- Understand the overlapping work of the LIAC, EE, CRR collaboratives
- Determine how each collaborative might stay abreast of the ongoing work of other two collaboratives as each carries out their work

Hosted by NC Low Income Affordability Collaborative (LIAC)			
	CONVENE		
I	Welcome, Safety & Agenda	*Jamie Bond (Guidehouse)*	*~30 min*
	Joint Session Objectives	*Conitsha Barnes (Duke)*	
	COLLABORATIVE OVERVIEWS		
II	NC Demand Side Management and Energy Efficiency (EE) Collaborative	*EE Collaborative Members*	*~ 90 min (10 break)*
	NC Comprehensive Rate Review (CRR) Collaborative	*CRR Collaborative Members*	
	NC Low Income Affordability Collaborative (LIAC)	*LIAC Collaborative Members*	
	TOPICAL DISCUSSIONS		
III	Facilitated Group Discussion	*All*	*60-70 min*
	Looking Ahead / Closeout	*Jamie Bond*	
	ADJOURNING	*All (GH Facilitated)*	

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Objectives



STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH

DOCKET NO. E-7, SUB 1213
DOCKET NO. E-7, SUB 1214
DOCKET NO. E-7, SUB 1187

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-7, SUB 1213
In the Matter of
Petition of Duke Energy Carolinas, LLC, for Approval of Prepaid Advantage Program

DOCKET NO. E-7, SUB 1214
In the Matter of
Application by Duke Energy Carolinas, LLC, for Adjustment of Rates and Charges Applicable to Electric Utility Service in North Carolina

DOCKET NO. E-7, SUB 1187
In the Matter of
Application of Duke Energy Carolinas, LLC for an Accounting Order to Defer Incremental Storm Damage Expenses Incurred as a Result of Hurricanes Florence and Michael and Winter Storm Diego

ORDER ACCEPTING STIPULATIONS, G... PARTIAL RATE IN... AND REQUIRING ... NOTICE

HEARD: Wednesday, January 15, 2020, at 7:00 p.m., in Courtroo... Courthouse, 5 West Main Street, Franklin, North Carolin...

Thursday, January 16, 2020, at 7:00 p.m., in the Burke... 201 South Green Street, Morganton, North Carolina

Wednesday, January 29, 2020, at 7:00 p.m., in th... Historic Courthouse, 1 SE Court Square, Graham, No...

Thursday, January 30, 2020, at 7:00 p.m., in Courtroo... County Courthouse, 832 East 4th Street, Charlotte, N...

Given the overlapping nature of the work of the energy efficiency collaborative, the proposed rate study effort, and the affordability collaborative, those working on the three efforts should, to the extent possible, stay abreast of and consider the ongoing work of the separate teams as they each carry out their work.

…

[The Commission recommends a] joint meeting of the three groups to specifically identify and discuss key areas of concern.

Source: Docket No. E-7, SUB 1214 | Application by Duke Energy Carolinas, LLC, for Adjustment of Rates and Charges Applicable to Electric Utility Service in North Carolina | Order Accepting Stipulations, Granting Partial Rate Increase , and Requiring Customer Notice | Evidence and Conclusion for Finding of Fact NOS. 52–54

DUKE ENERGY®

Demand Side Management & Energy Efficiency Collaborative

Comprehensive Rate Review Collaborative

Low Income Affordability Collaborative

Guidehouse | DUKE ENERGY® | Public Staff North Carolina Utilities Commission

Welcome

6092 4118
Mentimeter

Check the Tech:

Who's in "the room"?

INTERACTIVE

OFFICIAL COPY
Sep 26 2023

OFFICIAL COPY
Sep 26 2023

Collaborative Overviews

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

DSM/EE

CRR

LIAC

Carolinas DSM/EE Collaborative

Tim Duff
Duke Energy

Forest Bradley Wright
Southern Alliance for Clean Energy

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

EE Collaborative

OFFICIAL COPY
Sep 26 2023

Carolinas DSM/EE Collaborative

DUKE ENERGY®

EE Collaborative

Purpose

- Originally convened in 2007 to develop the first portfolio of approved DSM/EE programs for DEC
- Took its current form through a series of settlement agreements beginning in 2010
- Not a decision-making body, but rather an open forum focused on maximizing Duke's EE efforts
- NCUC (and soon after the PSCSC) recognized the following:
  - *"the successful development and implementation of EE programs required constant monitoring and modification, and that an advisory group is helpful in that regard"*
  - *"The Commission finds that the Advisory Group provides an important forum for Duke to receive input from a variety of stakeholders. The implementation of the Advisory Group will facilitate innovation and accountability."*

MISSION STATEMENT

The Duke Energy Carolinas Collaborative is an advisory group of interested stakeholders, from across North and South Carolina, representing a wide array of customer groups and interests related to energy efficiency. The Collaborative is a forum for providing insight and input concerning topics related to energy efficiency and DSM including program design and development; measurement and evaluation; regulatory and market conditions; specific issues or topics as requested by the NC Utilities Commission and the Public Service Commission of SC; and emerging opportunities to achieve cost-effective energy savings.

OFFICIAL COPY
Sep 26 2023

EE Collaborative

Membership

- Clemson University Industrial Assessment Center
- NC State University
- NCSEA
- Environmental and Energy Study Institute
- SC Coastal
- Environmental Defense Fund
- DEQ
- SACE
- Energy Futures Group
- ACEEE
- Upstate Forever
- NC DENR
- SC State Energy Office
- NC Housing Coalition
- CUCA
- Green Built Alliance
- SC Community Action Partnership
- NC Justice Center
- Blue Horizons Project
- NC Public Staff
- SC ORS
- Institute of Energy Professionals
- Clean Energy Group
- Advanced Energy
- Vote Solar
- Apartment Association of NC

OFFICIAL COPY
Sep 26 2023

EE Collaborative

The Collaborative's Role

Be the voice for the constituents the members represent

Bring the best ideas from around the country to Duke staff

Vet Duke's programs so that customers can be sure they are the result of a good faith effort to serve responsibly

Understand the obstacles Duke faces to expanding EE/DSM and use the influence of our separate organizations to overcome those obstacles

Advance the cause of EE/DSM on all levels

Support efforts, both inside and outside Duke, to innovate and expand EE/DSM customer programs into the next era of EE technology

OFFICIAL COPY
Sep 26 2023

EE Collaborative

Signs of Successful Collaboration

Regular, robust engagement

- Meets at least every other month often more
- Agenda set by members
- Annual priorities from members and Commissions

Fewer issues requiring litigation

- Program modifications and development vetted in the Collaborative
- Informal information sharing promotes problem solving and trust
- Commission may direct the Companies to work with the collaborative to investigate areas of interest

Transparency regarding program performance and operation

- EM&V and program changes discussed in advance of filing
- SME give explanations and receive feedback on marketing, measures, challenges, etc.

OFFICIAL COPY
Sep 26 2023

EE Collaborative

Income Qualified Programs in the Carolinas - NES

Neighborhood Energy Saver

- Offered in both DEP and DEC
- Targets neighborhoods with at least half of residents at or below 200% of FPL
- No individual income qualification necessary
- Begins with coordinating a neighborhood event along with community organizations
- Each participating home receives the following:
  - In-home, walk-through energy assessment to identify EE opportunities
  - One-on-one education on EE techniques and measures
  - Comprehensive package of energy efficient measures installed by the auditor
- The goal in 2021 was to serve 11,500 homes in NC and SC

OFFICIAL COPY
Sep 26 2023

EE Collaborative

Income Qualified Programs in the Carolinas – Weatherization

Weatherization and Equipment Replacement Program

- Currently offered in DEC only, but expansion into DEP is underway
- Delivered by the State agencies that administer the state's weatherization programs
- Participating homes receive a full energy audit to determine appropriate measures
- Homes may receive any or all of the following:
  - Tier 1 homes receive $600 in weatherization measures
  - Tier 2 homes receive up to $4,000 for insulation, duct repair and air sealing;
  - Tier 2 homes may also receive up to $6,000 for a heating system replacement with a 15 or greater SEER heat pump
  - Any home could be eligible for refrigerator replacement with an Energy Star appliance.
- 2021 Goal was 535 Weatherization projects and 275 refrigerator replacements

OFFICIAL COPY
Sep 26 2023

EE Collaborative

Pilot Program

Pay for Performance Pilot

- In Buncombe County, NC (DEP territory)
- Provides incentives to local weatherization assistance providers and other non-profit organizations
- Incentive payments are based on the kWhs saved from the additional EE measures installed
- Goal is to fund more measures than the organizations would have been able to afford
- Pilot approved for 3 years with 6-month extension for EM&V; currently in year 3
- Through June 2021, the pilot has served 297 homes and incentivized 3,480 measures

OFFICIAL COPY
Sep 26 2023

EE Collaborative

Studies Underway – Non-Energy Benefits

Goal is to identify and quantify the benefits with the greatest value to the programs

Values can be used to make TRC more accurate by including all benefits not just energy-related ones

modeling to quantify pertinent non-energy benefits (benefits beyond energy and demand savings) for customers and the utility

residential customers participating in the following programs:

- Smart $aver EE Program (HVAC)
- My Home Energy Report (MyHER) Program
- Income-Qualified EE and Weatherization Program for Individuals
- Residential Energy Assessment Program
- Multifamily EE Program

Study expected to be complete early Q2

OFFICIAL COPY
Sep 26 2023

EE Collaborative

Studies Underway – LMI Participation

- Characterize LMI customer participation in Duke Energy's energy efficiency programs;
- Compare LMI customer participation to that of non-LMI customers;
- Measure energy burden reductions achieved through LMI customers participating in Duke Energy's programs;
- Identify drivers and barriers to participation among LMI customers; and
- Identify strategies to increase LMI customer participation through programmatic enhancements.
- The LMI study scope includes activities such as
  - participation analyses in LMI and non-LMI programs
  - consumption analyses
  - customer surveys to assess drivers and/or barriers to participation
  - arrearage and service disconnections analyses
  - provide insight into how Duke Energy can enhance programs to increase market penetration in the targeted populations and neighborhoods in the most cost- effective manner possible.
- Targeted completion in August 2022
- Low Income defined as up to 50% of area median income and moderate is 50-80% of area median income

OFFICIAL COPY
Sep 26 2023

EE Collaborative

OFFICIAL COPY
Sep 26 2023

EE Collaborative Current Low-Income Program Efforts

Forest Bradley Wright
Energy Efficiency Director
Southern Alliance for Clean Energy

EE Collaborative
OFFICIAL COPY
Sep 26 2023

EE Collaborative Low-Income Priorities

- Expand the scale of low-income EE spending and impact
- Serve customers with the greatest need, including hard to reach customer segments
- Deliver enough savings to meaningfully impact household finances
- Close the spending and savings gap between DEP and DEC
- Overcome program delivery barriers in South Carolina

EE Collaborative
OFFICIAL COPY
Sep 26 2023

DEC Durham Pilot

Lessons Learned and Next Steps

- A modified deployment of DEC Income Qualified Weatherization program
- Administered directly by North Carolina Community Action Assoc.
- Able to serve customers not receiving WAP dollars
- Qualifying customers are both low income and high energy intensity
- Increased per household spending - allowed for both HVAC replacement and comprehensive package of EE retrofits
- The pilot's added flexibility enabled DEC to spend its full program budget
- A process evaluation noted promising potential, but lacked full measurement and verification analysis needed for permanent deployment

EE Collaborative
OFFICIAL COPY
Sep 26 2023

DEP Income Qualified Weatherization

- Built off the existing DEC Income Qualified Weatherization program
- Deeper savings and farther reach than Neighborhood Energy Saver
- Will help to close a spending, savings, and program offering gap between DEP and DEC
- Currently in stakeholder input stage
- Advocates are seeking flexibility in program design to serve non-WAP customers, allow spending limit flexibility, and accommodate future insights from upcoming pilot programs

EE Collaborative

OFFICIAL COPY
Sep 26 2023

2020 Duke Rate Case Settlement

Overview

Settling parties: DEC/DEP, NCSEA, NCJC, NCHC, NRDC, SACE

- $6 Million of shareholder dollars for the Helping Home Fund
- Low Income Energy Efficiency Pilot Programs
- Tariffed On-Bill EE Pilot Program

EE Collaborative

Helping Home Fund

2020 Rate Case Settlement Agreement

- Added $6 million to a pre-existing shareholder funded program
- Free of EE-only spending restrictions that apply to ratepayer funds
- May be used for health, safety, and incidental repair work that would otherwise prevent access to EE services
- 2017 analysis found significant energy and non-energy benefits
- Advocates recommending use of HHF dollars exclusively to leverage and expand beyond what Duke ratepayer funded programs cover:
    1. Health, Safety, and Incidental Repairs
    2. Additional EE improvements above existing per home limits (based on needed)
    3. Reaching low-income households who would not otherwise have been served by WAP or other Duke income-qualified EE programs

OFFICIAL COPY
Sep 26 2023

EE Collaborative

OFFICIAL COPY
Sep 26 2023

Low-Income EE Pilot Programs

2020 Rate Case Settlement Agreement

Pilot Concept 1: Deep Retrofits for High Energy Use Income Qualified Customers

Follows through on insights from the Durham Pilot

Also examining effect on persistent arrearages, energy burden, and winter peak

Concept to be presented to the EE Collaborative on January 27th

Pilot Concept 2: Comprehensive Multifamily

Seeks to deliver deep efficiency savings to highly prevalent but hard to reach customers

Unique challenges to overcome:

- Split incentive between renters / landlords
- Improvement measures impact multiple customers
- Limited data available for analysis

Pilot concept is at an earlier stage of development, application later this year

EE Collaborative
OFFICIAL COPY
Sep 26 2023

Tariffed On-Bill Pilot Program

2020 Rate Case Settlement Agreement

- Save money on utility bills while overcoming upfront cost barrier
- Pay-As-You-Save or other mutually agreed upon design
- Serve 700-1000 participants over three years
- Ultimate aim is to scale up throughout Duke's service territory in the Carolinas
- 11 issue criteria are identified in Settlement Agreement
- Intended to be accessible regardless of customer credit history
- Monthly working group meetings open to all interested parties

EE Collaborative

The Cost Effectiveness Framework

- 0.5 Utility Cost Test (UCT) threshold for income qualified programs
- What drives up costs when serving low-income customers?
- Who gets served, who does not
- Potential implications of Non-Energy Benefits analysis (underway)
- The need for additional low-income customer resources
- Leveraging non-utility sources of funding
- Coordination of EE and non-EE services to cover the gaps

OFFICIAL COPY
Sep 26 2023

EE Collaborative
OFFICIAL COPY
Sep 26 2023

Cross Collaborative Coordination

- Data sharing
- Recognizing needs and covering gaps
- Delegation and coordination of work efforts
- Identifying additional (non-utility) resources
- Establishing a broad base of support ahead of NCUC applications

OFFICIAL COPY
Sep 26 2023

DSM /EE Collaborative:

Cross Collaborative Coordination?

INTERACTIVE

OFFICIAL COPY
Sep 26 2023

DSM/EE

CRR

LIAC

Comprehensive Rate Review Collaborative

Bradley Harris
Duke Energy

Thad Culley
Sunrun

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

CRR Collaborative

OFFICIAL COPY

Sep 26 2023

Comprehensive Rate Review Study

Presentation for Joint CRR/LIAC/EE Collaborative Meeting

DUKE ENERGY®

CRR Collaborative

Comprehensive Rate Review

- Overview
- Recap of various topics
  - TOU Period Review
  - Net Metering
  - EV Rate Design
- Residential Rate Design – Thad Culley
- Cross-over with LIAC

OFFICIAL COPY
Sep 26 2023

CRR Collaborative

Overview of the Comprehensive Rate Review (CRR)

OFFICIAL COPY
Sep 26 2023

Scope

- Comprehensive: all current rate schedules + new rate structures

Deliverables

- A comprehensive review of Duke's rate offerings: load/cost and rate schedule evaluations
- A roadmap for how Duke plans to evolve its rates over time: sequencing, timelines, additional studies, etc.

Timing

- 12 months, ending March 31, 2022 with NCUC filing
- Quarterly Progress Reports:
  - Recently published: October 21, 2021 (Q3 2021)
  - Next: January 21, 2022 (Q4 2021)

Process

- Facilitator: ICF
- Stakeholder Forums
  - Forum 1: August 25, 2021
  - Forum 2: November 16, 2021
  - Forum 3: February 10, 2022
- Stakeholder Working Groups (WGs)
  - WG1: Fast Track – TOU, NEM, EVs
  - WG2: Hourly Pricing & Economic Development
  - WG3: Residential
  - WG4: Non-Residential

CRR Collaborative

Overview of Stakeholder Engagement from August-November

Working Group 1: Fast Track Topics

Since last forum

- Subgroup E: Review Load Forecasting Data (NDA Only) – 9/2
- Subgroup F: Bill Impact Follow-up/Final Discussion – 9/14
- Session 2: EV Rates – 9/29
- Subgroup A: Residential EV Rates 10/27
- Subgroup B: Non-Residential EV Rates 11/4
- Subgroup C: Residential EV Rates 11/10

Upcoming

- Subgroup D: Non-Residential EV Rates 11/17

Working Group 2: Hourly Pricing & Economic Development

Since last forum

- Session 1: Hourly Pricing 9/15
- Subgroup A: Marginal Cost Pricing Analysis 9/21
- Subgroup B: Stakeholder Presentations 9/28
- Subgroup C: Modified Economic Development Rider, Dynamic Pricing for Large Businesses 10/12
- Subgroup D: Expanded HP rate, CBL 10/19
- Subgroup E: Reviewed HP and Econ Dev feedback to date 11/2

Upcoming

- Session 2 - December

Working Group 3: Residential Rates

Since last forum

- Residential Rate Overview – 9/20
- Session 1: Existing Rates and TOU Proposal Review 9/27
- Session 2: HB 951, Tariff Availability, Schedule RT, Fixed Charges and Min Bill Analytics – 10/20
- Session 3: Analytics – 11/3

Upcoming

- Session 4 – 12/10

Working Group 4: Non-Residential Rates

Since last forum

- Session 2: Load-Factor Based Rates 9/8
- Subgroup A: non-residential NEM 9/14
- Subgroup B: Load Aggregation 9/15
- Session 3: Demand Response & Interruptible/Curtailable Rates10/13

Upcoming

- Duke Subgroups C-G
- Session 4 – late Feb.

Additional Activities

Parallel efforts

- Low-Income Stakeholder Collaborative
- DSM/EE Stakeholder Collaborative
- Electric Transportation Stakeholder Working Group (presentation on CRR efforts given on 11/12)

OFFICIAL COPY
Sep 26 2023

CRR Collective

Rate Design Study: NCUC Order Overview

NCUC Order Excerpts

- "The exercise…should provide the Commission with critical information regarding load characteristics of customers and customer classes, associated costs, and impacts to customers that could be used to inform future decisions of the Commission."
- "The Rate Design Study should…address the potential for new schedules to address the changes affecting utility service [and] provide more rate design choices for customers"
- "The Rate Design Study should…include an analysis of each existing rate schedule to determine whether the schedule remains pertinent to current utility service"

- "The Commission concludes…rate design must evolve in order to maximize the efficiency and effectiveness of these new technologies and ensure usage of the electric system that is consistent with the public interest"
- "The Commission…expects…the Rate Design Study will address the costs and benefits of customer-sited generation."

- "The Rate Design Study should…explore the feasibility of consolidating the rates offered by DEC and DEP."
- "The Commission is persuaded that in depth evaluation, debate, and discussion by and among stakeholders regarding cost to serve, rate design, and making the most efficient use of the electric system is necessary to achieve results that are in the public interest"

Bonbright Principles*

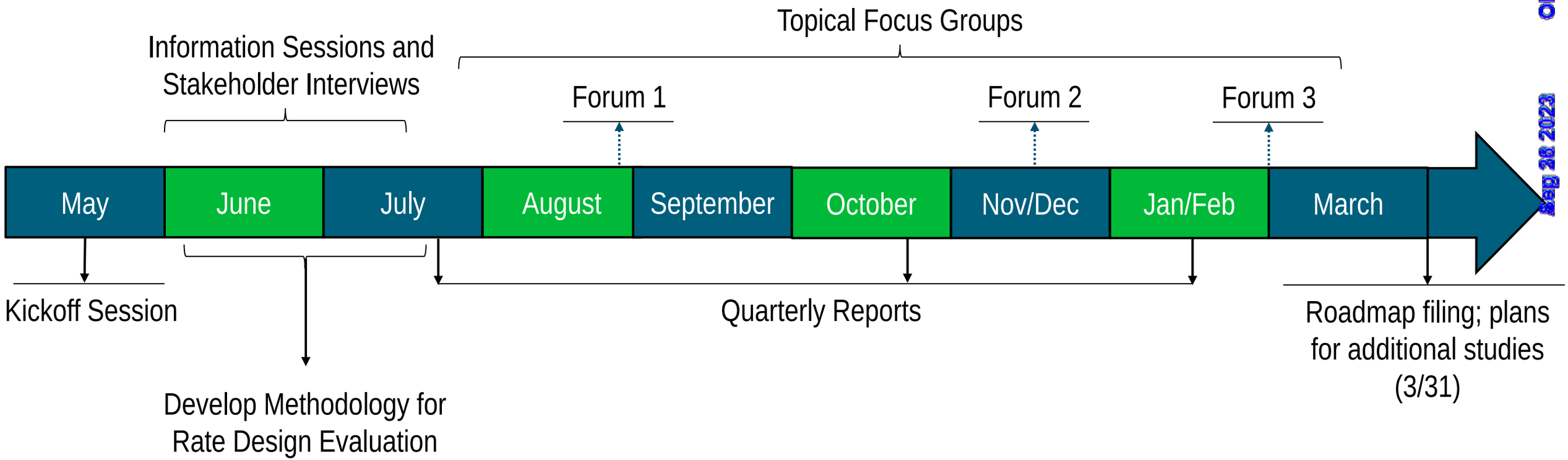
- Reflect cost causation
- Avoid undue discrimination
- Promote efficient use
- Discourage wasteful use
- Yield revenue requirement
- Stability and predictability
- Fairness in cost apportionment
- Practical – simple, understandable, feasible application

*From Principles of Public Utility Rates by James Bonbright

OFFICIAL COPY
Sep 26 2023

CRR Collaborative

Timeline

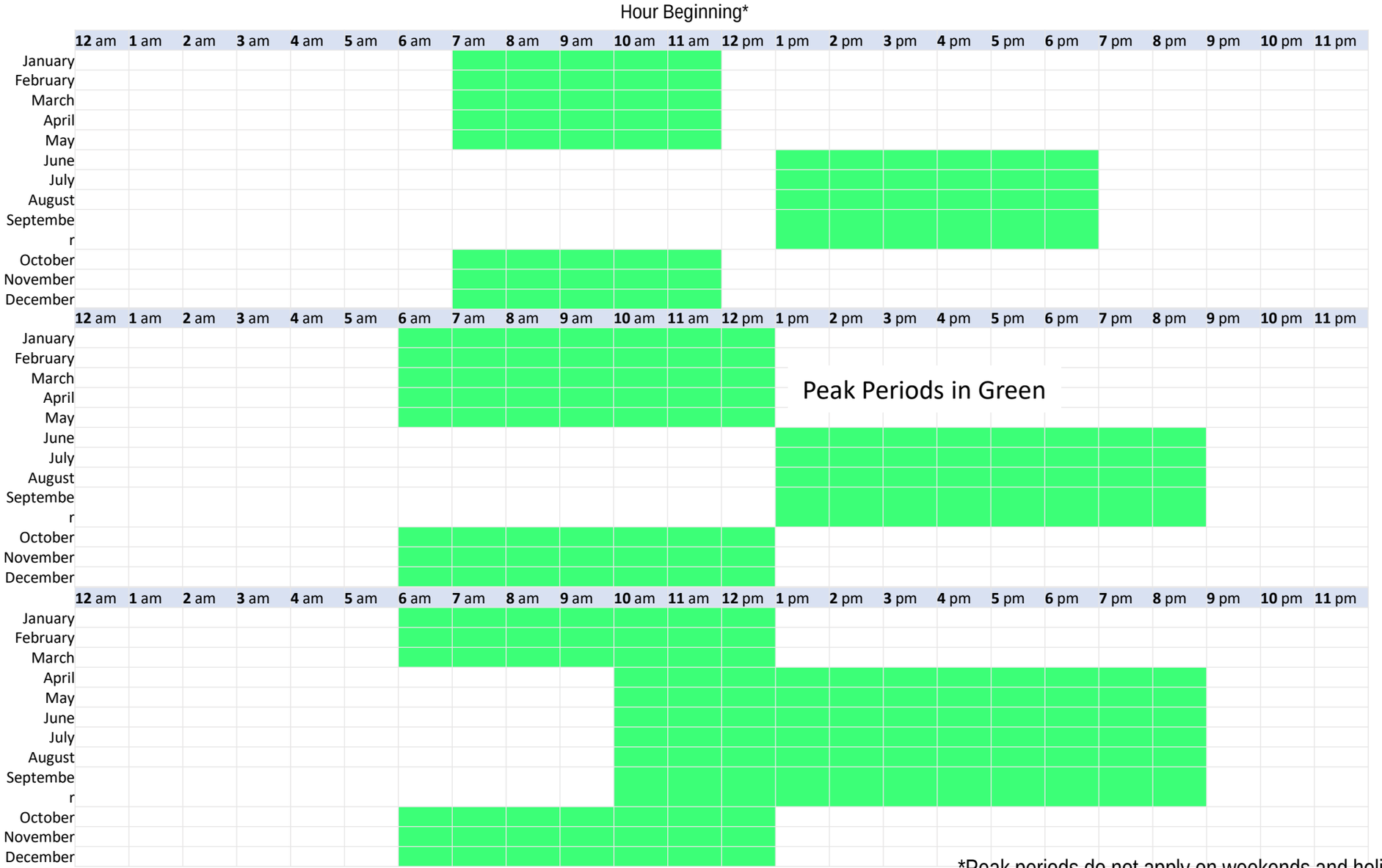


"Flexibility is necessary to ensure robust discussion amongst stakeholders."

OFFICIAL COPY
Sep 26 2023

CRR Collaborative

Aligning TOU Periods between DEC/DEP and Rate Schedules



*Peak periods do not apply on weekends and holidays

OFFICIAL COPY
Sep 26 2023

CRR Collaborative

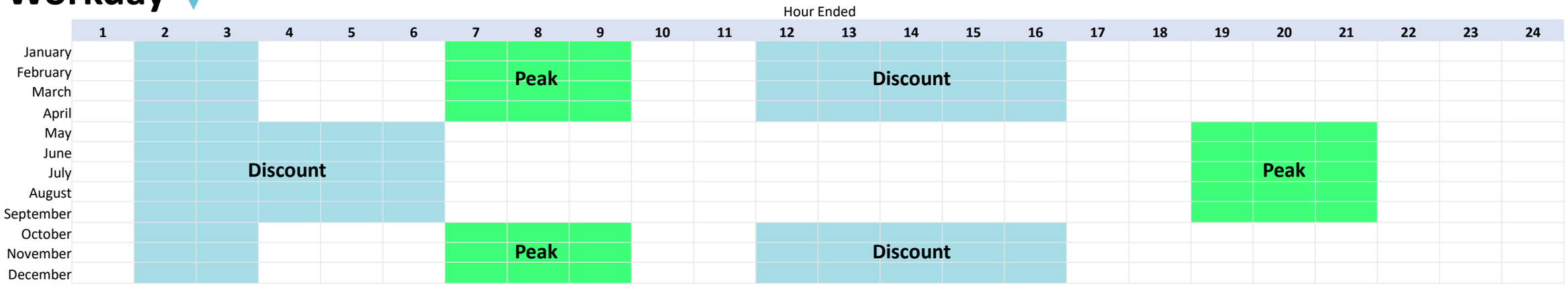
New Time of Use Proposal

OFFICIAL COPY
Sep 26 2023

Overnight Discount for EV charging in all months

Fewer peak hours overall

Workday



Shorter peaks are easier for customers to respond to

Mid-day Discount reflects impact of solar

CRR Collaborative

Residential EV Rate Designs

OFFICIAL COPY
Sep 26 2023

Activities and findings to date – EV Rates (Initial discussion session – 9/29)

- Duke presented on the scope of the EV rates discussion within the context of the CRR, as well as actions Duke has taken to date regarding EVs.
- Four stakeholders presented on EV rate designs topics & case studies, including: principles for EV rate design, effective residential EV design, residential charging in Xcel territory in Minnesota, PG&E EV subscription rate. Stakeholders provided the following feedback in response:
  - Stakeholders consistently highlighted a need to consider the interactions between EV charging and other customer-sited energy technologies such as solar, battery storage, and smart thermostats.
  - Stakeholders highlighted a desire to avoid demand charges in EV rate design, indicating a preference for TOU rates that encourage off-peak charging and charging during times when excess solar is available on the grid.
  - Stakeholders provided mixed opinions on EV subscription rates for residential customers. Some stakeholders presented in favor of exploring subscription rate options at the initial EV rates meeting, but subsequent proposals have not been broadly supported by stakeholders.
  - Stakeholders were interested in exploring managed charging options, EV-only TOU rates, and credits for charging off peak.

CRR Collaborative

OFFICIAL COPY
Sep 26 2023

Non-Residential EV Rate Designs

Activities and findings to date – Non-Residential EV Rates (Subgroup on 11/4)

In response to stakeholder case studies and reactions to case studies, Duke presented several **Non-Residential** EV rate options:

- TOU Rates:
  - Duke presented how the new TOU periods could benefit EV charging by offering shorter peak periods and creating a discount TOU period.
- Transitional Relief:
  - Duke presented potential economic development options as a way of kickstarting the market.
- Low-Load Factor Rates:
  - One stakeholder indicated that LLF rates would only help in specific applications.
  - Another stakeholder expressed that there were pathways to creating permanent LLF rates.
- Hourly Pricing Rate:
  - One stakeholder indicated that current thresholds for participation in hourly rates should be revisited (as it has been discussed in WG #2)
  - Another stakeholder indicated that Duke might need to revisit the way that hourly pricing is included in cost-of-service studies if the rate's applicability is modified.
  - Another stakeholder indicated that this is a complex rate design
- Critical Peak Pricing (CPP):
  - One stakeholder was interested in learning exactly how high critical peak prices would be, so as not to discourage customers from charging in emergencies. Another stakeholder thought CPP prices should be very high, so as to encourage responsive behavior.
  - One stakeholder emphasized CPP rates should be optional. Duke indicated the rate would remain optional for EV customers.
  - One stakeholder indicated that fleets would be very willing to respond to CPP events as long as they are infrequent.

CRR Collaborative

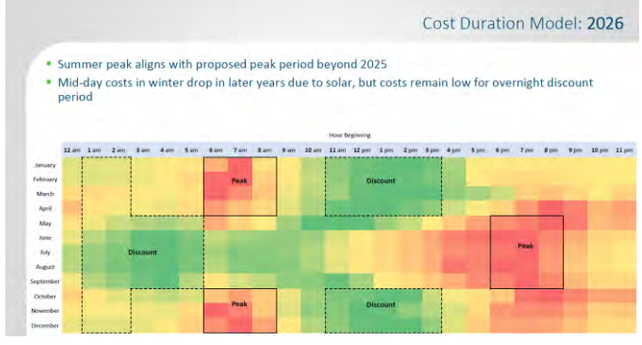
OFFICIAL COPY
Sep 26 2023

Net Metering Discussions

Rate Schedule Design

Design TOU periods that reflect system costs based on historical load, load forecasts and reliability studies

Calculate TOU prices that are revenue-neutral to the rate class using the Cost Duration Model and most recent approved Cost of Service Study

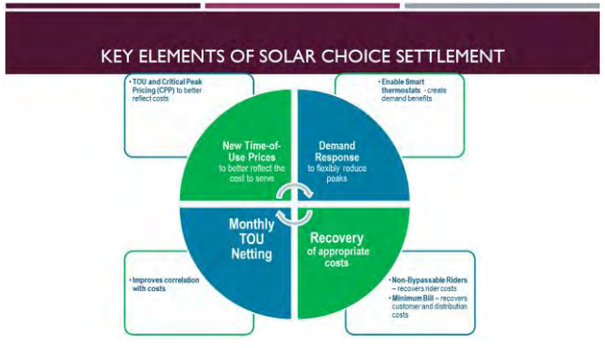


Net Metering Design

Design NEM structure based on industry best practices and local experience/context

- Netting policy
- Non-bypassable charges
- Grid access fee
- Minimum bill

Refine prices to minimize embedded and marginal cross-subsidization

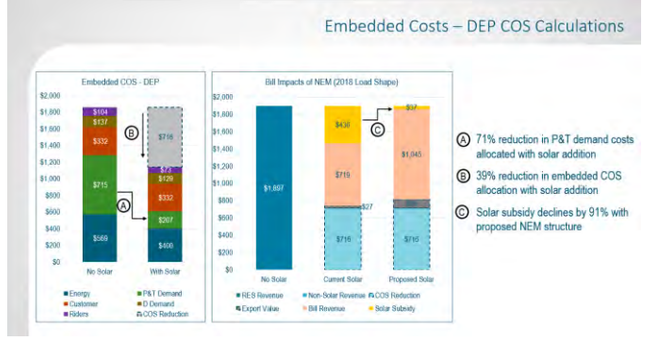


Impact Analysis

Customer: Estimate bills, savings and payback period using actual customer usage and solar data

Rate Class: Calculate cost of service for NEM customers and compare with estimated revenue from new design

- Embedded view (rate base)
- Marginal view (incremental)



CRR Collaborative

Overview of Current Residential Offerings

OFFICIAL COPY
Sep 26 2023

- DEC
  - Residential Service (RS)
  - Residential Service, Electric Water Heating and Space Conditioning (RE)
  - Residential Service, Energy Star (ES)
  - Residential Service, Time of Use (RT)
  - Residential Service, Time of Use with Critical Peak Pricing (RSTC)
  - Residential Service All-Electric, Time of Use with Critical Peak Pricing (RETC)

- DEP
  - Residential Service (RES)
  - Residential Service, Time of Use (R-TOUD)
  - Residential Service, Time of Use (R-TOU)
  - Residential Service, Time of Use with Critical Peak Pricing (R-TOU-CPP)

CRR Collaborative

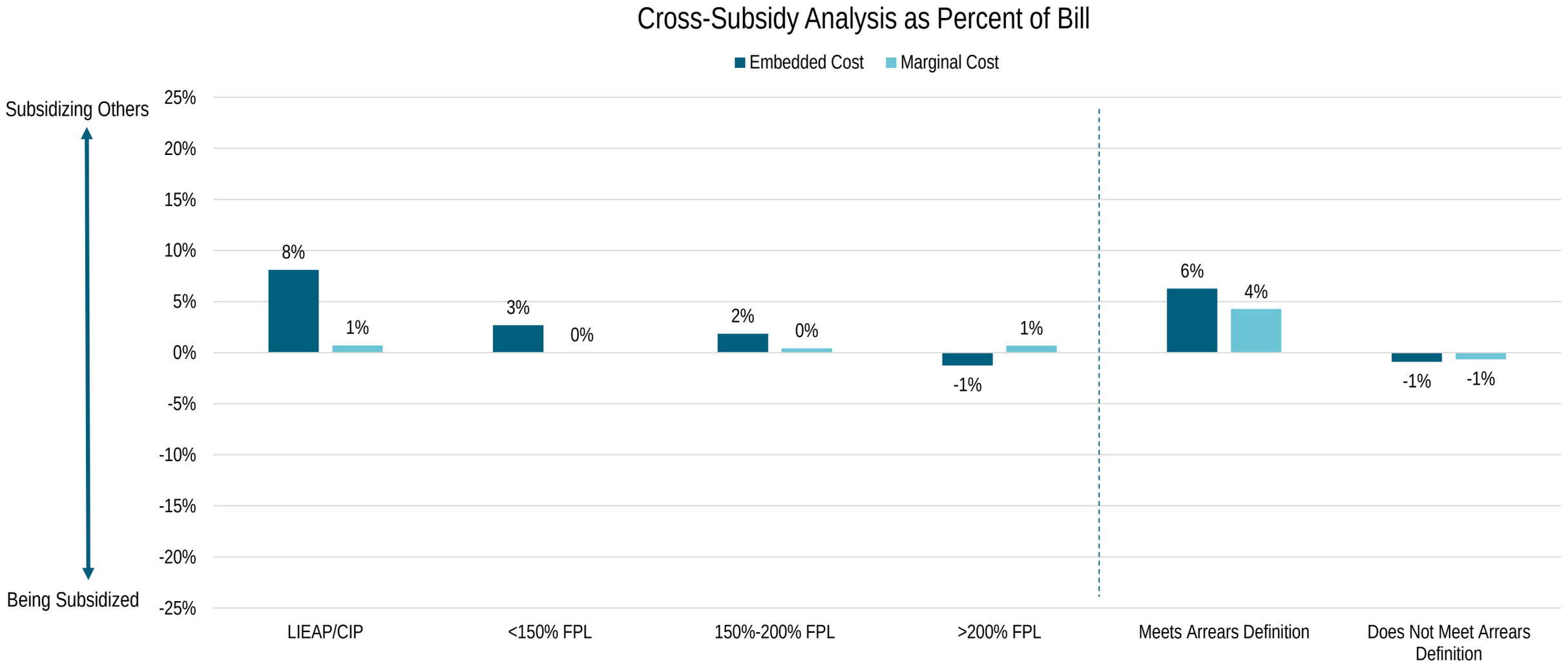
Residential Rate Design Issues Discussed

- Minimum Bill Analysis (same as shared with LIAC)
- DEC-NC RE, Declining Block Rate
- DEP-NC RES, Seasonal Price Difference
- All Electric Rate Design Option
- Demand Charge TOU Options
- Residential Rate Availability (i.e. permanent foundation language)

OFFICIAL COPY
Sep 26 2023

CRR Collaborative

Cross-Subsidy Analysis by Income and Arrears Status



% Total Customers in Category*	3%	12%	8%	63%	12%	88%

*Not all customers can be categorized, resulting in percentages not necessarily summing to 100%

OFFICIAL COPY
Sep 26 2023

CRR Collaborative

Delineation between CRR and LIAC

CRR

- Analysis of rate designs
- Impact of rate designs on multiple policy priorities including low-income/vulnerable customers

LIAC

- Analysis of low-income/vulnerable customers
- Consideration of programs to aid low-income/vulnerable customers including:
  - Additions to standard rate designs to provide discounts such as the SSI discount in DEC-NC
  - Income-based designs that layer on top of the standard rate designs such as PIPP
  - Other discounts/policy changes

OFFICIAL COPY
Sep 26 2023

CRR Collaborative

OFFICIAL COPY

Sep 26 2023

Comprehensive Rate Review Study

Presentation for Joint CRR/LIAC/EE Collaborative Meeting

DUKE ENERGY®

OFFICIAL COPY
Sep 26 2023

Comprehensive Rate Review:

Competing Priorities?

INTERACTIVE

OFFICIAL COPY

DSM/EE

CRR

LIAC

Low Income Affordability Collaborative

Conitsha Barnes
Duke Energy

Rory McIlmoil
Appalachian Voices

La'Meshia Whittington
Advance Carolina

Detrick Clark
NC Community Action Association

Sep 26 2023

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Low Income Affordability Collaborative (LIAC) Overview

- North Carolina Utilities Commission approved the Company's request to host a Low Income Affordability Collaborative.

- 12-month collaborative process includes evaluating a broad spectrum of regulatory programs and protections for low-income customers, ranging from affordability programs to potential new tariffs and other initiatives.

- LIAC membership represent over 30 organizations approved by the NCUC
  - Members represent government agencies, consumer advocates, low-income agencies, utilities and environmental groups

LIAC Collaborative

Low Income Affordability Collaborative Overview

	Subteam A	Subteam B	Subteam C	Subteam D
Co-Leads	**Rory McIlmoil:** Appalachian Voices **Arnie Richardson** Duke Energy	**Conitsha Barnes** Duke Energy **La'Meshia Whittington** Advance Carolina	**Detrick Clark** NC Community Action Association **Ken Szymanski** Apartment Association of NC	**Thad Culley** Sunrun **Paula Hemmer** NC DEQ State Weatherization
Scope of Work	**Assess Challenges:** Assessing current energy affordability challenges facing residential customers	**Define Affordability:** Developing suggested metrics or definitions for "affordability" in the context of the Company's provision of service in its North Carolina service territory and explore trends in affordability	**Assess Current State:** Investigating the strengths and weaknesses of existing rates, rate design, billing practices, customer assistance programs and energy efficiency programs in addressing affordability	**Collaborative Coordination:** Coordinate between the affordability collaborative and the rate study and energy efficiency stakeholder groups

OFFICIAL COPY
Sep 26 2023

OFFICIAL COPY
Sep 26 2023

LIAC Subteam A

LANGUAGE FROM THE COMMISSION ORDER

Prepare an **assessment of current affordability challenges** facing residential customers. The assessment should:

- Provide an **analysis of demographics of residential customers**, including number of members per household, types of households (single family or multi-family), the age and racial makeup of households, household income data, and other data that would describe the types of residential customers the Company now serves. To the extent demographics vary significantly across the Company's service area, provide additional analysis of these demographic clusters.
- **Estimate the number of customers** who live in households with incomes at or less than 150% of the federal poverty guidelines (FPG), and those whose incomes are at or less than 200% of the FPG.
- For the different demographic groups identified as part of a. and b., provide an **analysis of patterns and trends** concerning energy usage, disconnections for nonpayment, payment delinquency histories, and account write-offs due to uncollectability.

OFFICIAL COPY
Sep 26 2023

Analysis Overview

Included in Analytics

- Insights into customers under 150% and 200% federal poverty level (FPL)
- Demographic/housing including dwelling type, heating source, renter/owner, racial makeup, age of account holder, housing value, population density, and number of people in the household
- Trends in delinquency, write-offs, disconnect non-pay (DNP), energy usage and energy intensity
- Analysis of Low-Income Energy Assistance Program and Crisis Intervention Program (LIEAP/CIP) recipients AMI Load Shapes
- Tables including relative information

Future Iterations

- Zip code level data (pending commission approval)
- Mobile/Manufactured Homes analysis (pending quality data source)
- Electric Burden analysis
- Statistical analysis

Analysis was completed pre-covid from 3/2019-2/2020 on all NC customers who were active for the entire 12-month period

OFFICIAL COPY
Sep 26 2023

Assessment of Customer Affordability Challenges

Significant number of Duke Energy customers qualify as low-income

- The ability to afford basic needs and services, including energy bills, is directly related to household income
- "Low-income" = households falling under 200% of FPL
  – Only customers < 130% FPL qualify for heating/cooling and crisis assistance in NC

Category	% All Customers	No. Customers (2.37M)	No. Customers (3.07M)
LIEAP/CIP	2%	52,028	52,028
< 150% FPL	15%	360,934	460,500
150 - 200% FPL	11%	258,004	337,700
Total low-income	28%	670,966	850,228

OFFICIAL COPY
Sep 26 2023

Assessment of Customer Affordability Challenges

Significant number of customers meet the “arrears definition”

- “Arrears definition” means customers 1x behind on bill for 6+ months, or 2x behind for 2+ months
- Amounts to ~15% of all residential accounts, or 360,000 to 460,000 households (60% > 200% FPL)
- ~150,000* low-income households also met arrears definition (23% of all low-income)
  - Amounts to 26% of households < 150% FPL
- Categories disproportionately meeting arrears definition:
  - low-income
  - African American and Hispanic
  - multi-family and rental
  - urban/city
  - low-value (market value of less than $100,000)
  - all-electric
  - age of the primary account holder was 54 years old
  - single-person

OFFICIAL COPY
Sep 26 2023

Assessment of Customer Affordability Challenges

Energy intensity (kWh/square foot) is a driving factor

- Low-income (incl. LIEAP/CIP) and arrears struggling households have much higher energy intensity than non-low-income
  - Same with rural, younger, low-value, multi-family and rental households
- LIEAP/CIP recipients have energy intensity ~25% greater than other low-income, and 60% greater than non-low-income
- Arrears struggling households have 25-35% higher energy intensity for all customer segments
- Higher energy intensity likely (in part) related to poor housing quality and lower energy efficiency
  - Higher energy intensity results in higher usage and electric bills
  - Not causal, but supported by seasonal usage for low-income and arrears struggling households

OFFICIAL COPY
Sep 26 2023

Assessment of Customer Affordability Challenges

Seasonal energy intensity drives higher bills

- LIEAP/CIP:
  - Energy intensity is double that of non-low-income households in the winter, 40% higher in summer
  - 100% higher bill in winter and 70% higher in summer than non-low-income
- Low-income, not LIEAP/CIP:
  - 33% higher energy intensity than non-low-income households in winter, 14% higher in the summer
- Arrears struggling:
  - Energy intensity is 50% higher in the winter and 33% in summer than non-arrears in comparison
  - Have a ~160% higher total bill in peak winter months (133% higher in summer) than upper-income households; for LIEAP/CIP customers the bill differential is 100% and ~70% higher, respectively

OFFICIAL COPY
Sep 26 2023

Assessment of Customer Affordability Challenges
Disconnections for non-pay (DNP)

- *Discrepancy in DNP data being examined, assessment to be updated as necessary*
  - Duke Energy data shows 44,412 DNP's for analysis period
  - Actual residential DNP's exceeded 220,000
- Despite having received heating/cooling bill assistance, ~10% of LIEAP/CIP recipients experienced a DNP
- Low-income households 3x more likely to experience a DNP (than non-low-income)
- Arrears struggling and LIEAP/CIP recipients 9-10x more likely to experience a DNP
- In general, same categories of customers most likely to meet arrears definition also experience higher-than-average rates of DNP
- Lowest income (<150% FPL, including LIEAP/CIP) and arrears struggling customers experience higher-than-average rates of DNP across all housing, geographic, home value and racial categories

OFFICIAL COPY
Sep 26 2023

Assessment of Customer Affordability Challenges

Racial disparities in arrears and disconnects for non-pay

- Racial disparities clearly exist but reasons are unexplained by the present analysis
- Duke Energy applies NC Rule 12-11 consistently, regardless of racial status
- Racial makeup customer households
  - 72% White
  - 11% African American
  - 5% Hispanic
  - 2% Asian
- Percent of racial category that are low-income
  - 25% of White-identified households
  - 40% of African-American
  - 36% of Hispanic
  - 17% of Asian
- Percent of all customers in racial category that meet arrears definition
  - 12% of White-identified households
  - 32% of African-American
  - 17% of Hispanic
  - 5% of Asian
- Percent of all customers in racial category that experienced a DNP
  - 1.3% of White-identified households
  - 4.1% of African-American
  - 2.6% of Hispanic
  - 0.5% of Asian

African-American households experience these outcomes despite using less energy and having only a slightly higher energy intensity than White households. Hispanic households use more energy and have a greater energy intensity.

OFFICIAL COPY
Sep 26 2023

Assessment of Customer Affordability Challenges

Income does not explain racial disparities

Ratio of AFRICAN AMERICAN percentages (likelihood) of arrears and DNP's to other categories

Race	Low-Income	Arrears	DNP
Asian	2.3	6.5	8.4
Hispanic	1.1	1.9	1.6
White	1.6	2.6	3.1

Ratio of HISPANIC percentages (likelihood) of arrears and DNP's to other categories

Race	Low-Income	Arrears	DNP
Asian	2.1	3.4	5.3
African American	0.9	0.5	0.6
White	1.4	1.4	2.0

OFFICIAL COPY
Sep 26 2023

LIAC Subteam B

How we stay on our timeline and work in collaboration with the other subteams.

- Standing weekly meeting with the stakeholders of Sub-Team B
- Collaborating with subject matter experts from within the LIAC and Sub-Team A to present relevant information to be investigated.
- Analyzing existing programs and metrics used in North Carolina and across the Nation to assess electric energy affordability for best practices and lessons learned.
  - Energy burden
  - Self sufficiency standard

What comes next?

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

SUB-TEAM B TASKS

October - December

Identify and compile information to be investigated.

Align on questions to be answered.

Identify expert input / opinions needed to support positions (LIAC education)

January - February

Design internal matrix to review compiled information.

Analyze information and data.

February - March

Suggest metrics / definition for “affordability”

Prepare and present suggestions to broader LIAC consideration

OFFICIAL COPY
Sep 26 2023

LIAC Subteam C

Rates & Program

Address Commission questions regarding existing rates, rate design, billing practices, customer assistance programs and energy efficiency programs

3.a-1) Define success criteria to be used for affordability programs

3.a-2) Determine metrics to be used to monitor program impact

3.b/c) Assess existing Duke Energy income-qualified programs *(3 tasks)*

3.d) Develop income-qualified program alternatives *(2 tasks)*

3.e) Assess set of Commission-identified rates and programs *(5 tasks)*

3.f) Determine rate impact implications of assessed programs *(4 tasks)*

3.h-1) Determine what practices and regulatory provisions related to disconnections for nonpayment should be modified or revised

3.i-1) Identify existing utility and external funding sources are available to address affordability

3.i-2) Estimate the level of resources that would be required to serve additional customers

3.j-1) Identify opportunities and challenges of the utilities working with other agencies and organizations to collaborate and coordinate delivery of programs that affect affordability concerns

Subteam Outputs Needed

1) Recommendation regarding existing income-qualified programs
2) Presentation of recommendation to LIAC at large to secure endorsement or input.
3) Demonstration that position regarding appropriateness of Commission-identified rates and programs.
4) Presentation of position to LIAC at large to secure endorsement or input.

Measures of Success

- **LIAC endorsed recommendation on existing programs**
- **LIAC endorsed position on appropriateness of Commission-identified rates/programs**

OFFICIAL COPY
Sep 26 2023

Sub-Team C Mini Working Teams

Roles/ Responsibilities

❑ **MINI SUBTEAM LEADERSHIP**

– Develop clear understanding of mini sub-team tasks/questions and all required outputs and expectations

– Communicate any resource needs and concerns with Co-leads (Detrick and Ken)

– Consider tasks and delivery timelines (factoring in interdependencies of other sub-team outputs)

❑ **MINI SUBTEAM COMMUNICATION**

– Serve as subject matter professional and advising body for mini sub-team

– Ensure relevant and timely communications are disseminated to Co-leads and other sub-team C members

❑ **MINI SUBTEAM PRODUCTIVITY**

– Develop and maintain Mini Sub-team Plan (task list and schedule) – supported by Co-leads

– Develop Mini Sub-team Report outs (communications to greater Sub-team C) – supported by Co-leads

– Track all relevant efforts in Trello (please let us know if you do not have access)

OFFICIAL COPY
Sep 26 2023

What's happened in Sub-Team C

October 2021 - Ken Szymanski + Detrick Clark

SUB-TEAM C MINI WORKING TEAMS										
Investigating the strengths and weaknesses of existing rates, rate design, billing practices, customer assistance programs and energy efficiency programs in addressing affordability.										
Teams	**Team A**	**Team B**	**Team C**	**Team D**	**Team E**	**Team F**	**Team G**	**Team H**	**Team I**	**Team J**
Team Task	a. What defines a "successful program" and what metrics should be monitored and presented to show impact?	b. % of res customers are eligible for each existing program and % of eligible customers take advantage?	c. Impact of existing programs on the energy burden for enrolled customers?	d. Should existing programs be maintained, replaced, or terminated? Changes/replacements to improve results?	e. Are the following programs appropriate for implementation in NC? (please refer to task list link in the welcome letter)	f. How do affordability programs affect cost-causation and allowance of costs among classes?	g. How do cost-of-service allocation affect rate design and affordability of rates?	h. What disconnections for nonpayment practices/regs should be modified or revised?	i. Existing utility and external funding sources available to address affordability? Level of resources required to serve more.	j. Coordination opportunities/ challenges of the utilities working with other organizations to deliver affordability programs?
Team Members	Currently re-examine mini sub-team activities and re-evaluate mini sub-team assignments (*at least 4 members per team*)									

OFFICIAL COPY
Sep 26 2023

What's happened in Sub-Team C

November 2021 – Tim Duff

Duke Energy Low Income Energy Efficiency Offerings in the Carolinas

- Weatherization and Equipment Replacement Program ("WERP")
- Refrigerator Replacement Program ("RRP")
- Neighborhood Energy Saver Program ("NES")
- Low-Income Weatherization Pay for Performance Pilot

Potential Program Expansion and New Pilots

- Expanding Duke Energy Carolinas Weatherization Program to Duke Energy Progress

As Part of the Rate Case Settlement, Duke is working with SACE, NCSEA, NC Justice Center and NRDC to develop Low Income EE Pilots.

3 ideas being considered:

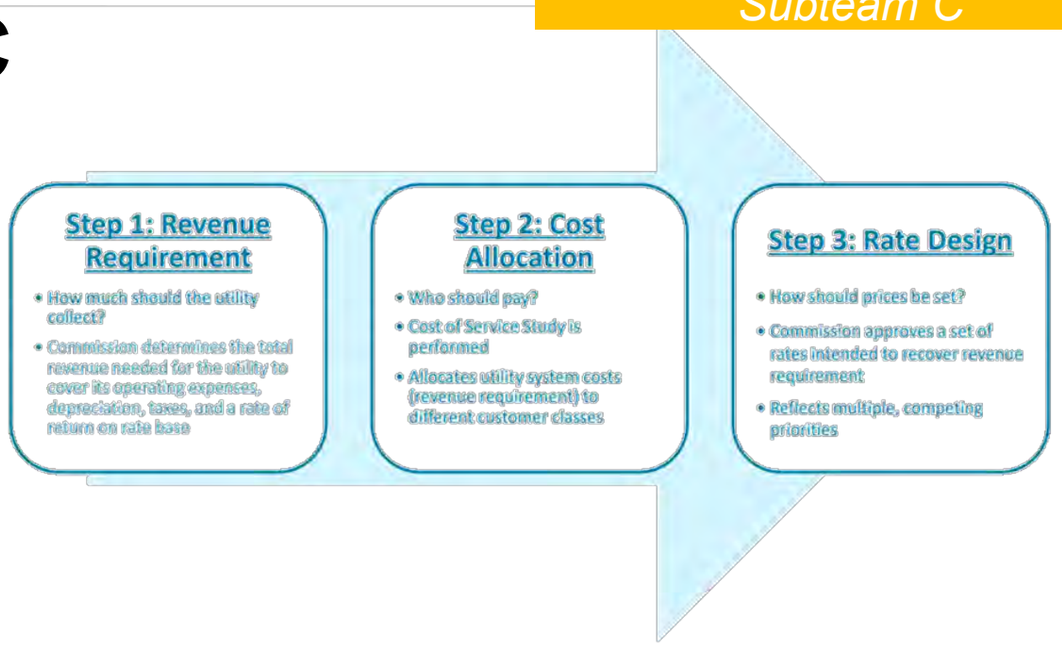
- Energy Burden Pilot (Follows the same model as the Durham pilot)
- Heat Strip Replacement Targets winter peak and high energy intensity in mobile/manufactured homes
- Multifamily Direct Install Expansion Targets low-income multifamily housing (LIHTC, HUD, Section 8)

Areas for Improvement to Targeted EE Offerings

OFFICIAL COPY
Sep 26 2023

What's happened in Sub-Team C

December 2021 – Bradley Harris



Cost of Service 101

- Energy
- Customer
- Demand (Capacity)

Rate Design 101

- Recognize Cost Causation (No Unjust or Undue Discrimination)
- Incent Beneficial Consumption Patterns (Efficient Price Signals)
- Recover Cost to Serve (i.e., recover revenue requirement)
- Meets Public Policy Goals (as determined by the utility commissions and state governments)

Analysis of segmenting the residential rate class

- Theory
- Methodology
- Results from DEP

Analysis of a minimum bill charge as an alterative to a fixed charge

- Very small impact by Income and Arrears Status
- Significant Impact by Usage on Very Low Usage
- A very high minimum bill would be needed to replace the revenue from eliminating the fixed charge

OFFICIAL COPY
Sep 26 2023

What's happened in Sub-Team C

January 2022 – Lisa FaJohn + John Howat

Historical

Established through the 2020 Virginia General Assembly

- Local legislators concerned about the income to home energy cost ratio for low-income constituents
- Created with input from advocates (Virginia Poverty Law Center)
- General outline established
- Details to be set by the managing agency, utilities and advocates
- The SCC ensures the USF is reasonable and accurate.
- Based on Ohio PIPP and modified for VA
- Designed to:
  - Limit the electric utility payments
  - Based upon a percentage of income
  - For customers of DEV and APCo

Objective

- Limits electric bill payments to 10% (electric heat), 6% for (other heat)
- Reduce electric usage through weatherization and energy conservation education
- Establish a non-bypassable Universal Service Fee (USF) to fund PIPP

Process

- Customers apply/screened through the Department of Social Services
  - Eligibility: 150% FPL income
  - Eligible for free weatherization and conservation education
- On-time, in-full payments result in a delta credit and 1/24 credit to the arrears
- Credits along with administrative costs paid through the USF

OFFICIAL COPY
Sep 26 2023

Next Steps for Sub-Team C

Identify Resource Needs/Dependencies

a) Submit official requests to Duke and Guidehouse for all third-party program evaluations, SWOT Analysis, and reports related to Sub-Team C's task
b) Review and disseminate all interconnected info, analysis, and reports from other NC LIAC Sub-Teams to appropriate mini-teams and its members
c) Re-examine mini sub-team activities and re-evaluate mini sub-team assignments
d) Survey sub-team members for special meeting sessions/and the group's availability to meet more frequent

LIAC February Workshop 5 – Thursday, February 3rd (1-4 pm)

Sub-Team C Presenter(s) Include:

Lucy Edmondson and **Jack Floyd** - statutory and regulatory challenges
John Howat - the history of the OH PIPP program
Tim Duff has asked (**Rick Mifflin**) to discuss existing EE programs w/ larger collaborative
Bradley Harris - DEC SSI-based program and other items

OFFICIAL COPY
Sep 26 2023

Next Steps for Sub-Team C Cont'd

Statistical Analysis of Customer Affordability Challenges Working Group (lead by Sub-Team A)

- **Christina Cress**, Partner, Bailey & Dixon, LLP
- **Munashe Magarira**, Staff Attorney, NC Utilities Commission
- ***Ken Szymanski**, Executive Director (retired), Apartment Association of NC
- ***Detrick Clark**, Director of Housing and Energy Programs, NC Community Action Association

Future Subteam C presentations and activities include, but are not limited to the following:

Topic: **Ohio PIPP Overview** (planning in progress)
Presenter(s): **Brandy Kolattukudy**, Ohio Deputy Chief of the Office of Division Support
John Starver, Executive Director for Ohio Partners for Affordable Energy

Topic: **DECWX and HHF Weatherization Program Overview** *(tentative)*
Presenter(s): **Deborah Hill**, TRC (formerly Lockheed Martin)

Topic: **Sub-Team C proposal(s)/recommendations for consideration**
Presenter(s): **TBD**

Topic: **Program Design Modeling**
Presenter(s): **John Howat**

**Sub-Team C Co-leads*

North Carolina
Low Income Affordability Collaborative

OFFICIAL COPY
Sep 26 2023

Bringing It Together:

What *didn't* you hear?

INTERACTIVE

BREAK

(Resuming at 11:30 AM)

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Group Discussion & Breakouts

OFFICIAL COPY
Sep 26 2023

Let's Discuss

- What we've heard
- What we've learned

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Let's Breakout!

Consider

- what you have heard today,
- what you have experienced during your Collaborative participation, and
- insights you offer from your *non-Collaborative* lives.

What are the overlaps for our groups?

What are the barriers and potential solutions?

What else should be on our radars?

OFFICIAL COPY
Sep 26 2023

Next Steps

How we stay abreast of and consider the ongoing work of the separate teams

- Designated cross-collaborative liaisons representing the Utility, the Public Staff and community/industry
- Standing agenda item for sharing updates

What comes next?

COLLABORATIVE LIAISONS

EE COLLABORATIVE

Duke Energy – *Tim Duff*
NCUC Public Staff – *Jack Floyd*
Community/Industry – *Claire Williamson*

CRR COLLABORATIVE

Duke Energy – *Bradley Harris*
NCUC Public Staff – *Jack Floyd*
Community/Industry – *Thad Culley*

OFFICIAL COPY
Sep 26 2023

ADJOURN

THANK YOU

all for your participation

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY

Sep 26 2023

Contact

Chip Wood
Partner
chip.wood@guidehouse.com
704.347.7621

Jamie Bond
Associate Director
jamie.bond@guidehouse.com
704.347.7626

Guidehouse

©2021 Guidehouse Inc. All rights reserved. This content is for general information purposes only, and should not be used as a substitute for consultation with professional advisors.

OFFICIAL COPY
Sep 26 2023

Guidehouse

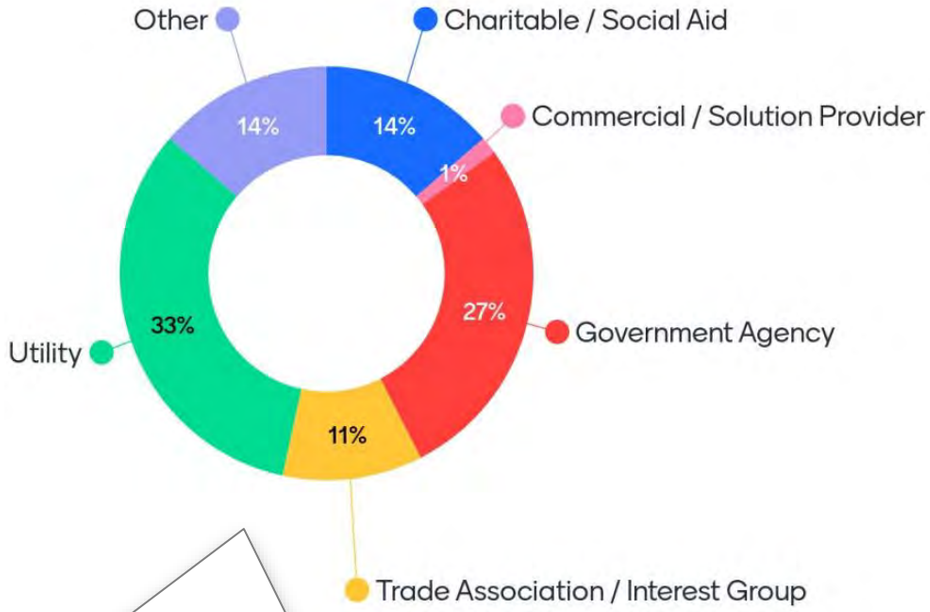
Joint Collaborative Session

Participant Input

OFFICIAL COPY
Sep 26 2023

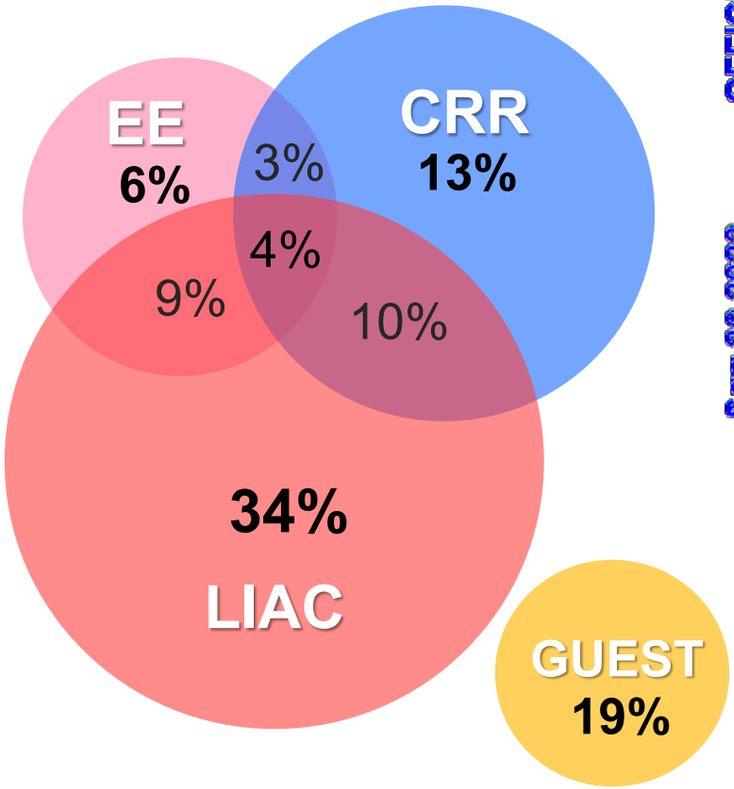
Joint Collaborative Session | January 26, 2022

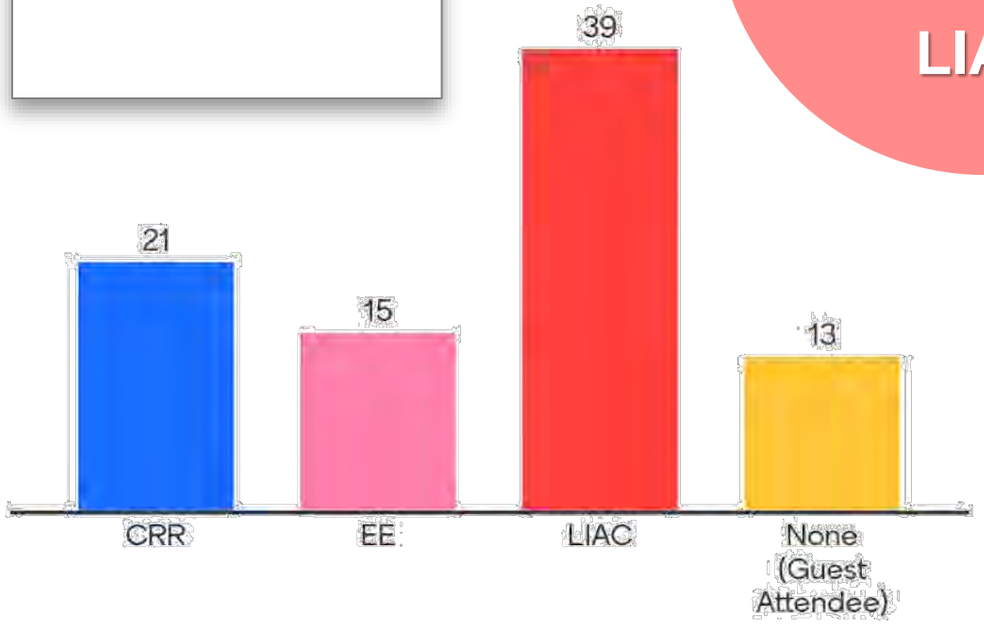
Participants in total: 147



- Sixty percent (60%) self-identified as a *utility* or *government agency* participant
- Some session participants noted that "**non-profit advocacy**" would have been a better description of their organizations

- Representation greatest from host organization (LIAC)





Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

Participant comments related to EE Collaborative discussion

OFFICIAL COPY
Sep 26 2023

DSM/EE

Split incentive issue *is important not only for addressing the rental problem but also from a racial equity standpoint …*

…. rebates for new equipment or value from the property upgrade goes to the property owner, but the energy savings are seen on the renters' bills

… also means the cost of the upgrade goes to the owner and benefit goes to the renter

Non-energy repairs *are an issue for DOE weatherization program funds that go out to each state, and we are working to solve that issue in conjunction with DOE*

CRR

LIAC

Landlords won't invest in EE if the tenant pays the utility bill, because the landlord won't see any payback/savings from the investment …

And they are typically not incentivized to pay for expensive improvements, even if the landlord does pay the bill, especially if they are competing in a high-demand rental market

We trying decarbonize by 2050, and many homes/multi-family dwellings are being built between now and then.

Is there a way to get at [decarbonization] through building codes for low income housing or through requiring basic EE for any landlords participating in a HUD type program?

OFFICIAL COPY
Sep 26 2023

Areas of Greatest Cross Collaborative Impact

Respondents indicated that the greatest impact the collaboratives could have would come from **activities that drive greater transparency**:

1) Timely sharing of data insights with one another.
2) Timely sharing of gaps identified with one another

Participant comments related to CRR Collaborative discussion

OFFICIAL COPY
Sep 26 2023

DSM/EE

Are marginal costs less than embedded costs? And does the marginal cost time window go long enough to capture capital costs for replacement of current generators?

*Why would there not be a **mid-day discount rate** during summer months?*

Air conditioning load to counteract solar

***Low-income customers pay more** than the cost they (and their energy usage/demand) impose on the system …. they don't necessarily pay more in in rates on average*

CRR

During spring and fall, aren't their nuclear or other baseload plants down for planned maintenance, so that the marginal energy cost is gas, even with the solar?

i.e., sometimes you are paying fairly high gas power prices then because of the need to replace baseload that is down

I'd be curious to know what the aggregated dollar value is for how much low-income customers are subsidizing non low-income customers each year.

Could add rate design leads to lower costs

LIAC

Embedded costs are averaged over the whole year. This perspective can obscure what's happening in certain specific customer segments.

There is much debate about the notion of public interest and the objectives of regulation ..

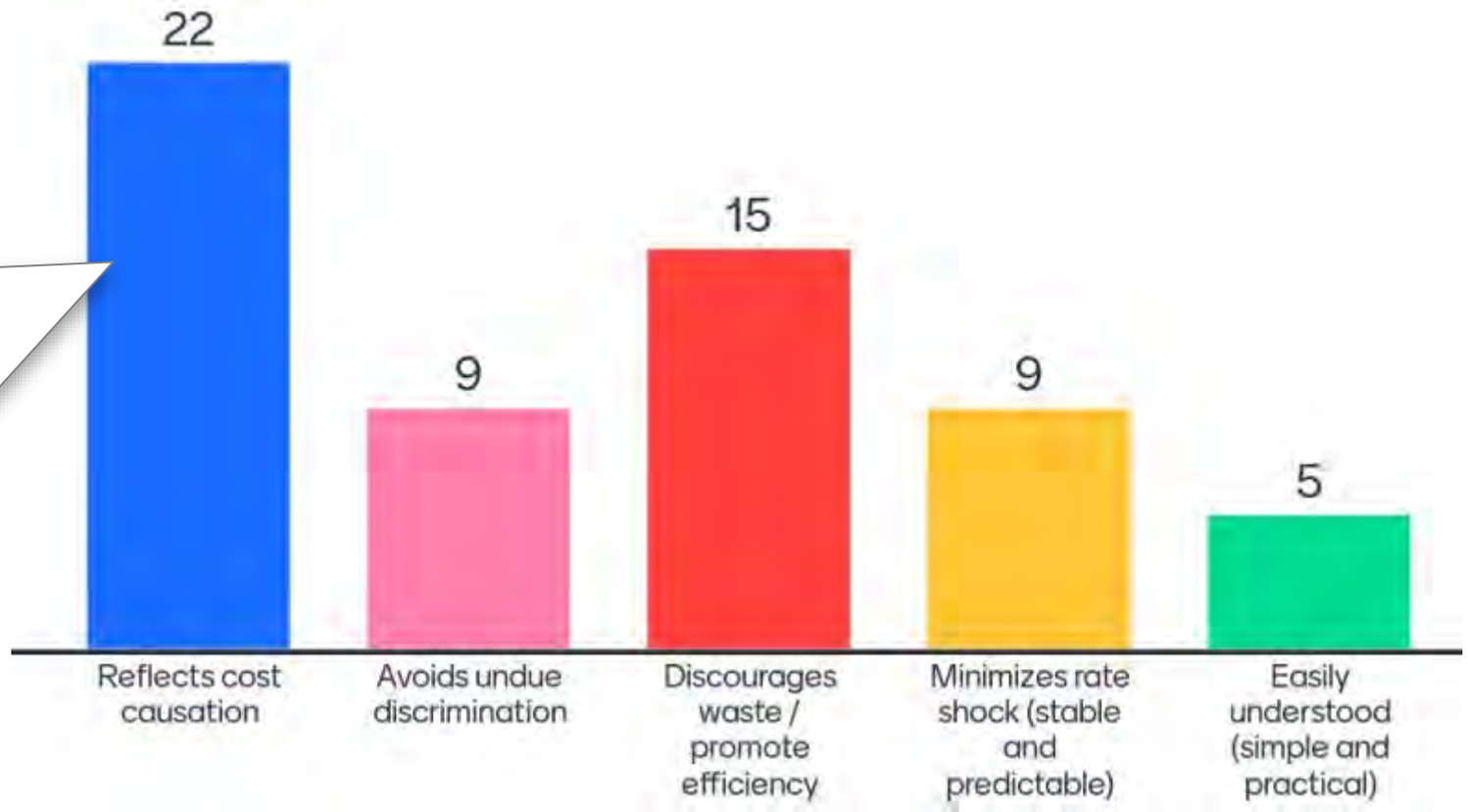
Not saying to throw Bonbright out the window, just that there appears to be lots of interest in debate over principles outline in his treatise

OFFICIAL COPY
Sep 26 2023

Most Important Principles of the Competing Priorities

Respondents indicated ***reflecting cost causation*** as the most important of the Bonbright Principles

Session participants raised additional principles – e.g., supporting public interest,



** Note that one-third of poll participants self-identified as utility employees*

Participant comments related to CRR Collaborative discussion

OFFICIAL COPY
Sep 26 2023

DSM/EE

For LIAC work, "Energy Intensity" is specifically looking at electricity, rather than including gas and propane.

CRR

Statistical analysis is necessary for understanding WHY we are seeing the outcomes we're seeing so that we can propose/design appropriate solutions

Curious how much of the arears disparity is explained by the degree to which these various customer groups have electric heat.

Those with gas heat may be in arrears on their gas bills which wouldn't be reflected in the Customer Challenges data.

LIAC

Beyond the Customer Challenges Assessment, the next phase of LIAC work focuses on identifying and proposing solutions.

OFFICIAL COPY
Sep 26 2023

What didn't we discuss? What gaps might we have collectively?

It seems that Tim's slide on Duke's Low-Income Energy Efficiency Study got cut. Maybe there is still a way to share it today? Also wondering what level of penetration Duke's income qualified programs have achieved, compared to total LI population?

I'm going to have to digest this before I can even assess what should have been added or things that could have been left out.

Ideas on how low income families/communities can participate/benefit from electricity transformation to a more clean/connected systemHow future clean energy plan may impact all of this work

How will performance based ratemaking and future multi-year rateplans be integrated with affordability concerns?

Hind sight is 20-20, but in retrospect, in addition to income, I wish we'd carved out time to conduct analysis of household wealth to enhance our collective understanding of home energy affordability and access challenges.

Utility payment plan offerings

Because low income homes are more likely to have electric heat and electric hot water, this is a confounding variable that must be taken into account in both the analysis of low-income AND of whether customers are "overpaying" in net metering or oth

Path Forward for Renters - getting over the hump of the split incentive

Is there a way to incentizes multi-family residential owners to make energy improvements (LL pays energy bills), but also incentivizes energy efficiency by tenants if tenants can be charged for cost overages?

Fixed fees are an immovable part of a customer's bill that have an impact on costs/affordability.

I need some more time to sit down and reflect on what I've heard today. What I heard today was helpful and will inform my work going forward

time for current programs to serve the need. meaning at the current rate of program delivery it will take x years for all low income customers to be served

Fuel source and fuel switching. Split incentive. Urban/Rural metric and data differences. Multi-family vs. single family.

I may have missed it, but information on the penetration of current energy efficiency programs would be helpful. *Specifically* penetration of programs with deep retrofit measures that would yield high savings for each customer.

We did not address fixed charges (basic facilities charge) in rate design & how they have been informed by Duke's reliance on the minimum system method in its cost of service study. Keeping those low is important for affordability & efficiency

arrerage management programs

Given that low-income households have been subsidizing other households for some time, should future rate design take this into consideration - not just reduce, but reverse the subsidies?

Breakout Summary – Collaborative Intersections

OFFICIAL COPY
Sep 26 2023

Where can EE/LIAC work together (areas of overlap)?

Programs & Measures

- Low-income pilots
- Low-cost, cost-effective measures
- Funding for Non-Emergency Repairs (Weatherization)
- DEP Weatherization Program
- Large household energy costs - how to change that perspective and spread out costs

Data & Information

- Data Sharing Platform where organizations don't duplicate efforts and can prioritize investments
- Providing data from LIAC assessment and other efforts that can inform future low-income pilots
- Information about the most effective LI programs, measures, cost-effectiveness challenges, how to serve the most people the most effectively
- Penetration of EE programs especially deep retrofit programs which would have big impact on customer bills
- Penetration of Duke EE programs compared to the low income EE population

Outreach & Education

- Combine EE with any low-income program recommended (teaching/changing behavior - voluntary measure)
- Education strategies for low-income customers on when/how to save energy (iPhone plugged in, when to run dishwashers)
- Talking to individuals about why/how this is important

Where can CRR/LIAC work together (areas of overlap)?

Customer Offerings

- Percentage of Income Payment Plan (PIPP) and other low-income rate designs - they really sit on top of base rate designs. "low income offering"
- Low-income customer participation in Shared Solar offering
- Fixed fees

Rate Design Considerations

- Cross-subsidization
- Evaluation of past subsidization
- Use of shadow billing for different rate tariffs
- Understanding the impacts of multi-year rate plan (PBR) on LIAC recommendations
- TOU Load Shifting discount times (implications for low-income customers)
- Application of Bonbright Principles
- Self-explanatory rate design principles like "use less, pay less“
- “Rate design" distinct from "low income offering“
- Consistent eligibility requirement for all departments (rates/EE - components of a bill)
- Do we have a "fair and firm" income requirement or do we design in flexibility to enable It can shift depending on needs (e.g., raising LI EE program eligibility up to 200% the federal poverty level)
- Low-income offerings complex to model (ex. PIPP) - takes a long time

Breakout Summary – Challenges & Gaps

OFFICIAL COPY
Sep 26 2023

Customer Challenges

- Customers balancing paying their electric bill with other needs
- Total magnitude of cost per house
- Poor housing quality leading to low efficiency
- Prequalifying conditions of home as barriers to participation (e.g., hole in roof)
- Customers in crisis - have to apply for many assistance opportunities
- Seniors on Fixed income limited in ability to invest in EE measures
- Energy affordability / high energy burden experiences may be very different – "one size fits all" approach is hard

Outreach & Education Needs

- Lack of general education, e.g., how to use less energy, what programs available, how to apply
- Lack of free time (overwhelming times); need to make it easy and quick
- No "one stop" for people applying for aid, services, assistance, etc.
- Reaching hard to reach customers (e.g., rural or remote customers, customers who are already receiving education on many different programs, etc.)
- Earning customer trust in utility programs
- Fear (scams) for those coming into homes to support vulnerable communities
- Ways to help customers ensuring legitimacy of offers

Data & Information Needs

- Understanding program enrollment process and existing program participation
- More data on manufactured homes and multifamily related to EE

Program Design Considerations

- Automatic Enrollment based on work supports/gov't assistance
- Understanding human behavior on EE and payments
- Energy burdened low energy use customers not currently being addressed by EE
- Multifamily and tenant sharing energy reductions/investments
- Utility process needed for interaction w/customers who apply for programs as barriers to participation (e.g., hole in roof)
- Utility Cost Test (UCT); evaluation of program effectiveness and value for customers
- Program administration barriers for utility and state; Limitations to WAP or other government funding impacting ability to service homes
- Supporting improvements for both gas and electric when limited to only electric KWH reduction for cost recovery
- Determining appropriate EE funding from the EE Rider given lack of cost effectiveness
- PIPP Payment Behavior and success rate
- Multi-year rate plan complicating our proposed solutions
- Balancing carbon reduction with affordability

Cost & Resource Considerations

- Utility administration cost for programs
- Cost of serving the LI population scale of need
- High cost to reduce energy usage vs energy cost savings
- Utility cost recovery for new programs
- Securing a reliable funding stream to pay for something like a PIPP or discount rate
- Ensuring program longevity and funding streams
- Supply chain issues and increased cost of EE improvements
- Workforce constraints (COVID)

OFFICIAL COPY
Sep 26 2023

Breakout Summary – Changes and Solutions

Offerings

- Offer high usage alerts (note: Duke already provides)
- Offer a collection of programs (EE, Rates, Policies, etc.) to better serve customers
- Consider longer term solution similar to helping home funds to help with home improvements (health and safety)
- Have other avenues such as midstream program, renter payment program, on-bill program
- Create data driven solutions

Program Administration & Tools

- Implement a "one stop" for applying for assistance and services
- Create "hotline" for customers to call and ask about their bill and programs
- Create Data Sharing Platform where organizations don't duplicate efforts and can prioritize investments; households could be referred to other programs like health and safety and then be referred back to a WAP
- Train service providers to give easy consistent information and guidance
- Leverage auto enrollment - auto enrolled based on services (ex. automating food stamps, medicaid, etc. - if you apply for one of those, the application is auto-populated for other programs

Engagement

- Focus on Simplicity - easy to understand, apply
- Collaborate with community stakeholders to help address lack of trust/legitimacy/scams
- Coordinate with service agencies to qualify customers
- Enlist existing participants for helping walk new/potential participants through the process

Other

- Ensure larger properties stay affordable - landlords who own 1-5 vs large developers (tangible improvements vs "making it look nice")Create "hotline" for customers to call and ask about their bill and programs
- Seek governmental intervention to compel landlords participate in EE measures for their renters ("you have to make your properties energy efficient")
- Utility should weigh in on improving housing / building code
- Seek non-ratepayer funding for health, safety, and incidental repairs

OFFICIAL COPY

Sep 26 2023

APPENDIX G – LIAC

LIAC PROPOSALS

DOCKET NOS. E-7, SUB 1213; E-7, SUB 1214; E-7, SUB 1187; E-2, SUB 1219 AND E-2, SUB 1193

OFFICIAL COPY

Sep 26 2023

North Carolina
Low Income Affordability Collaborative

NC LIAC Proposal Assessment Results

July 7th, 2022

Convened by

DUKE ENERGY®

Public Staff
North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Table of LIAC Proposals

Proposal 01 – Closing the EE Spending and Savings Gap 4
Assessment Results 4
Breakdown of Results: 4
Comments from Assessment 5
Program Proposal Information: 6
Proposal 02 – DEP Income Qualified Weatherization 8
Assessment Results 8
Breakdown of Results: 8
Comments from Assessment: 9
Program Proposal Information: 9
Proposal 03 – Income Qualified High Energy Use 11
Assessment Results: 11
Breakdown of Results: 11
Comments from Assessment 12
Program Proposal Information: 12
Proposal 04 – Residential ER and HHP Water Heater Rental 15
Assessment Results: 15
Breakdown of Results: 15
Comments from Assessment: 16
Program Proposal Information: 16
Proposal 05 – Manuf. Homes EE Retrofit and Replacement 18
Assessment Results: 18
Breakdown of Results: 18
Comments from Assessment: 19
Program Proposal Information: 19
Proposal 06 – Arrearage Management pilot EE 21
Assessment Results: 21
Breakdown of Results: 21
Comments from Assessment: 22
Program Proposal Information: 22
Proposal 07 – Low Income Carve-out from Market EE 24
Assessment Results: 24
Breakdown of Results: 24

OFFICIAL COPY
Sep 26 2023

Comments from Assessment: 25
Program Proposal Information: 25
~~Proposal 08 - Comprehensive Affordable Multifamily EE~~ (see P23) 27
~~Proposal 09 - Comprehensive Tiered Discount Bill Pay Assist~~ (see P24) 28
Proposal 10 - Comprehensive Definition of Affordability and Develop Metrics and Methodologies for Assessing and Monitoring the Relative Affordability of Electric Service 29
Assessment Results: 29
Breakdown of Results: 29
Comments from Assessment: 30
Program Proposal Information: 30
Proposal 11 - Prioritized Marketing and Distribution LI Funds 33
Assessment Results: 33
Breakdown of Results: 33
Comments from Assessment: 34
Program Proposal Information: 34
Proposal 12 - Required Credit and Collections Data Reporting 36
Assessment Results: 36
Breakdown of Results: 36
Comments from Assessment: 37
Program Proposal Information: 37
Proposal 13 - Minimum Bill Pilot Program 39
Assessment Results: 39
Breakdown of Results: 39
Comments from Assessment: 40
Program Proposal Information: 40
Proposal 14 - Voluntary Wx, EE, UR Partnership Forum 42
Assessment Results: 42
Breakdown of Results: 42
Comments from Assessment: 43
Program Proposal Information: 43
Proposal 15 - Duke Energy Winter Moratorium 45
Assessment Results: 45
Breakdown of Results: 45
Comments from Assessment: 46
Program Proposal Information: 46

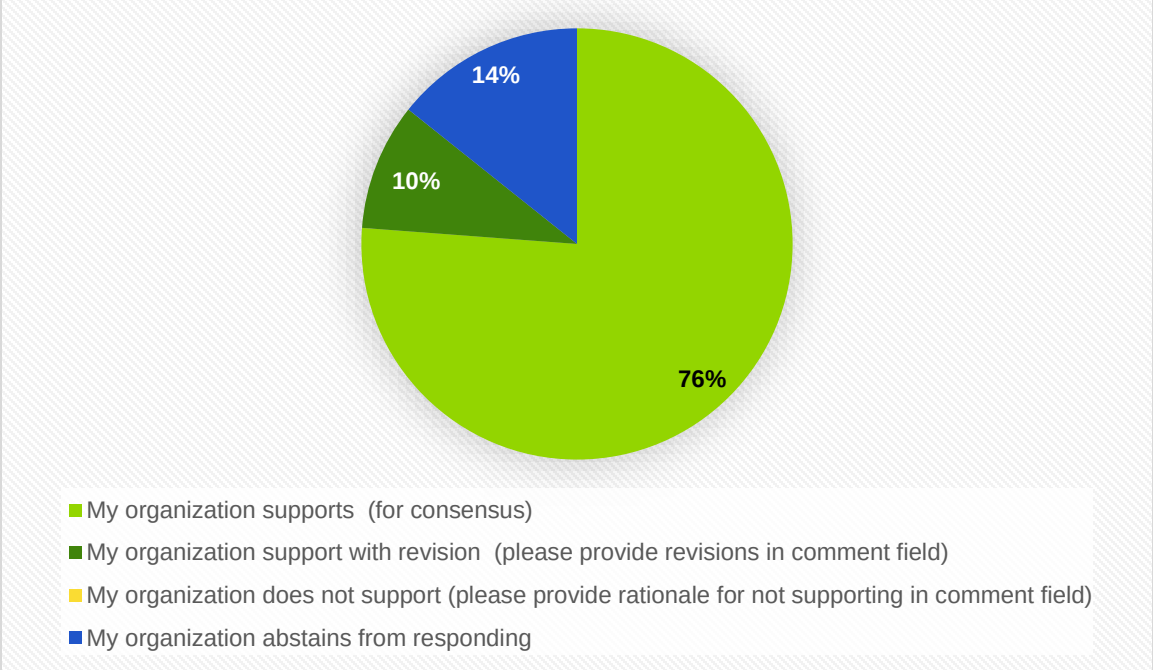
OFFICIAL COPY
Sep 26 2023

Proposal 16 - Re-examine Regulatory Consumer Protection 48
Assessment Results: 48
Breakdown of Results: 48
Comments from Assessment: 49
Program Proposal Information: 49
~~Proposal 17 - Help My House Model~~ (Redirected to Tariff Working Group) 51
~~Proposal 18 - Smart $aver Low Income Multi-Family Retrofit~~ (see P23) 53
Proposal 19 - NC Healthy Homes Initiative 55
Assessment Results: 55
Breakdown of Results: 55
Comments from Assessment: 56
Program Proposal Information: 57
Proposal 20 - DEP Weatherization Program 63
Assessment Results: 63
Breakdown of Results: 63
Comments from Assessment: 64
Program Proposal Information: 65
Proposal 21 - NC Low-Income Energy Major Home Repair 70
Assessment Results: 70
Breakdown of Results: 70
Comments from Assessment: 71
Program Proposal Information: 72
~~Proposal 22 - Customer Affordability Program~~ (see P24) 76
Proposal 23 - Smart $aver Low Income Multi-Family Retrofit (P08 + P18) 79
Assessment Results: 79
Breakdown of Results: 79
Comments from Assessment: 80
Program Proposal Information: 81
Proposal 24 - Customer Affordability Program “CAP” (P09 + P22) 83
Assessment Results: 83
Breakdown of Results: 83
Comments from Assessment: 84
Program Proposal Information: 85
Appendix 88
Responding Organizations (21 Total) 88

OFFICIAL COPY
Sep 26 2023

Proposal 01 – Closing the EE Spending and Savings Gap

Assessment Results



Breakdown of Results:

Supports:

- AARP
- Appalachian Voices
- Crisis Assistance Ministry
- Dominion
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Rowan Helping Ministries
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

OFFICIAL COPY
Sep 26 2023

Supports with Revision:

- Duke Energy
- Public Staff of the North Carolina Utilities Commission

Does not Support:

- None

Abstains:

- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Nicholas Institute (Duke University)
- North Carolina Community Action Association

Comments from Assessment

"The reasons for the gap in spending should be studied and understood. There are historical differences between DEC and DEP. For instance, DEP has more Tier 1 counties compared to DEC. Additionally, pre-merger, DEP and DEC each had its own portfolio of DSM/EE programs, and there were many differences between the two portfolios. Over time post-merger, many of the programs of the two companies have been modified to be identical; however, these historical differences may account for the gap to some extent. Once the differences are understood then DEP may better target customers of need and mindfully deploy EE programs based on actual identified customer groups. The following general note should be considered included in Public Staff responses to all proposals.

The Public Staff has reviewed each of these proposals in isolation without any projections of costs, benefits, cost-effectiveness, participation, etc. Only with this and other pertinent information could the Public Staff make a final determination as to whether it supports or does not support a proposal. The Public Staff would also have to consider the cost and rate impact of all programs or proposals to be implemented at the same time before making a final determination as to its position. This statement applies to each proposal." **– Public Staff of the North Carolina Utilities Commission**

"Duke Energy strives to offer programs that reasonably similar between the jurisdictions and apply learnings before expanding programs to the other jurisdiction, which is why it is filing the DEP Weatherization Program with the NCUC the week on June 7th. The addition of the Weatherization Program in DEP will immediately increase the DE Program spend and reduce the current gap in spending. However, the jurisdictional make-up of the DEC and DEP territories is different, so it's unlikely that the low-income program spend, and energy saving will be consistently proportionate. Fundamentally, qualified customers will be the key to driving program demand and participation for each jurisdiction. Customer engagement levels difficult to predict and often changes over time as the marketplace conditions change. Duke Energy will make reasonable efforts to engage, educate and encourage participation low-income energy efficiency programs for eligible customers in both jurisdictions.

The weatherization programs are dependent upon the agencies working in each territory. State and federal determine the foundational funding provided for each agency to and perform

OFFICIAL COPY
Sep 26 2023

weatherization services for their assigned area of responsibility. The amount of funding provided is determined by the low-income need for each agency and the past performance in providing services for eligible applicants. The amount of funding provided to each agency or non-profit entity can vary substantially at the individual and aggregate level, so not always an apple to apples comparison.

In addition, the city v. rural make up of the DEC v. DEP territories is quite different and can impact the low-income opportunity for Duke Energy served customers and how applicants are prioritized for low-income services by the local agencies. Other influencing factors include, but are not limited to:

- *The age, type and condition of the housing stock occupied by income qualified customers*
- *Health and Safety issues are customer specific which vary widely by the number and cost of improvements required to serve weatherization applicants*
- *Prioritization of applicants is conducted by the agencies using a specific scoring protocol required by the governmental funding sources*
- *Willingness and capability of each agency to incorporate Duke Energy incentives into the program funding structure*
- *Waitlist of applicants can impact which customers can be served, when they can be served and if they are served at all*
- *Not all customer deemed to be income qualified want or need to participate in the programs, so a straight-line correlation to participation may not be accurate*

It is Duke Energy's intention and aspiration to serve as many qualified customers as possible through low-income energy efficiency programs, but a singular territory comparison of program spending and energy savings rarely tells the whole story of how well customers in need are being helped." **– Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Closing the income-qualified energy efficiency program spending and savings gap between DEP and DEC

Program Description: Proportionately, Duke Energy Carolinas has historically spent and delivered more efficiency savings than Duke Energy Progress. This recommendation is for DEP to increase its spending and savings to close this gap.

Program Objective: Increase the level of DEP low-income customer participation and energy / bill savings.

Target Participants: Customers who meet the income-qualified criteria for Duke's low-income energy efficiency programs.

Program Administration: DEP

OFFICIAL COPY
Sep 26 2023

Eligibility Criteria: Customers who meet the income-qualified criteria for Duke's low-income energy efficiency programs.

Success Metrics: Increase the level of DEP low-income customer participation and energy / bill savings.

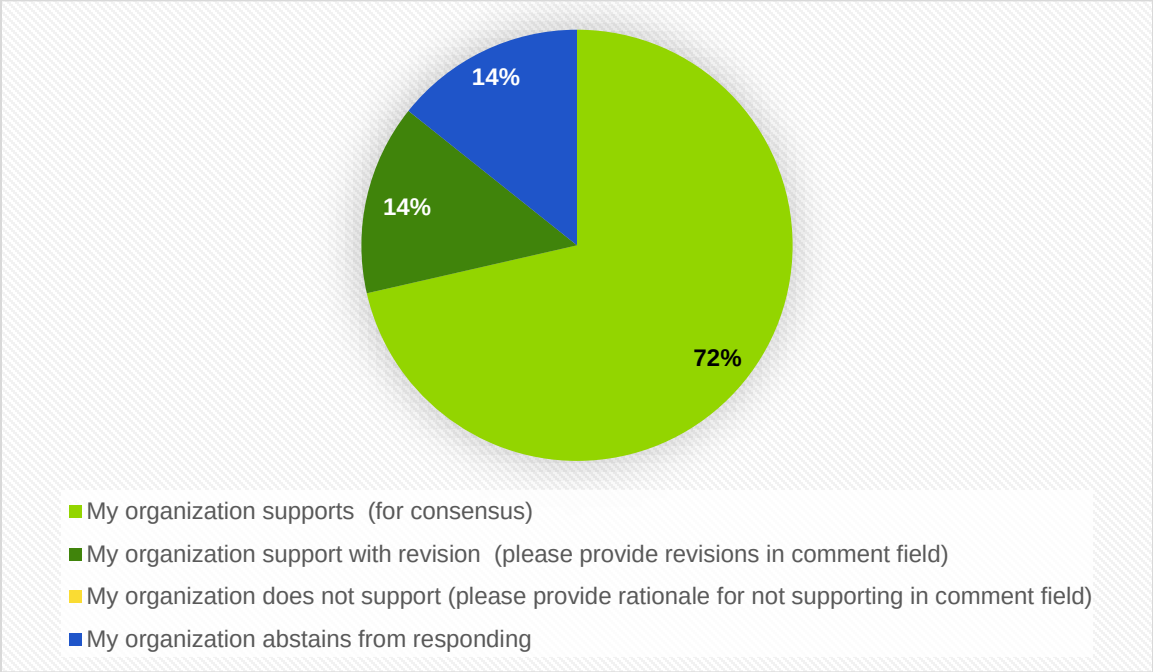
Program Partners: N/A

Additional Information: For more information contact Forest Bradley-Wright (504) 208-7597 forest@cleanenergy.org

OFFICIAL COPY
Sep 26 2023

Proposal 02 – DEP Income Qualified Weatherization

Assessment Results



Breakdown of Results:

Supports:

- Appalachian Voices
- Crisis Assistance Ministry
- Dominion
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Rowan Helping Ministries
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

Supports with Revision:

- AARP

OFFICIAL COPY
Sep 26 2023

- Duke Energy
- Public Staff of the North Carolina Utilities Commission

Does not Support:

- None

Abstains:

- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Nicholas Institute (Duke University)
- North Carolina Community Action Association

Comments from Assessment:

"AARP looks forward to learning more about the specific ways in which this program would lower the cost barrier to energy efficiency retrofits in low-income households, and information about the cost and savings for low-income households that participate in this and other energy efficiency programs. AARP supports cost-effective measures to promote clean energy that yield affordable energy, AARP supports energy efficiency and weatherization programs including for low income customers. We urge that DOE and Federal infrastructure funds be used first to fund such a program." – **AARP**

"Only non-ratepayer funds should be utilized for health and safety work." - **Public Staff of the North Carolina Utilities Commission**

"The Company plans to file the DEP Income Weatherization Program with the NCUC within the next two weeks." – **Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Duke Energy Progress Income Qualified Weatherization Program

Program Description: Modeled off of the Duke Energy Carolinas program of the same name, the DEP IQ Wx program will incorporate the ability for Duke to fund the entire project cost for EE improvements with flexibility for in per-home spending levels (up to $10,000) comparable to the 2019 Durham Pilot. Total program spending levels will at least match those on a per residential customer basis as the DEC program.

Program Objective: Deep energy efficiency retrofits to low-income households.

Target Participants: Customers who meet the LIAC definition of low-income including, but not limited to, customers served by Weatherization Assistance Program administrators.

Program Administration: Duke Energy Progress

Eligibility Criteria: Customers who meet the LIAC definition of low-income including, but not limited to, customers served by Weatherization Assistance Program administrators.

OFFICIAL COPY

Sep 26 2023

Success Metrics: Number of low-income households served, and depth of energy / bill savings for participating customers.

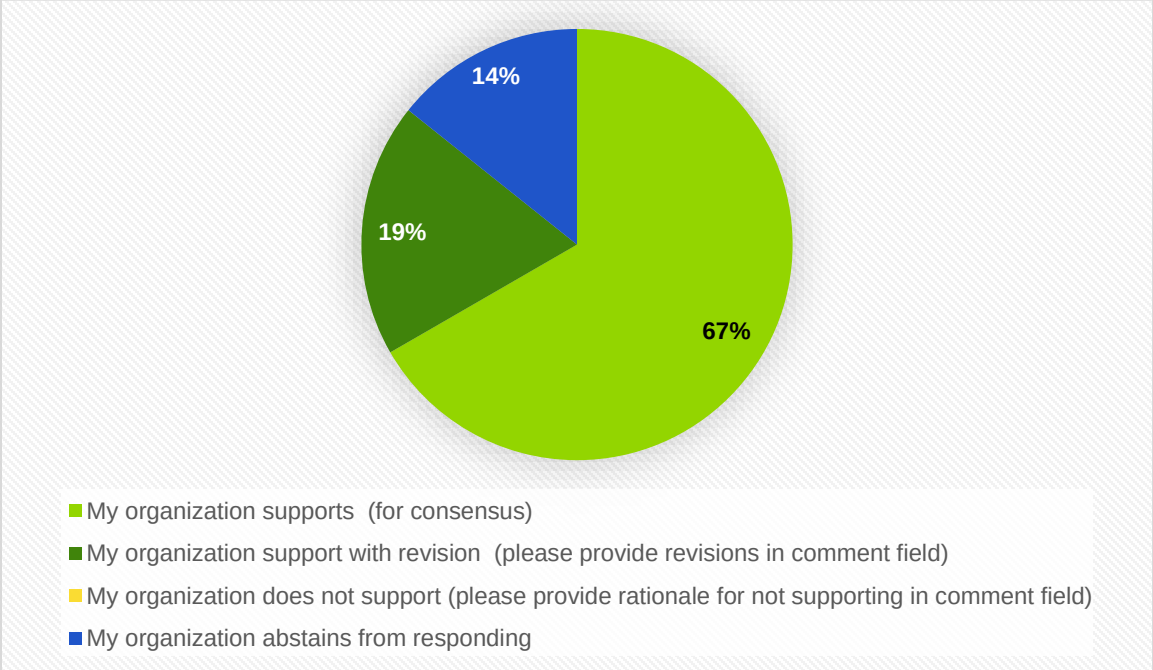
Program Partners: WAP program implementers

Additional Information: For more information contact Forest Bradley-Wright (504) 208-7597 forest@cleanenergy.org

OFFICIAL COPY
Sep 26 2023

Proposal 03 – Income Qualified High Energy Use

Assessment Results:



Breakdown of Results:

Supports:

- Appalachian Voices
- Crisis Assistance Ministry
- Dominion
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

Supports with Revision:

- AARP
- Duke Energy
- Public Staff of the North Carolina Utilities Commission
- Rowan Helping Ministries

OFFICIAL COPY
Sep 26 2023

Does not Support:

- None

Abstains:

- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Nicholas Institute (Duke University)
- North Carolina Community Action Association

Comments from Assessment:

"AARP supports energy efficiency programs including for low income customers. We urge that DOE and Federal infrastructure funds be used first to fund such a program. We think a pilot program might also be a good idea." **– AARP**

"The system impact is greatest by targeting high electric energy consumption customers. Only non-ratepayer funds should be utilized for health and safety work. If ratepayer funds are used for the energy-related portions of the program, any savings claimed by Duke must go through the EM&V process." **– Public Staff of the North Carolina Utilities Commission**

"Must include a component for customer education for maintenance of equipment and practical ideas to reduce energy consumption." **– Rowan Helping Ministries**

"In the statistical analysis, higher winter peak and summer peak usage were associated with a customer being more likely to be in arrears, receive a 24-hour notice, and be disconnected. These results would support reducing high energy use via this pilot and the resulting research could prove valuable." - **Nicholas Institute**

"The Companies support an income qualified high electric use pilot program with plans to file it for NCUC approval in the near future." **– Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Income Qualified High Energy Use

Program Description: This program provides deep energy retrofits at no cost to low-income customers with high energy use. The program will develop processes to incorporate additional funding for health and safety repairs from non-ratepayer sources to serve previously ineligible customers.

OFFICIAL COPY
Sep 26 2023

The program would be based on a proposed pilot program developed by advocates and Duke Energy out of a 2021 rate case settlement agreement and will likely be filed at the NCUC in early Summer 2022. The pilot will serve 1,000 customers in two selected test regions.

The proposed pilot is a first step to developing a full program that addresses the systemic and persistent need of high energy use low-income customers.

Measures included:

- HVAC Replacement
- Comprehensive Air Sealing
- Insulation (Attic and Belly)
- Duct Sealing
- Heat Pump Water Heater
- Refrigerator Replacement with ENERGY STAR model
- Tier 1 Base Load Package (LED bulbs and electric hot water measures)

Research questions of the pilot are:

- Does pairing H&S with EE result in significant savings for LI customers?
- Can work be accomplished in a reasonably cost effective to achieve a 0.5 UCT?
- Are current deemed savings estimates accurate for this segment of high energy using LI customers?
- Does this program result in lower arrearage rates and less energy insecurity for participants?
- Does sufficient 3rdparty funding exist to make this pilot a sustainable program?
- Does this design hold potential for reducing winter peak or for encouraging enrollment in DR?

Program Objective: The objective of the program is to deliver deep energy savings to low-income customers with high energy use. The top 50% of energy users consume at least 17,800 kwh annually.

The findings from the LIAC subgroup A show low-income customers receiving CIP or LIHEAP assistance have on average much higher energy use, and higher energy intensity compared to other customer groups. This high energy use is persistent across all demographics studied including housing type, housing location, arrearage status, heating source, race.

These high energy use customers are often not eligible for existing weatherization services, and thus cannot lower their energy use, because their home is in some state of disrepair. Currently as many as 40% of homes are turned away from state-administered weatherization programs for health and safety reasons. The objective of this program is for Duke Energy to serve an important role identifying and coordinating available health and safety funds from around the state with whole home energy efficiency projects. The data shows high energy use is an enduring trend and if we are to address energy affordability, programs must find a way to incorporate health and safety funds.

OFFICIAL COPY
Sep 26 2023

Target Participants: Low-income single-family customers not served by Weatherization Assistance Program

Program Administration: Duke Energy with a 3rd party program administrator

Eligibility Criteria:

- At or below 200% of Federal Poverty Level
- Enrollment in LIHEAP or similar state/federal
- Top 50% of energy users (minimum 17,800 kwh annually)
- Homeowners and renters

Success Metrics:

- As found energy savings for the customer
- Winter peak reduction
- Cost effectiveness rating – UTC
- Level of 3rd party H&S funding
- Arrearage rates as compared to non-program participants

Program Partners: Local governments with home repair funding

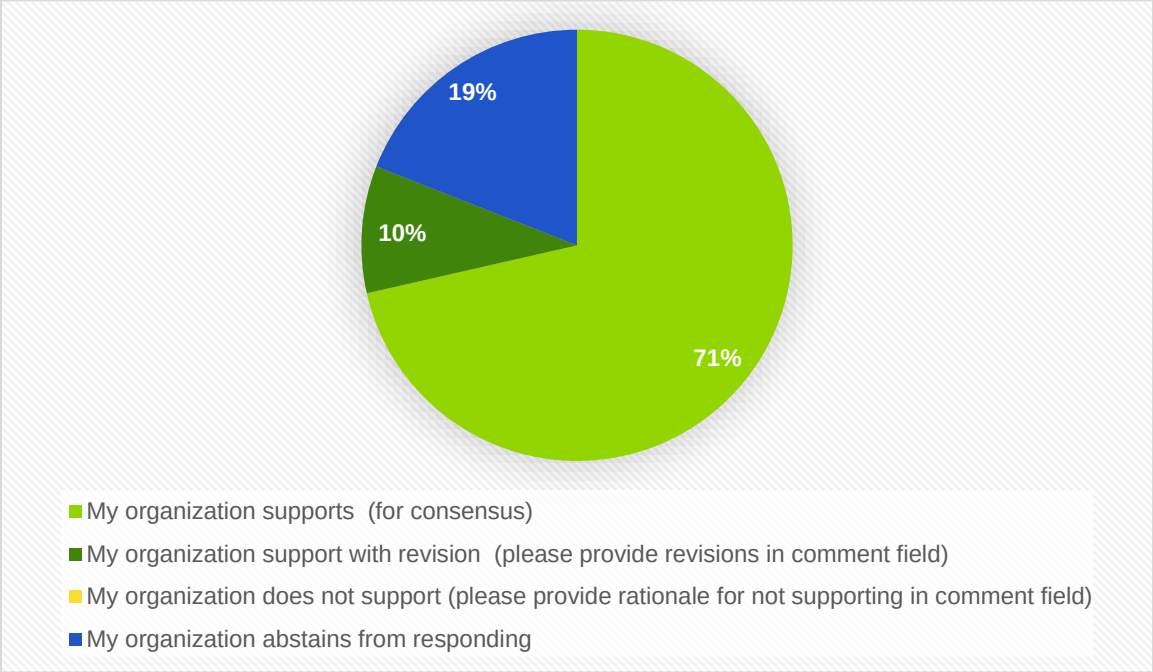
Additional Information: The pilot will be administered by Duke and build on Duke's Income-Qualified Weatherization pilot in Durham. The Durham pilot used a combination of Helping Home Fund and ratepayer dollars to targeted high-energy low-income customers for retrofits. The Durham Pilot lacked rigorous EM&V to adequately determine cost effectiveness for a full-scale program.

For more information contact Claire Williamson (919) 619-0315 claire@ncjustice.org

OFFICIAL COPY
Sep 26 2023

Proposal 04 – Residential ER and HHP Water Heater Rental

Assessment Results:



Breakdown of Results:

Supports:

- Appalachian Voices
- Crisis Assistance Ministry
- Dominion
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Rowan Helping Ministries
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

Supports with Revision:

- Duke Energy

OFFICIAL COPY
Sep 26 2023

- Public Staff of the North Carolina Utilities Commission

Does not Support:

- None

Abstains:

- AARP
- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Nicholas Institute (Duke University)
- North Carolina Community Action Association

Comments from Assessment:

"A waiver of the Commission disconnect rules may be needed to avoid disconnect based on non-payment of non-electric charges. The Public Staff has historically opposed disconnection for non-electric charges. More detail about the rental contracts needs to be provided before it can be determined whether it is appropriate to implement this program through a rental program. It may be more appropriate to implement this measure in a traditional EE program where the customer purchased, owned, and maintained the equipment and then qualified for a credit/discount similar to the Smart Saver program." **- Public Staff of the North Carolina Utilities Commission**

*"The Companies are committed to evaluating a customer owned program offered via an on-tariff financing offer***." – Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Residential Electric Resistance Tank Water Heater (ER) and Hybrid Heat Pump Hybrid Water Heater (HHPWH) Rental Program

Program Description: The Residential Electric Resistance Tank Water Heater (ER) and Hybrid Heat Pump Water Heater (HHPWH) Rental Program is operated by Duke Energy DEP and DEC (Hereinafter Duke) as a service to residential rate payers.

The program will market water heater replacement services to all residential ratepayers. The service will have the following characteristics:

1) Duke will bulk purchase ER and HHPWH units to help lower rental costs to end uses.
2) Duke will incorporate any available rebate program benefits into the service
3) Due to the significant energy savings of HHPWHs, Duke will prioritize, HHPWH where conditions of the installation location allow (i.e.: ambient air requirements, space constraints, wiring, plumbing, and condensation requirements).
4) The service will include qualified plumbers that will identify best options for end users, install units, and service units as needed.

OFFICIAL COPY
Sep 26 2023

5) All units will be DR ready CTA-2045-A compliant and have built in WI-FI components.
6) Duke must develop a comprehensive approach to capturing the load management opportunities provided by HHPWH through a DSM program to utilize all installed units for maximum DSM benefits including thermal storage and time of use dynamics. As appropriate, customer rental costs should be reduced to reflect the DSM benefits. Units should be installed with thermal mixing valves included so that residential users do not experience unreasonable lack of hot water.
7) All participants must allow Duke to utilize thermal storage, time of use, and other DSM characteristics of units.
8) Rental payments will be structured to not exceed the expected lifetime of the units
9) Rental payment amounts will be determined on the basis of installation costs, unit costs, expected average service and maintenance costs, less any applicable DSM rebates used to "buy-down" the rental costs, especially for income-eligible customers. Additional benefits to bring down rental costs should be considered as part of the program for qualified Low-income customers.
10) Service would include installation of pipe insulation, and low-water shower heads and faucets.

*Note that this program could also be structured as part of a Tariff-On-Bill (TOB) program.

Program Objective:

1) Overcome cost barriers to obtaining the most efficient ER and HHPWH units.
2) Maximize EE benefits to the residential customer and to Duke.
3) Maximize DSM benefits including thermal storage to the residential customer and to Duke.
4) Lower residential energy bills through EE and DSM utilization of units.
5) Lower grid impacts through EE and DSM utilization of units

Target Participants: All residential customers would be encouraged to use the service, however, special program designs to help low-income customers utilize the service can be considered. Through large scale adoption, the benefits of bulk purchase, EE, and DSM can be fully leveraged.

Program Administration: Duke Energy with 3rd party administer.

Eligibility Criteria: Aggressively market program benefits for replacement of inefficient existing units and for replacement when existing units fail. Use SMART meter technology and other data screens to target residential users with likely inefficient high intensity water heater units.

Success Metrics: Track energy savings, reduction in electric bills, DSM savings, and water consumption savings.

Program Partners: Partner with ER and HHPWH manufactures and plumbing companies.

Additional Information:

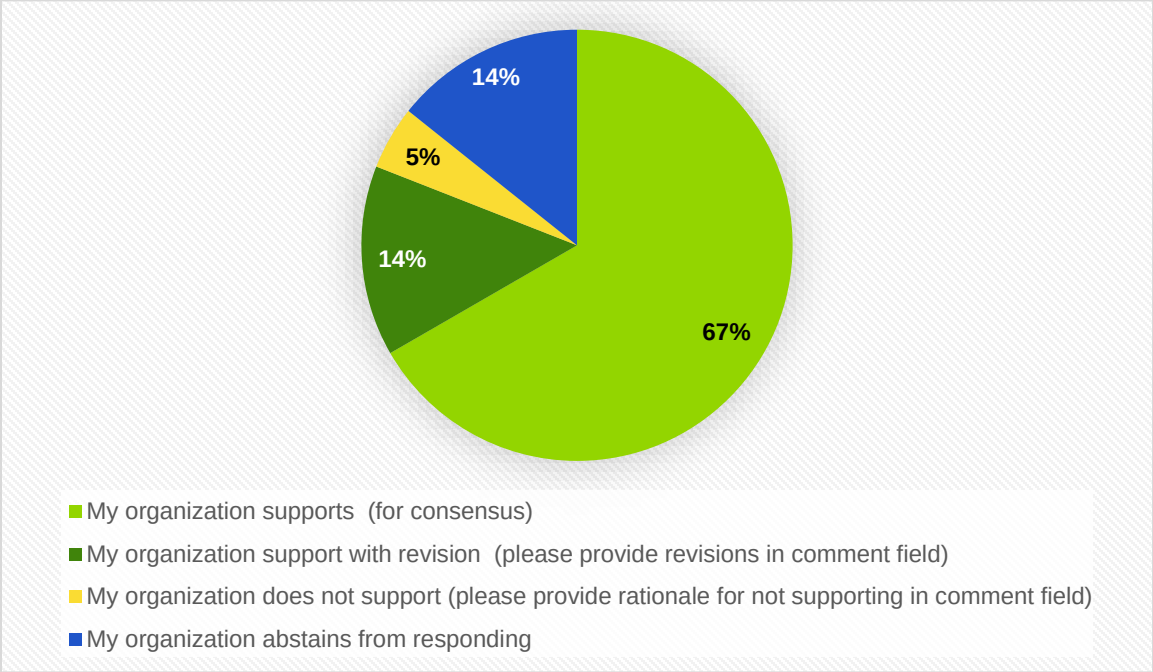
A similar program has been successfully run by Energy NB Power for many years: https://www.nbpower.com/en/products-services/water-heaters

For more information contact Al Ripley (919) 274-8245 al@ncjustice.org

OFFICIAL COPY
Sep 26 2023

Proposal 05 – Manuf. Homes EE Retrofit and Replacement

Assessment Results:



Breakdown of Results:

Supports:

- Appalachian Voices
- Crisis Assistance Ministry
- Dominion
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

Supports with Revision:

- AARP
- Duke Energy

OFFICIAL COPY
Sep 26 2023

- Public Staff of the North Carolina Utilities Commission

Does not Support:

- Rowan Helping Ministries

Abstains:

- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Dominion
- Nicholas Institute (Duke University)

Comments from Assessment:

"AARP in general supports energy efficiency programs including for low income customers. We would appreciate more information on this program." **– AARP**

"It is not appropriate to use of ratepayer funds for replacement of manufactured homes. The program should implement only cost-effective EE measures for low-income customers living in manufactured homes similar to other EE programs." **- Public Staff of the North Carolina Utilities Commission**

"The findings of the statistical analysis support a focus on mobile homes regardless of the tenure of the account holder (owner or renter)." **- Nicholas Institute**

"This seems beyond the scope of the Duke Energies corporate responsibilities. Great idea for another organization to administer." **– Rowan Helping Ministries**

"Yes, the Companies are committed to evaluating this proposal although it may be cost prohibitive." **– Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Manufactured Homes Energy Efficiency Retrofit and Replacement Program

Program Description: Manufactured homes on average use substantially more energy per square foot than other housing types, while residents frequently lack the financial resources to address problems of energy waste. This program aims to overcome barriers to affordability and dramatically increase the efficiency of Duke's manufactured homes through improvements to existing manufactured homes, replacement of the most outdated units, and increasing the overall efficiency performance of new manufactured homes.

Program Objective: Reducing high energy bills, lowering energy burden, and improving health and comfort for residents of manufactured homes.

Target Participants: Manufactured home residents and prospective manufactured home purchasers, with a priority on serving customers that meet LIAC-established low-income and energy burden criteria.

OFFICIAL COPY
Sep 26 2023

Program Administration: Duke Energy Carolinas and Duke Energy Progress would administer these programs (through a third party implementer), enroll participants, validate eligibility, and track progress by contracting regular EM&V, comparable to other energy efficiency programs.

Eligibility Criteria: The program could be targeted only to customers who meet the low-income eligibility criteria established by the LIAC, or such customers could receive a higher level of financial support (e.g., free retrofits and larger discounts for home purchases) than customers non-income qualified customers.

Success Metrics:

a) Number of customers receiving retrofits, b) participant energy / bill savings, c) number of customers acquiring high efficiency units, d) broad-based market transformation for manufactured home sales.

Program Partners: Manufactured home manufacturers and dealerships (to ensure supply availability).

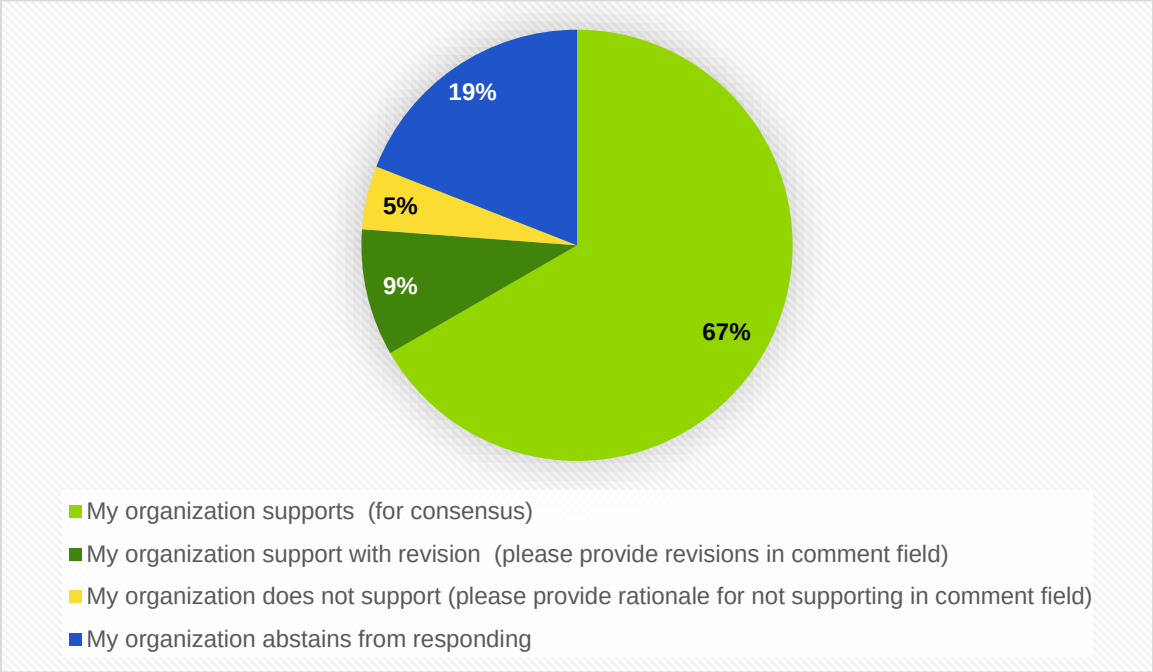
Additional Information: Comparable programs have been successfully implemented in Arkansas, Oregon, TVA, and Vermont. These program concepts have been proposed to Duke through the Energy Efficiency Collaborative and preliminary analysis has been conducted.

For more information contact: Forest Bradley-Wright (504) 208-7597 forest@cleanenergy.org

OFFICIAL COPY
Sep 26 2023

Proposal 06 – Arrearage Management pilot EE

Assessment Results:



Breakdown of Results:

Supports:

- AARP
- Appalachian Voices
- Crisis Assistance Ministry
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

Supports with Revision:

- Public Staff of the North Carolina Utilities Commission
- Rowan Helping Ministries

OFFICIAL COPY
Sep 26 2023

Does not Support:

- Duke Energy

Abstains:

- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Dominion
- Nicholas Institute (Duke University)
- North Carolina Community Action Association

Comments from Assessment:

"It is generally not appropriate to use ratepayer funds for arrearage forgiveness; however non-ratepayer funds could be utilized for arrearage forgiveness. It may be appropriate to use ratepayer funding for arrearage forgiveness to the extent that it is revenue neutral. Duke should analyze the impact to uncollectables and assess the actual administrative costs and late fees. This delta could flow back to offset arrearages/uncollectables. Such an offset would be appropriate for consideration in the next rate case. It is inappropriate for a utility to profit based on ratepayers' inability to pay their bills. Prior to arrearage forgiveness, all other sources of funding should be sought and utilized. Arrearage metrics should be tracked to ensure that no perverse incentive to stop paying bills has been created. Access to arrearage forgiveness should limited (1-5 years)." **- Public Staff of the North Carolina Utilities Commission**

"We are seeing first hand payment arrangements - post moratorium - are not working for our clients. Our clients are making payment arrangements without the ability to pay. Arrangements need to be made soon after an arrearage occurs and payment needs to fit the financial capacity of the customer." **– Rowan Helping Ministries**

"The findings of the statistical analysis how that those with higher than the national average electric burdens were statistically significantly more likely to be in arrears and more likely to be disconnected over time." **- Nicholas Institute**

"The Companies are opening to evaluating an arrears management program in the CAP proposal that is not specific to energy efficiency program participation." **– Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Arrearage Management pilot EE program

Program Description: This program would be intended to link energy burden, energy inefficiency, and arrearage management in a unified, encompassing program offering. Households with limited incomes typically face much higher energy burdens that the general population, and as such may be at much higher risk of not being able to pay utility bills on time – especially when they are higher than they could be due to inefficient structures, HVAC equipment, and appliances. The program assumes that most households that fall behind in

OFFICIAL COPY
Sep 26 2023

paying their bills would pay them if they could. Therefore, to make paying those bills more manageable this program would identify households that have fallen behind in their bills and offer a three-part program that includes the following: 1) installation of energy efficiency measures to reduce forward-going bills, preferably through a comprehensive weatherization approach; 2) a payment plan for affordably repaying a portion of the arrearage, and; 3) if the household adheres to the payment plan, forgiveness of the remaining unpaid arrearage. The program revolves around the creation of a relationship between the utility and participating households that is less focused on collections than on working together to identify a plan to reduce the likelihood of future arrearages.

Program Objective: Working with energy-burdened households to change the cycle of recurring hardship in paying utility bills, which creates hardship for both affected household and the utility and its general customers.

Target Participants: Households who are in arrears, especially when it can be determined that bills could be reduced through energy efficiency.

Program Administration: Given its key role in coordinating repayment plans this should be administered by the utility.

Eligibility Criteria: This would be available to households meeting eligibility requirements for the utility's income-eligible energy efficiency programs who are in arrears.

Success Metrics: This program would track the magnitude of utility bills, success in adhering to payment plans, success in achieving arrearage forgiveness, ability of households to stay current with bills after participation.

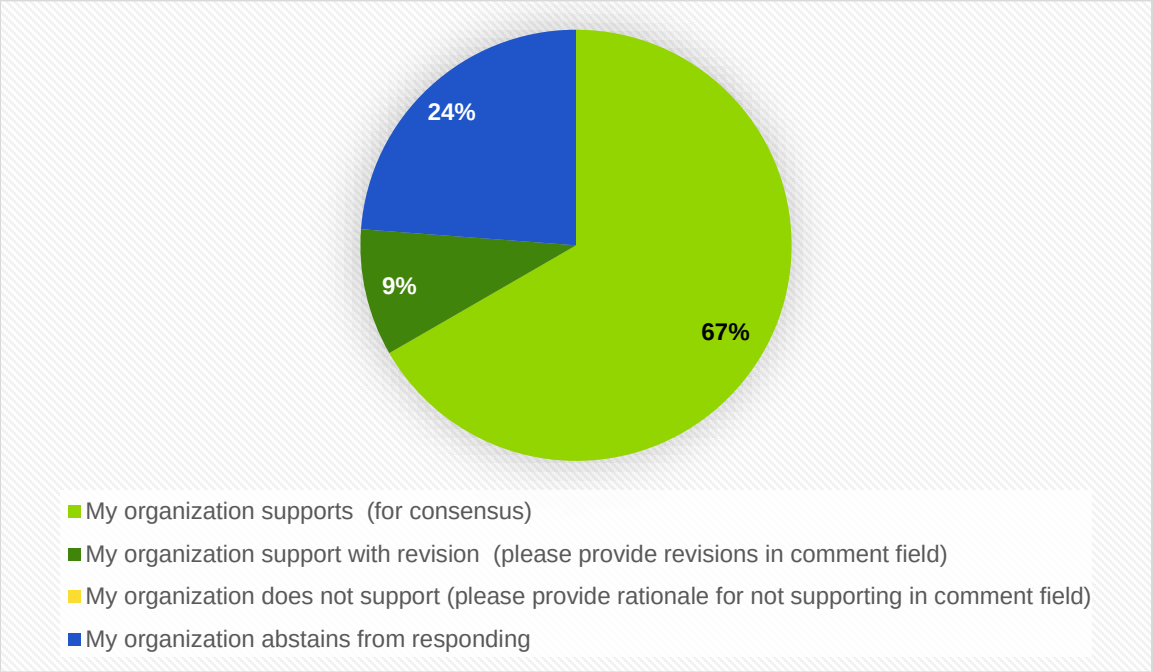
Program Partners: Community-based agencies and organizations that support low-income households.

Additional Information: For more information contact Al Ripley (919) 274-8245 al@ncjustice.org

OFFICIAL COPY
Sep 26 2023

Proposal 07 – Low Income Carve-out from Market EE

Assessment Results:



Breakdown of Results:

Supports:

- Appalachian Voices
- Crisis Assistance Ministry
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Rowan Helping Ministries
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

Supports with Revision:

- Duke Energy
- Public Staff of the North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Does not Support:

- None

Abstains:

- AARP
- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Dominion
- Nicholas Institute (Duke University)
- North Carolina Community Action Association

Comments from Assessment:

"A market study is necessary before this proposal should move forward. The participant incentive should not exceed 25% of the cost of measure." - **Public Staff of the North Carolina Utilities Commission**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: LI Carve-out from Market EE programs

Program Description: The extent to which income eligible customers may participate in programs designed for the general public is a topic of discussion in many jurisdictions. It is likely true that income-eligible utility customers participate to some degree in these programs, however this raises important questions about whether those programs serve these customers well, given that in many cases the participant is required to share in the costs of the measure, which may place additional financial burdens on the household. To ensure this would not be the case, residential general market programs can be designed with enhanced incentives for income-eligible customers. For example, a program that promotes heat pump water heaters to the general residential customer base could also offer an enhanced incentive for income-eligible customers that would significantly reduce the out-of-pocket costs of the water heater to a level that research showed could be viable for these customers. In such a program it would be critical for program marketing and information to clearly identify this enhanced incentive option to ensure that income-eligible customers do not end up paying more than is necessary. See, e.g., https://www.efficiencyvermont.com/rebates/list/heat-pump-water-heaters.

Program Objective: The program would be intended to make energy efficiency accessible to income-eligible households who would otherwise not be able to afford EE measures. Such a program would be additive to, rather than in lieu of any primary income-eligible programs such as comprehensive weatherization and should include a referral to those programs as a matter of course.

Target Participants: All income-eligible customers who might need to make a purchase to replace failed equipment and who might either not be in the queue for comprehensive services or whose need is more immediate

OFFICIAL COPY
Sep 26 2023

Program Administration: As an enhanced element of the utility's general market programs this should be administered by the same entities that already administer those programs.

Eligibility Criteria: Given the objective of using participation in enhanced general market programs as a tool to enroll income-eligible customers in comprehensive income-eligible programs, the income eligibility criteria should be the same as for the existing income-eligible comprehensive programs.

Success Metrics: Increase in number of income-eligible customers getting enhanced incentives and referrals to comprehensive programs over time, reduction in number of income-eligible customers not getting enhanced incentives.

Program Partners: All the trade allies that currently participate in general market programs.

Additional Information: For more information contact Jim Grevatt (802) 373-2488 jgrevatt@energyfuturesgroup.com

OFFICIAL COPY
Sep 26 2023

~~Proposal 08 - Comprehensive Affordable Multifamily EE~~ (see P23)

~~Name and Organization~~~~: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)~~

~~Program Name~~: ~~Comprehensive Affordable Multifamily Energy Efficiency program~~

~~Program Description~~: ~~Various regulations commonly drive utility energy efficiency programs aimed towards multifamily housing to take a fragmented approach in providing services. Multifamily tenants who are income-eligible may receive no-cost efficiency measures that are applicable only to their units, such as efficient lighting, but may not be eligible for incentives or measures that are tied to the property owners' utility bills, which are commonly on commercial rates. The incentives available through standard commercial programs may not be sufficient to make efficiency measures affordable – and clearly operating costs play a key role in determining the costs of operating multifamily housing. The result is that comprehensive efficiency projects in affordable multifamily housing are unlikely to occur, thus failing to make a significant dent in the energy costs for these buildings. To overcome these obstacles, this program would provide a one-stop shop approach where a single program point of contact would work with property owners to facilitate comprehensive efficiency projects that address both in-unit (residential) and common area/common system (commercial) efficiency measures. Rather than treating the commercially metered elements of affordable multifamily housing as a business, the program would offer enhanced incentives on the basis of the income-eligible residents, thus helping reduce the operating costs for the building as well as tenants' bills.~~

~~Program Objective~~: ~~Comprehensively address all efficiency opportunities in affordable multifamily housing regardless of metering configurations and utility rate structures.~~

~~Target Participants~~: ~~Affordable multifamily housing~~

~~Program Administration~~: ~~This program could be administered by a third-party vendor, or community action/weatherization agency.~~

~~Eligibility Criteria~~: ~~Eligibility would be based on the income-eligibility of tenants.~~

~~Success Metrics~~: ~~Overall bill reductions for affordable housing including both residential and commercial meters.~~

~~Program Partners~~: ~~State housing authority, non-profit affordable housing providers, tenant organizations, community action/weatherization agencies~~

~~Additional Information~~: ~~For more information contact Jim Grevatt (802) 373-2488 jgrevatt@energyfuturesgroup.com~~

OFFICIAL COPY
Sep 26 2023

~~Proposal 09 - Comprehensive Tiered Discount Bill Pay Assist~~ (see P24)

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Comprehensive Tiered Discount Bill Payment Assistance

Program Description: The Electric Payment Assistance Program will provide certain income eligible residential customers with monthly payment assistance to help electric energy insecure rate payers pay their electric bill. The program will have the following characteristics:

1) Three income tiers of assistance Tier 1, 0-50% FPL, Tier 2, 51-100% FPL, and Tier 3, 101% - 150% FPL with the highest level of assistance to Tier 1 and lowest level to Tier 3.
2) The goal of assistance will be to reduce the electric energy burden (i.e., the amount of income spent on electricity) to no more than 5% of family income
3) The program would provide arrearage assistance for participating customers. Arrearages would be forgiven if a residential customer remains current for a period of 12 months after enrolling in the program.
4) Admin – no more than 5% of the value of discounts and arrearage write-down could be used for program administration, however, in the first year of the program the 5 % cap would not apply to allow for the appropriate and reasonable recovery of one-time program launch costs.
5) Program would use a streamlined auto enrollment protocol in partnership with NC DHHS to enroll Tier 1-3 income verified customers. Persons qualified for certain income eligible programs within the preceding 18 months would be automatically enrolled. Programs might include CIP, LIEAP, LIWAP and/or Medicaid.
6) Participants would be provided the opportunity to apply for applicable and free EE and Weatherization programs where available.
7) Program participants would also be targeted for weatherization and EE programs.

Program Objective: Reduce electric energy burden to no more than 5% for persons at or below 150% of FPL with three assistance Tiers: Tier 1, 0-50% FPL, Tier 2, 51-100% FPL, and Tier 3, 101% - 150% FPL with the highest level of assistance to Tier 1 and lowest level to Tier 3.

Target Participants: Residential customers at or below 150% FPL that are verified to meet certain Federal program income eligibility requirements.

Program Administration: Duke Energy with 3rd party administer and DHHS support.

Eligibility Criteria: As referenced above.

Success Metrics: Metrics for program evaluation would be developed.

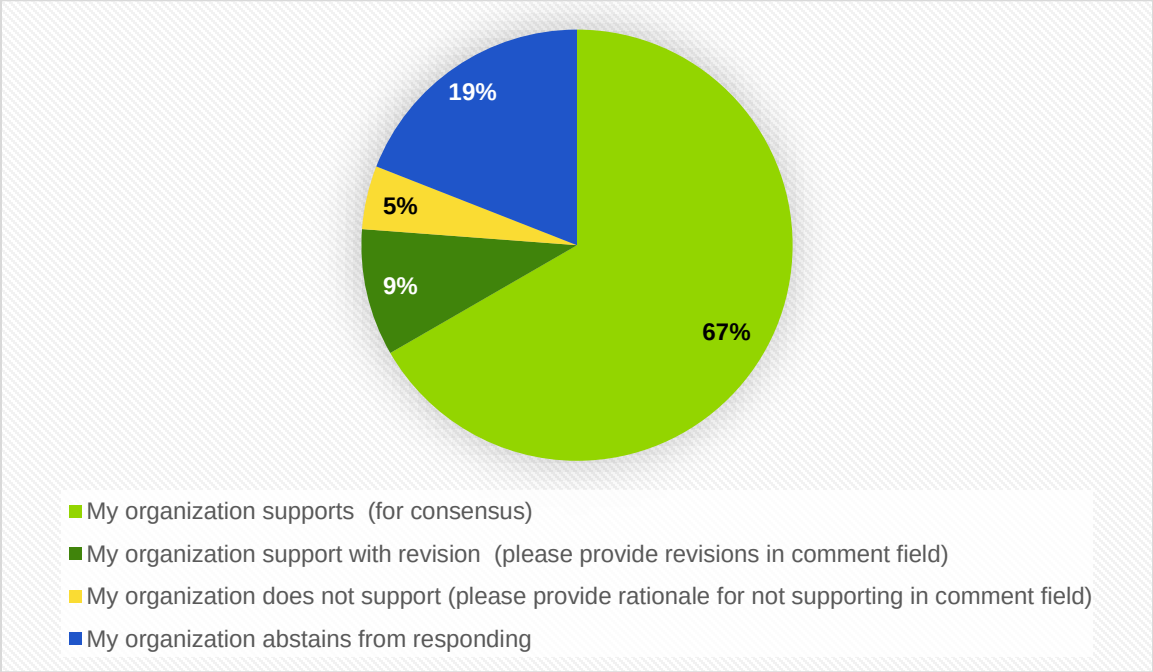
Program Partners: DHHS

Additional Information: For more information contact Al Ripley (919) 274-8245 al@ncjustice.org

OFFICIAL COPY
Sep 26 2023

Proposal 10 - Comprehensive Definition of Affordability and Develop Metrics and Methodologies for Assessing and Monitoring the Relative Affordability of Electric Service

Assessment Results:



Breakdown of Results:

Supports:

- AARP
- Appalachian Voices
- Crisis Assistance Ministry
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

Supports with Revision:

OFFICIAL COPY
Sep 26 2023

- Duke Energy
- North Carolina Community Action Association

Does not Support:

- Public Staff of the North Carolina Utilities Commission

Abstains:

- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Dominion
- Nicholas Institute (Duke University)
- Rowan Helping Ministries

Comments from Assessment:

"This proposal is not a mitigation program; it seeks to define affordability for purposes of further developing programs to mitigate conditions related to affordability." **- Public Staff of the North Carolina Utilities Commission**

"The statistical analysis included predictors for many but not all of the factors proposed for the definition of affordability in Proposal 10, and generally, all were significant in predicting the likelihood of being in arrears, receiving a 24-hour notice, and disconnections (excepting home value for disconnections). This suggests complex relationships between sociodemographic, home attributes, neighborhood characteristics, and energy usage. Capturing this complexity in reported metrics over time is supported by the findings of the statistical analysis." **– Nicholas Institute**

"The Companies support the North Carolina Utilities Commission opening an affordability docket similar to the process that the California Public Utilities Commission ordered to evaluate affordability for their regulated utilities." **– Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Adopt a Comprehensive Definition of Affordability and Develop Metrics and Methodologies for Assessing and Monitoring the Relative Affordability of Electric Service

Program Description: Until the Low-Income Affordability Collaborative was initiated, and Duke Energy began analyzing customer data related to energy consumption and costs, income, demographics, arrearages, disconnections and other factors, very little information or data was available to understand the scale and depth of affordability challenges facing the Companies' low-income residential customers. Thanks to that analysis we now have a deeper understanding of who is impacted by those challenges as well as the socioeconomic, housing and other factors that are contributing to those challenges. However, it is critical to both have a more comprehensive definition of affordability as well as metrics that can be used to more accurately assess affordability on the household level and track changes in those metrics over time as new

OFFICIAL COPY
Sep 26 2023

programs are developed and implemented. The proposed program would adopt the California Public Utilities Commission's (CPUC's) definition of affordability along with the three metrics the CPUC adopted for annually measuring and monitoring affordability. The adopted definition is as follows: "the degree to which a representative household is able to pay for an essential utility service charge, given its socioeconomic status. A "representative household," rather than households in general, recognizes that households will have a wide variety of experiences that cannot be perfectly captured by depicting a single household. "Essential utility service charge" refers to the costs borne by a representative household for the quantity of utility service required to enable a ratepayer's health, safety, and full participation in society. "Socioeconomic status" refers to the social and economic standing of a given household." The three metrics the CPUC has adopted are: (1) the Affordability Ratio, which "quantifies the percentage of a representative household's income that would be used to pay for an essential utility service, after non-discretionary expenses such as housing and other essential utility service charges are deducted from the household's income"; (2) the Hours at Minimum Wage, which "quantifies the hours of earned employment at the city minimum wage necessary for a household to pay for essential utility service charges"; and, (3) the Socioeconomic Vulnerability Index, which "represents the relative socioeconomic standing of census tracts, referred to as communities, in terms of poverty, unemployment, educational attainment, linguistic isolation, and percentage of income spent on housing," and as such "considers how a rate change may affect one community's ability to pay more than another's." Maps, data and annual reports should be produced and made public.

Program Objective: Adopting a comprehensive definition of affordability of electric service, along with appropriate metrics for measuring and monitoring changes to affordability over time, will benefit low-income customers by enabling utilities to appropriately target affordability programs to the customers and communities that struggle the most with electric bills, and to assess the impact of those programs in terms of improving the affordability of electric service.

Target Participants: All low-income customers that struggle with affording electric service, and more specifically, the customers and communities that struggle the most (assuming that those customers are prioritized).

Program Administration: This program could be administered by the Companies, with oversight by the NC Utilities Commission and/or Public Staff. Alternatively, it could be administered by a third-party vendor in partnership with the Companies as well as local community action/weatherization agencies and/or Departments of Social Services.

Eligibility Criteria: N/A

Success Metrics: The adoption of the CPUC's definition of affordability and affordability metrics and successful implementation and use of those metrics in reducing/alleviating affordability challenges and associated impacts.

Program Partners: See language about program administration. Additional partners could be low-income and clean energy advocates, housing agencies and advocates, academic research institutions, etc.

Additional Information: As noted, the CPUC has already adopted the definition and metrics proposed here and requires annual reporting that is made available to the public. No similar program has yet been proposed in North Carolina, with the exception of numerous proposals to

OFFICIAL COPY

Sep 26 2023

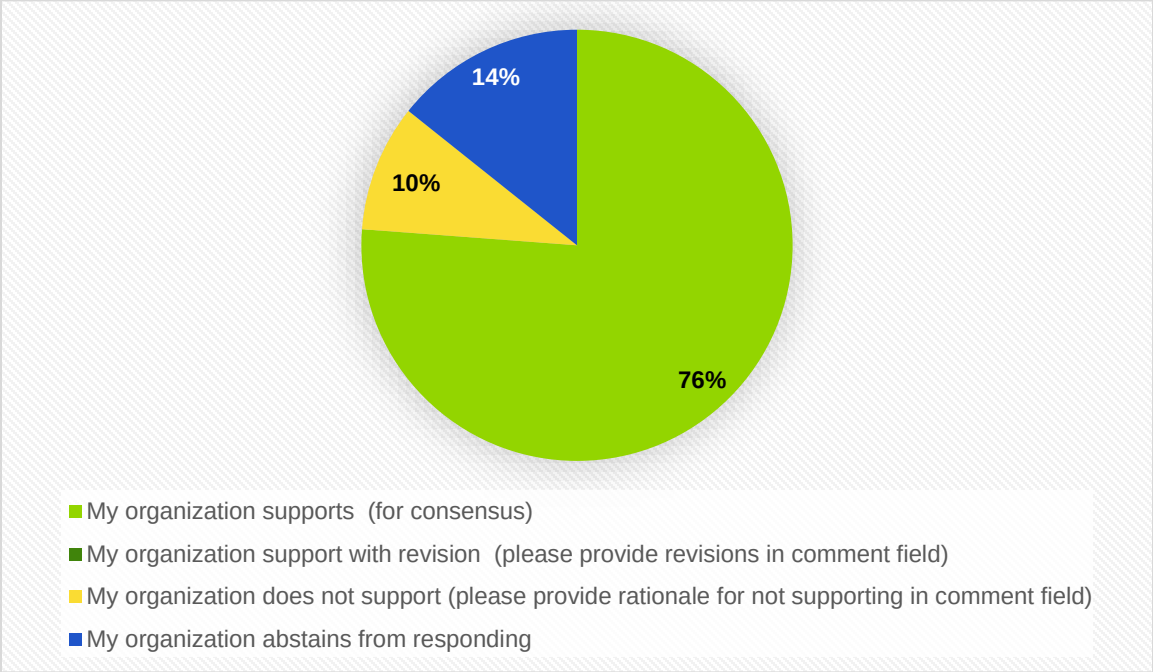
require the Companies to provide monthly, zip-code level reports on customer energy use, arrearages, disconnections for non-pay, etc. We don't foresee any regulatory or policy barriers that would need to be addressed. More information about the CPUC Affordability Rulemaking can be found here: https://www.cpuc.ca.gov/industries-and-topics/electrical-energy/affordability

For more information contact Rory McIlmoil (828)278-4558 rory@appvoices.org

OFFICIAL COPY
Sep 26 2023

Proposal 11 - Prioritized Marketing and Distribution LI Funds

Assessment Results:



Breakdown of Results:

Supports:

- AARP
- Appalachian Voices
- Crisis Assistance Ministry
- Duke Energy
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Community Action Association
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

Supports with Revision:

OFFICIAL COPY
Sep 26 2023

- None

Does not Support:

- Public Staff of the North Carolina Utilities Commission
- Rowan Helping Ministries

Abstains:

- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Dominion
- Nicholas Institute (Duke University)

Comments from Assessment:

"All low-income customers should be eligible for low-income programs and initiatives. There does not appear to be an EE component tied to the assistance sought in this program." **- Public Staff of the North Carolina Utilities Commission**

"The findings of the statistical analysis provide support for prioritizing outreach to based on sociodemographics and electric burden." **– Nicholas Institute**

"Carving our communities for distribution of funding could negatively more rural communities/households." **– Rowan Helping Ministries**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Prioritized Marketing and Distribution of Low-Income Funds

Program Description: This recommendation could work in combination with or independently of recommendation LIAC PP011. Recognizing that affordability challenges and impacts are experienced more acutely by some households and communities than others, there is a need to ensure that low-income funds and other support are prioritized in a manner that has the greatest impact for those most affected and addresses, to the extent practicable, certain disparities that were exposed as a result of the Companies' analysis. For example, the analytics show that African American households served by the Companies experience the highest rate of meeting the Companies' arrears definition (33% of all households, compared to the average of approximately 16% for all households) as well as the highest rate of disconnections for non-pay (8% compared to 3.9%). Rental, multifamily, mobile home and low-value households experienced similar disparities. In summary, the marketing and distribution of low-income funds and programs should prioritize the customers that experience the highest rate of arrearages and disconnections for non-pay.

Program Objective: Prioritizing and targeting program funds to households and communities that disproportionately experience affordability challenges and impacts.

OFFICIAL COPY
Sep 26 2023

Target Participants: Low-income households and communities that disproportionately experience affordability challenges and impacts.

Program Administration: This program could be administered by the Companies, with oversight by the NC Utilities Commission and/or Public Staff. Alternatively, it could be administered by a third-party vendor in partnership with the Companies as well as local community action/weatherization agencies and/or Departments of Social Services.

Eligibility Criteria: N/A

Success Metrics: The adoption of the CPUC's definition of affordability and affordability metrics and successful implementation and use of those metrics in reducing/alleviating affordability challenges and associated impacts for priority communities would be helpful for this new recommendation. In the absence of that, ongoing analysis of customer data as was performed for the Low-Income Affordability Collaborative could achieve the same goal.

Program Partners: See language about program administration. Additional partners could be low-income and clean energy advocates, housing agencies and advocates, academic research institutions, etc.

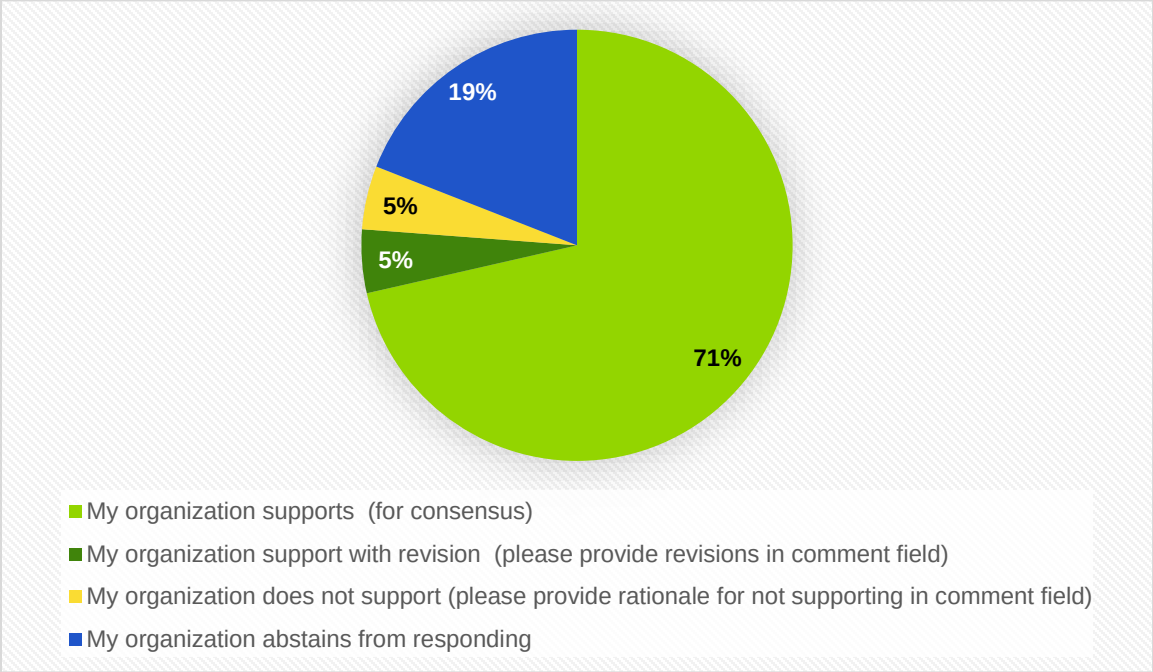
Additional Information: We don't foresee any regulatory or policy barriers that would need to be addressed.

For more information contact Rory McIlmoil (828)278-4558 rory@appvoices.org

OFFICIAL COPY
Sep 26 2023

Proposal 12 - Required Credit and Collections Data Reporting

Assessment Results:



Breakdown of Results:

Supports:

- AARP
- Appalachian Voices
- Crisis Assistance Ministry
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Rowan Helping Ministries
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

Supports with Revision:

- Duke Energy

OFFICIAL COPY
Sep 26 2023

Does not Support:

- Public Staff of the North Carolina Utilities Commission

Abstains:

- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Dominion
- Nicholas Institute (Duke University)
- North Carolina Community Action Association

Comments from Assessment:

"These data points could provide meaningful value and may be appropriate as one of the metrics established in the next Duke rate cases." **- Public Staff of the North Carolina Utilities Commission**

"The Companies support the supporting of aggregated data pending it meets the required requirements to keep information confidential. If the NCUC approves the reporting of zip code level data, the requirements should align with a NCUC decision in the pending Rulemaking filed in Docket No. E-100, Sub 161." **– Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Required Reporting of Key Credit and Collections Data by NCUC Regulated Utilities

Program Description: The challenges posed by the Covid-19 crisis have heightened the importance of sustained, affordable access to essential home energy service for all households in NC and across the nation. Yet, there is currently only limited capacity and opportunity in NC to gain a clear, data-driven understanding of the number of households that lose access to home energy services and otherwise struggle with utility affordability and security. Without the data, home energy affordability challenges and their often-dire consequences remain invisible, and the effectiveness of utility credit and collections practices cannot be assessed. Further, development and implementation of effective programs and policies to address access and affordability challenges is thwarted by lack of data. There is a pressing need to step up utility collection and public reporting of data reflecting service disconnections and restorations, as well as other measures of home energy security.

The following "key Data Points" would be required for monthly reporting by zip code:

- Number of customers,
- Dollar amount billed,
- Number of customers charged a late payment fee,
- Dollar value of late fees collected,
- Number of customers with an arrearage balance by vintage

OFFICIAL COPY
Sep 26 2023

    - 60 – 90 days
    - 90+ days,
- Dollar value of arrearages by vintage
    - 60 – 90 days
    - 90+ days
- Number of disconnection notices sent
- Number of disconnections for nonpayment
- Number of service restorations after disconnection for nonpayment
- Average duration of disconnection
- Dollar value of level of security deposits collected
- Number of security deposits collected,
- Number of new deferred payment agreements entered into
- Average repayment term of new deferred payment agreements
- Successfully completed deferred payment agreements, and
- Average repayment term of payment agreements.

Program Objective: Requiring the sharing of certain aggregated utility data in NC to gain a clear, data-driven understanding of the number of households that lose access to home energy services and otherwise struggle with utility affordability and security will provide a meaningful opportunity to utilize this data to improve programs and services to residential rate payers that are low-income.

Target Participants: Low-income residential customers.

Program Administration: Utility Companies.

Eligibility Criteria: N/A

Success Metrics: This proposal would actually help provided clearer metrics for accessing the impacts of all programs intended to assist customers that are low-income.

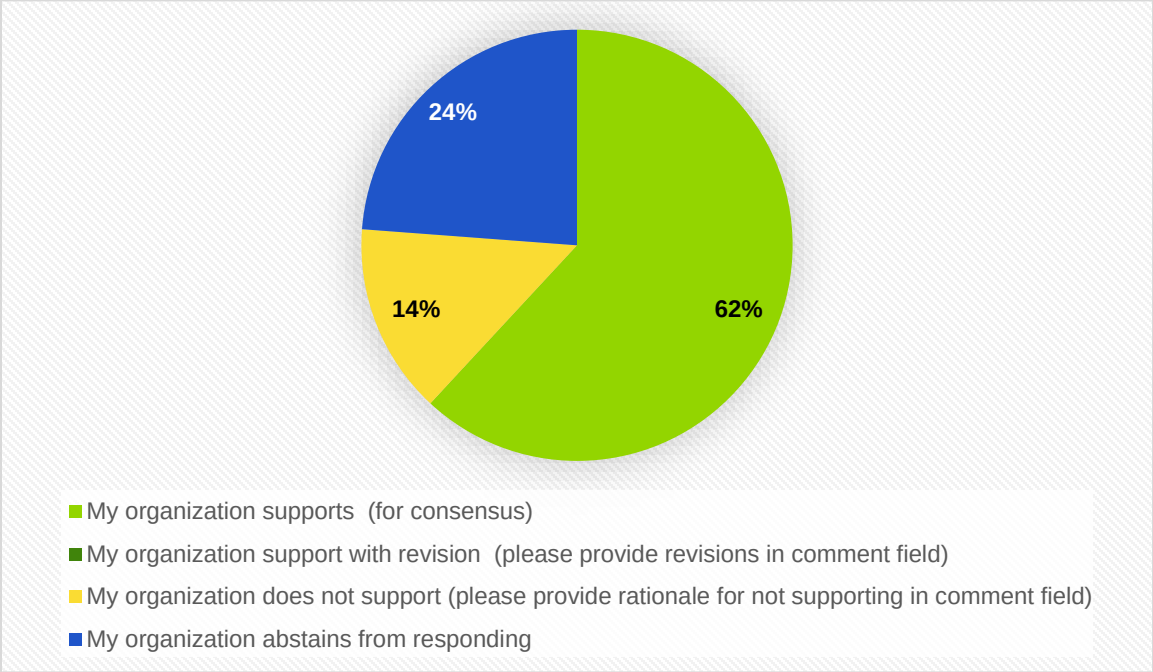
Program Partners: N/A

Additional Information: For additional information contact Al Ripley (919) 274-8245 al@ncjustice.org

OFFICIAL COPY
Sep 26 2023

Proposal 13 - Minimum Bill Pilot Program

Assessment Results:



Breakdown of Results:

Supports:

- Appalachian Voices
- Crisis Assistance Ministry
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

Supports with Revision:

- None

Does not Support:

OFFICIAL COPY
Sep 26 2023

- Dominion
- Duke Energy
- Public Staff of the North Carolina Utilities Commission

Abstains:

- AARP
- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Nicholas Institute (Duke University)
- North Carolina Community Action Association
- Rowan Helping Ministries

Comments from Assessment:

"This program does not follow cost of service principles. Not a mitigation program." **- Public Staff of the North Carolina Utilities Commission**

"Proposal doesn't explain how this program will be funded. Need more information on how the utility is expected to recover costs when usage that exceeds the minimum payment." **– Dominion**

"The statistical analysis findings showed that households with higher winter and summer peak impact were more likely to be in arrears and receive 24-hour notifications. Those households at the highest categories of impact were also more likely to be disconnected." **– Nicholas Institute**

"The Companies do not support the proposed minimum bill pilot. Overall, the Companies support minimum bill as a rate design tool similar to minimum bill rate design offered by Duke Energy regulated utilities in South Carolina and Florida." **– Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Minimum Bill Pilot Program

Program Description: Historically, Duke Energy has had a two-part rate for residential customers: (1) a volumetric, or per kilowatt hour rate; and (2) a fixed, customer charge, currently set to $14.00 per month. As part of its Order establishing the Low-Income Affordability Collaborative, the Commission asked whether a minimum bill concept would be appropriate as a substitute for fixed monthly charges. To explore this minimum bill rate design, Duke Energy will offer customers who enroll in bill payment assistance programs and customers that enroll in any low-income energy efficiency or any tariffed on-bill financing program a minimum bill option. Under the minimum bill option, participating customers would owe a minimum of about $14.00 per month, regardless of usage, and the prior $14.00 customer charge would be removed from the bill and folded into the volumetric rate. This would result in an increase of about 1.27 cents/kWh, increasing the value of any energy efficiency investments and providing bill savings for all customers who use less than about 1,100 kWh/month. Any customers who consume

OFFICIAL COPY
Sep 26 2023

more than 1,250 kWh/month and may face an increase in their monthly bill but are enrolled in a discount rate or bill-payment assistance program would be protected from being harmed from the risk of bill increases from the incremental increase in the volumetric rate.

Program Objective: Reduce the bills of low-usage, low-income customers, increase the value of all energy efficiency programs for those customers, experiment with the minimum bill approach, while guaranteeing the same monthly minimum bill that the utility expects from the basic customer charge. Gain experience with the minimum bill approach and consider expanding to all residential customers.

Target Participants: Customers who participate in any (1) bill-payment assistance or discount programs; (2) any income-eligible energy efficiency programs; and (3) any future tariffed on-bill programs for financing energy efficiency.

Program Administration: Duke Energy Carolinas and Duke Energy Progress

Eligibility Criteria: Customers who meet the income-qualified criteria for Duke's low-income energy efficiency programs, customers who participate in any bill-payment assistance or discount programs, and customers who participate in on-bill financing programs.

Success Metrics: Increase the level low-income customer participation and energy / bill savings.

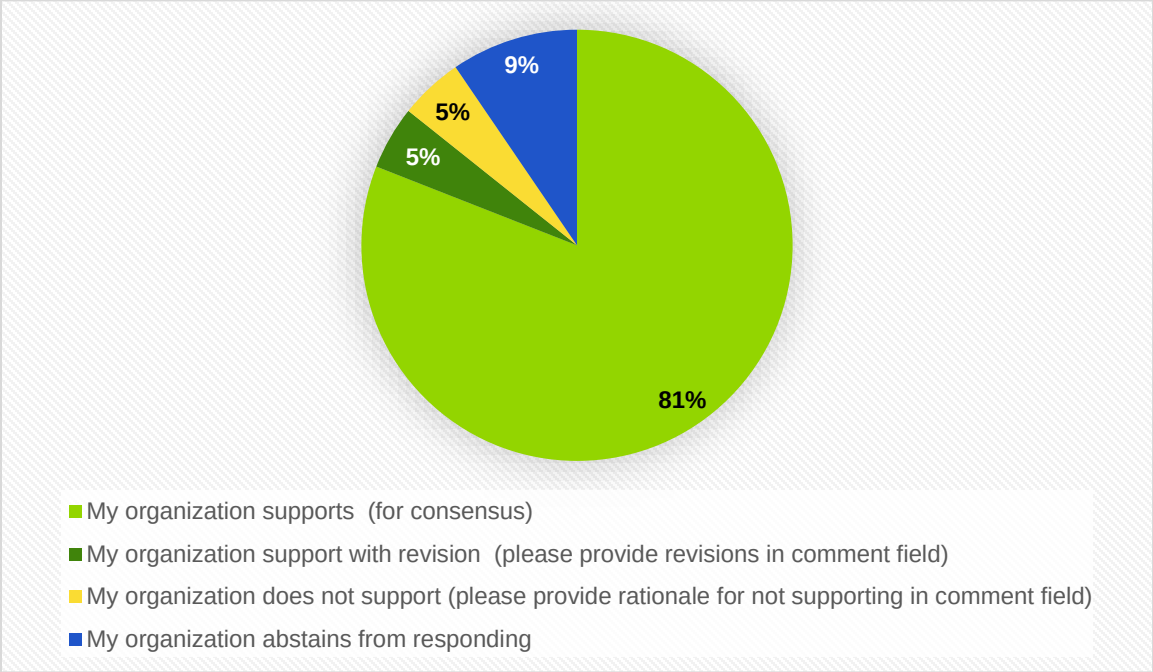
Program Partners: N/A

Additional Information: For more information contact David Neal (919) 967-1450 dneal@selcnc.org

OFFICIAL COPY
Sep 26 2023

Proposal 14 - Voluntary Wx, EE, UR Partnership Forum

Assessment Results:



Breakdown of Results:

Supports:

- AARP
- Appalachian Voices
- Crisis Assistance Ministry
- Dominion
- Duke Energy
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Rowan Helping Ministries
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

Supports with Revision:

OFFICIAL COPY
Sep 26 2023

- North Carolina Community Action Association

Does not Support:

- Public Staff of the North Carolina Utilities Commission

Abstains:

- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Nicholas Institute (Duke University)

Comments from Assessment:

"This proposal would duplicate initiatives of the State Energy Office and thus is unnecessary." **- Public Staff of the North Carolina Utilities Commission**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: Voluntary Weatherization, EE, UR Partnership Forum co-led by NC DEQ and the NCUC

Program Description: This proposal recommends the creation of a voluntary forum where leaders from DEQ, the NCUC, the NC Housing Finance Agency, regulated utilities, and other stakeholders, would periodically meet to coordinate the operation of respective EE, Urgent Repair, and Weatherization programs.

The NC Department of Environmental Quality (DEQ) is responsible for administering the Weatherization Assistance Programs (WAP) in North Carolina. The North Carolina Housing Finance Agency runs an Urgent Repair Program. The NC Utility Commission oversees certain energy efficiency programs in NC and some utilities maintain programs that address certain weatherization and urgent repair / health and safety dynamics for residential ratepayers

The goal of the Forum would be to create new ways that operators of these respective programs could meet the needs of low-income residential customers through better coordination of program design, administration, and implementation.

Program Objective: The goal of the Forum would be to create new ways that operators of these respective programs could meet the needs of low-income residential customers through better coordination of program design, administration, and implementation.

Target Participants: Low-income residential customers.

Program Administration: NC DEQ and NCUC

Eligibility Criteria: N/A

Success Metrics: N/A

Program Partners: N/A

OFFICIAL COPY

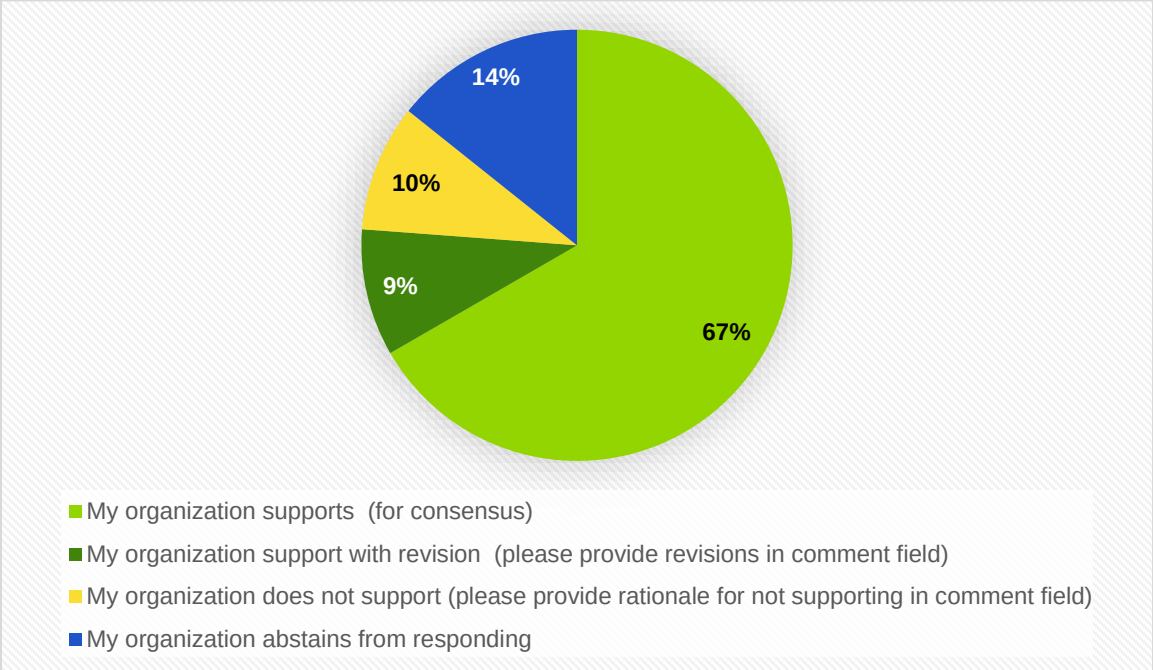
Sep 26 2023

Additional Information: For additional information contact Al Ripley (919) 274-8245 al@ncjustice.org

OFFICIAL COPY
Sep 26 2023

Proposal 15 - Duke Energy Winter Moratorium

Assessment Results:



Breakdown of Results:

Supports:

- AARP
- Appalachian Voices
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Community Action Association
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

Supports with Revision:

- Duke Energy
- Public Staff of the North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Does not Support:

- Crisis Assistance Ministry
- Rowan Helping Ministries

Abstains:

- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Dominion
- Nicholas Institute (Duke University)

Comments from Assessment:

"Automatically enrolling customers should be done with caution. If a family cannot keep up with their payment, stopping the disconnection automatically doesn't make it any easier for them to afford electricity of course. Alternatives are -- work with the person to pay as much as they can each month to minimize debt build up, encourage them to apply for all the available funds so as not to lose them, help the person realize they can't afford to stay where they are and help them move in with a family member, friend or in some cases a shelter can be their best option (some approaches we consider at Crisis Assistance Ministry.) Each of these could be more empowering than encouraging a person to continue amassing debt, even if there are 24 months to pay it off or inadvertently encouraging them not to seek available winter aid. If we go this route we should send a notice that they will not be disconnected in certain temperatures but clearly stating that not only is the bill accumulating but that there are places to call for housing counseling to explore alternative options (including budget counseling if applicable) or financial assistance." **– Crisis Assistance Ministry**

"This would be best suited as a pilot program, specific – at least initially – to the winter season only. The Commission should consider expanding any potential pilot to all IOUs and LDCs." **- Public Staff of the North Carolina Utilities Commission**

"Our observation is that the COVID moratorium did nothing to help our clients but saddled them with higher bills and payment arrangements they could not manage once the bills came due. It created a debt tsunami." **– Rowan Helping Ministries**

"The Companies support enrolling LIEAP and CIP recipients in a Winter Moratorium that aligns with the timeframe detailed in NCUC Rule 12-11 from November 1 – March 31. LIEAP and CIP recipients would be automatically enrolled in a 6-month payment arrangement at the end of the moratorium. The Companies do not support a summer moratorium or automated referral for arrears greater than $550. The Company will request to seek cost recover of any debts that result to uncollectible charges; similar to the existing process to collect uncollectible charges. The enrollment of LIEAP and CIP in a Winter Moratorium is dependent up receiving the required information from the NCDHHS." **– Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

OFFICIAL COPY
Sep 28 2023

Program Name: Revisions to the Duke Energy Winter Moratorium

Program Description: During part of the COVID pandemic, and to the credit of the Utility Commission, the Public Staff, the NC Attorney General, and Duke Energy, what is commonly known as the Duke Energy Winter Moratorium (WM) was expanded to include LIEAP, CIP, and NC Hope recipients. The modified WM covered three of Duke's Companies; Duke DEC, Duke DEP, and Piedmont Natural Gas and covered 114,000 residential accounts.

This proposal would permanently alter the Winter Moratorium by adding the following provisions:

1) Automatically enroll CIP and LIEAP recipients in the moratorium

2) A moratorium against disconnections would be provided to eligible customers provided arrearages remain below $550.

3) An automatic CIP assistance referral would be triggered when arrears reach $550.

4) A 24-month repayment plan for any arrearage balances that remain upon the conclusion of the moratorium with a provision allowing for 2 missed payments per year during the repayment period.

Consider adding a Summer Moratorium with the same provisions for the months of July and August and/or an extreme weather moratorium that prohibits non-pay disconnections and requires temporary reconnections whenever temperature or weather conditions would lead to an undue risk of unsafe conditions.

Program Objective: To protect low-income eligible customers from disconnection during extreme weather conditions.

Target Participants: Low-income residential customers that receive LIEAP and CIP assistance.

Program Administration: Utility Companies.

Eligibility Criteria: N/A

Success Metrics: Reduction in disconnections during moratorium months.

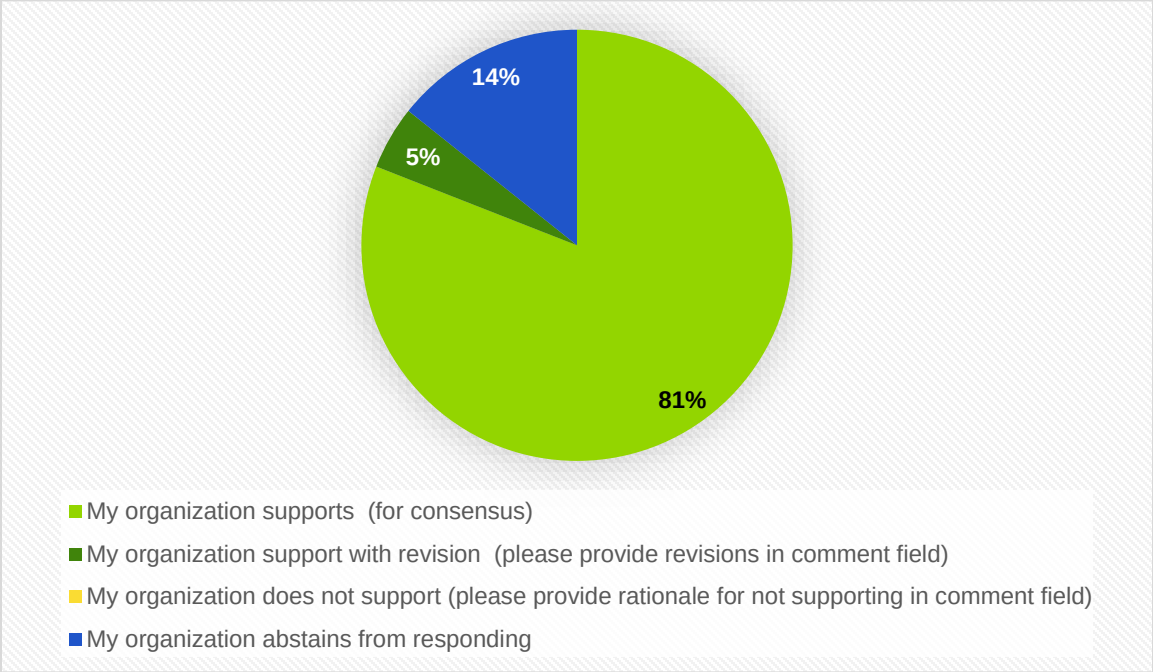
Program Partners: N/A

Additional Information: For additional information contact Al Ripley (919) 274-8245 al@ncjustice.org

OFFICIAL COPY
Sep 26 2023

Proposal 16 - Re-examine Regulatory Consumer Protection

Assessment Results:



Breakdown of Results:

Supports:

- AARP
- Appalachian Voices
- Crisis Assistance Ministry
- Dominion
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Community Action Association
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Public Staff of the North Carolina Utilities Commission
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

Supports with Revision:

OFFICIAL COPY
Sep 26 2023

- Duke Energy

Does not Support:

- None

Abstains:

- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Nicholas Institute (Duke University)
- Rowan Helping Ministries

Comments from Assessment:

"The Companies support the review of the existing regulatory consumer protections detailed in NCUC Rule R12-11. If the output of the review requires technical system changes, the Companies request the required timeframe to update impacted systems which could be 12 months. In addition, the Companies will seek cost recovery of costs associated with required technical system changes and costs incurred as a result of any policy/rule changes." **– Duke Energy**

Program Proposal Information:

Name and Organization: Al Ripley, Multi-Stakeholder Program Proposals (as submitted by NC Justice Center)

Program Name: NCUC Rulemaking to Re-examine the Effectiveness of the Regulatory Consumer Protection Structure

Program Description: In light of the sweeping economic and technological transformation of the electric power sector, and with the prospect of dramatically increased reliance on electricity service in the face of electrification and decarbonization efforts, low-income and historically disadvantaged households and communities are particularly reliant upon effective utility consumer protections. However, many of the existing state consumer protection frameworks are no longer effective in providing consumers with reasonable security from loss of vital service. Today's energy price levels and critical importance of service may not have been contemplated when original regulations were adopted decades ago. As evidenced LIAC assessments of residential customer involuntary service disconnections, existing North Carolina consumer protections have proven inadequate to provide an acceptable level of household energy security and uninterrupted access to vital service. Meantime, the necessity of electricity service is increasing for a wider range of purposes — school, work, building end uses, and transportation. When consumer protections are inadequate and energy security is compromised, the protections for low-income households actually work counter to the goals and objectives of federal and state payment assistance and energy efficiency programs. For example, when a state LIHEAP office scrambles to cobble together the resources necessary to keep a client from losing utility service, those efforts may be undermined by an unreasonable payment plan or onerous security deposit and late payment fee provisions. What is needed now is a re-examination of existing utility consumer protections to ensure that vulnerable customers who

OFFICIAL COPY
Sep 26 2023

demonstrate good faith efforts to make affordable utility payments are protected from loss or degradation of service.

Program Objective: The purpose of this proposal is to recommend that the North Carolina Utility Commission initiate a Rulemaking proceeding to re-examine existing rules and regulations regarding provision and denial of electric service; provision of consumer information; security deposits; late payment fees; disconnection, termination and restoration of service; establishment and terms of payment plans, and resolution of disputes between customers and utility companies.

Target Participants: The intent of this proposal is to recommend a Rulemaking proceeding focused on consumer protections applicable to residential utility service customers.

Program Administration: N/A

Eligibility Criteria: To be determined by outcome of a prospective Rulemaking.

Success Metrics: Increase the level low-income access to and retention of necessary electric utility service.

Program Partners: N/A

Additional Information: For additional information, including summaries of state utility consumer protections and service delivery rules, see National Consumer Law Center, Access to Utility Service, (6th ed. 2018), Appx. A.1–A.4 updated at www.nclc.org/library.

For more information contact Al Ripley (919) 274-8245 al@ncjustice.org

OFFICIAL COPY
Sep 26 2023

~~Proposal 17 - Help My House Model~~ (Redirected to Tariff Working Group)

Name and Organization: Christina Cress, Bailey & Dixon, LLP

Program Name: Help My House Model (based on South Carolina program)

Program Description:

"The results of the 'Help My House' pilot [in South Carolina] were extremely positive. Billing data on the 125 participating homes indicates a 34 percent reduction in energy use (1.35 million kWh) in the year after the energy efficiency improvements were completed, an average savings of $288 per home after loan payments."

https://www.eesi.org/files/HelpMyHouseBrochure_June2013.pdf

https://www.eesi.org/files/HelpMyHouseFinalSummaryReport_June2013.pdf

Program Objective: Give LMI ratepayers the opportunity to improve their homes and make them more energy efficient while also reducing their monthly electric bills through low-cost on-bill financing.
https://www.eesi.org/obf/case-study/helpmyhouse

Target Participants: "Rural communities in South Carolina have a relatively high percentage of older, less efficient homes and low-income residents, which for some households means spending more than 70 percent of their income on energy during peak heating and cooling months. In addition to having poor insulation and weatherization, many rural homes still use electric resistance heating, which is notoriously inefficient and costly. These homes represent some of the simplest and most cost-effective opportunities to save energy in the state."

Program Administration: Utility would proactively solicit program participation from households who meet certain threshold energy usage/burden and income criteria. An audit team comprised of utility and third-party independent administrator would solicit additional information to verify eligibility. The Public Staff would also have audit power. Quarterly reports could be submitted to the NCUC to allow it and the Public Staff (and any intervenors) to track progress. Seek federal grant and/or loan-funding to pay for costs, with any remaining administrative costs recovered over the life of the on-bill financing terms from program participants. Lost revenues would be recovered through EE/DSM rider.

Eligibility Criteria: Electric heat eligibility

Success Metrics: ""The HMH pilot program was conceived and designed to determine the cost-effectiveness of energy efficiency measures and whole home retrofits. The pilot defined cost-effectiveness as annual energy savings exceeding annual loan payments. Measures must be cost-effective in order for an OBF program to be viable. Co-ops are also concerned about the effect of whole house weatherization on system peak. This analysis examines energy savings, demand savings and the value of each of these to the participants and to the co-ops.""

Program Partners: USDOE and other federal/state government agencies, possible NGOs, Public Staff, independent auditor/administrator

OFFICIAL COPY
Sep 26 2023

Additional Information: Yes, this program was successful in South Carolina. In addition, H951 directs the NCUC to evaluate on-bill financing options for energy efficiency measures, so I think this kind of program is ripe for consideration/potential regulatory approval. If it could be paired with LMI initiatives, all the better.

""The results of the ""Help My House"" pilot were extremely positive. Billing data on the 125 participating homes indicates a 34 percent reduction in energy use (1.35 million kWh) in the year after the energy efficiency improvements were completed, an average savings of $288 per home after loan payments.

The low-interest 10-year loans (which averaged just under $7,700) are on track for a simple payback of 6.6 years, nearly identical to projections made at the time the loans were made. The average participating home is expected to save a net of more than $8,500 over 15 years. The pilot applied a comprehensive ""whole house"" approach, in which all of the energy efficiency measures were evaluated as part of the same system. Participating homes received a combination of air sealing, duct repair, HVAC upgrades, and insulation improvements. More than 95 percent of participants reported that they were more satisfied with their co-op after participating in the pilot.""

OFFICIAL COPY
Sep 26 2023

~~Proposal 18 - Smart $aver Low Income Multi-Family Retrofit~~ (see P23)

Name and Organization: Christina Cress, Bailey & Dixon, LLP

Program Name: Smart $aver Low Income Multi-Family Retrofit Program (Smart $aver LIMP)

Program Description: Smart $aver LIMP projects would involve efficiency upgrades for buildings with currently high energy consumption, specifically for lighting, appliances, weatherization, heating systems, controls, domestic hot water, and HVAC/mechanical systems. Eligible measures under the LIMRP would be directly installed at no charge to the low-income customer, and would include: (1) comprehensive energy assessment, including customer education; (2) weatherization, including wall, attic, floor, and pipe and duct insulation, as well as air sealing (caulking, weather stripping, door and window hardware, window parting beads and stops); (3) programmable thermostats; (4) blower door analysis; (5) heating system tune-up, repair, and replacement; (6) low-flow showerheads and faucet aerators; (7) minor building repairs, including glass replacement and adjustment of window meeting rails; (8) replacement of inefficient appliances, including refrigerators and clothes washers; (9) installation of compact fluorescent lamps (CFLs) and LEDs; (9) health and safety measures such as wire inspection, ventilation, and the DOE lead-free protocol; and (10) multi-family-building-specific measures, such as common area lighting fixtures, HVAC motors and controls and heating systems.

Program Objective: To provide cost-effective energy efficiency improvements to multi-family buildings, including nonprofit and public housing authorities. For-profit entities are eligible to apply for funds to improve the energy usage of their buildings.

Target Participants: 1-4 unit residential buildings where at least 50% of the units are occupied by low-income residents earning at or below 60% of area median income and are high energy users. For single-family dwellings, 50% of occupants at or below 60% of the state median income level.

Program Administration: The utility would provide the primary administrative and functional roles. Potentially a third-party administrator or contractor could oversee the day-to-day operations, including scheduling, assessing and installing eligible measures in income-eligible customers' homes and buildings. The utility (or an entity acting on its behalf) would also be responsible for leveraging other federal and state funding sources to provide the most comprehensive energy efficiency projects possible. The NCUC would have oversight authority to review multi-family projects and ensure utility compliance with best practices, including ensuring cost-effectiveness and managing overall program costs. The NCUC would also have additional oversight authority through the cost-recovery regulatory mechanism set forth in G.S. 62-133.9

Eligibility Criteria: 1-4 unit residential buildings where at least 50% of the units are occupied by low-income residents earning at or below 60% of area median income and are high energy users. For single-family dwellings, 50% of occupants at or below 60% of the state median income level.

Success Metrics: Net Annual Savings (MWh); Net Lifetime Savings (MWh); # of customers participating; CCE ($ per lifetime kWh); annual peak demand savings (summer/winter kW).

OFFICIAL COPY

Sep 26 2023

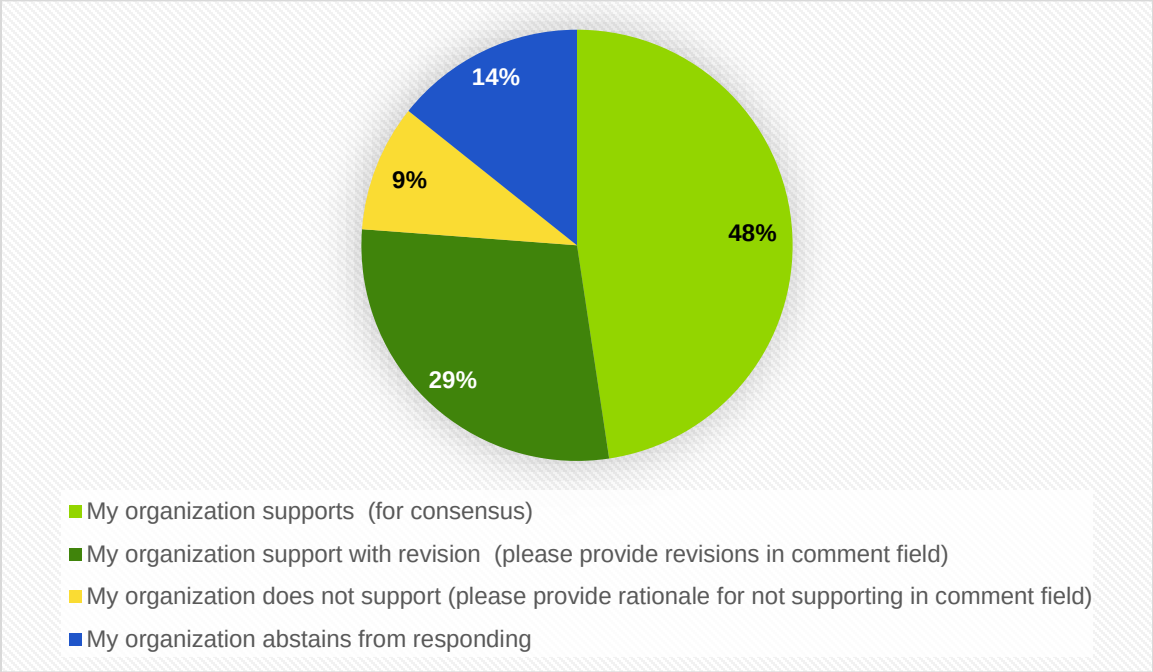
Program Partners: U.S. Department of Energy; U.S. Department of Health and Human Services; North Carolina Department of Health and Human Services; Building Performance Institute (BPI); North American Technician Excellence (NATE)

Additional Information: This program has been successfully implemented in Massachusetts and has received tons of accolades as being an "exemplary" energy efficiency program.

OFFICIAL COPY
Sep 26 2023

Proposal 19 - NC Healthy Homes Initiative

Assessment Results:



Breakdown of Results:

Supports:

- Appalachian Voices
- Crisis Assistance Ministry
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Community Action Association
- North Carolina Housing Coalition
- Rowan Helping Ministries
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Vote Solar

Supports with Revision:

- AARP
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Public Staff of the North Carolina Utilities Commission
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)

OFFICIAL COPY
Sep 26 2023

Does not Support:

- Dominion
- Duke Energy

Abstains:

- Nicholas Institute (Duke University)
- North Carolina Dept of Health and Human Services
- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)

Comments from Assessment:

"This is a critically needed program and builds on NCCAA's experience with the BC/BS grant for the Healthy Homes Initiative and the Duke Healthy Home Fund. But it is not clear from the proposal where the funds would come from for this NC HHI. Ratepayer funds have historically been limited to energy efficiency related upgrades. Ideally, healthcare related funds or other government programs could support an initiative like this to improve the health and safety of homes and make them ready for EE upgrades." **– Southern Environmental Law Center (SELC)**

"This program should be funded first with DOE weatherization funds and LIHEAP." **– AARP**

"The program administration should be determined by RFQ. Only non-ratepayer funds should be utilized for health and safety work. Ratepayer funds could be used for EE measures and to reduce cost of service." **- Public Staff of the North Carolina Utilities Commission**

"Scope is focused on healthier home initiative vs removing energy burden via EE initiatives." **– Dominion**

"This is a critically needed program and builds on NCCAA's valuable experience with the BC/BS grant for the Healthy Homes Initiative and the Duke Helping Home Fund. But it is not clear from the proposal where the funds would come from for this NC HHI. Ratepayer funds have historically been limited for energy efficiency related upgrades. Ideally, healthcare funds could be identified to support an initiative like this to improve the health and safety of homes, which would have the added benefit of making them ready for EE upgrades." **– North Carolina Justice Center**

"We support the intent of the program but think there needs to be more discussion about where the funding for this program comes from since that does not seem to have been defined in this proposal." **– North Carolina Sustainable Energy Association**

"We strongly support the establishment of consistent funding for health, safety, and incidental repairs to supplement federal, state, and ratepayer funds for energy efficiency. We know there are potential challenges with regard to use of ratepayer funds for these purposes, but are committed to working through the associated regulatory issues and/or assist in seeking additional funding from other sources." **– Southern Alliance for Clean Energy (SACE)**

"The Companies do not support this proposal as it doesn't have a specific time to the scope of identifying opportunities to address affordability for low-income customers." **– Duke Energy**

OFFICIAL COPY
Sep 28 2023

Program Proposal Information:

Name and Organization: Detrick Clark, The North Carolina Community Action Association

Program Name: The NC Healthy Homes Initiative (NC HHI)

Program Description: One of the by-products of weatherization programs is the positive impact on health, as outlined in the CDC's HI-5 (Health Impact Interventions in 5 years). But unfortunately, some repairs are ineligible for NC WAP and DEC WX funding, leaving important health-related concerns untouched.
The NC Healthy Homes Initiative will provide families with home repairs that are crucial to improving their overall health. Considering most Americans spend nearly 60 percent (pre-COVID) of their time in their homes, the condition of their homes has a significant impact on their health and overall quality of life. As a result, the condition of one's home plays a vital role in our health. Poor quality and inadequate housing contribute to health problems such as chronic diseases and injuries and can have harmful effects on childhood development. Unfortunately, many of North Carolina's families cannot afford the repairs and home safety updates necessary to protect their physical and mental health.
The NC HHI will help fill these gaps by providing funding to North Carolina's most underserved communities to make those additional, health-centered, repairs for families to increase overall health outcomes. The NC HHI will lean on the expertise of the NCCAA, and its dedicated weatherization service providers to administer this program. If approved, funds will be allocated to NC WAP service providers and non-profit agencies equipped to provide health and safety services and energy efficiency services. The allocations will be determined using Census data, and the number of low-income utility customers represented in each geographical area.

Program Objective: The overall goal of NC HHI is to equip weatherization service providers with the resources needed to ensure NC's most vulnerable families are provided with home repairs that have the greatest impact on their overall health. Through this program, NCCAA will work with partner agencies to treat hidden dangers in the homes of NC's most vulnerable families. The health and safety measures offered are intended to address repairs and adverse home conditions that are grossly perpetuating the underlying root causes of many illnesses. The implementation of this program will not only improve the comfort and the overall health of low-income families but will also provide energy savings for these households and utility providers.

By implementing this program, the following shall be completed for qualified program participants:

1. Conduct an energy audit to identify energy efficiency opportunities in the customer's home;
2. Conduct a Healthy Home Assessment
3. Replacement of carpet with hard surface flooring (Entire home or select rooms that would most improve the health of homeowners)
4. Deep cleaning of home since the removal of the carpet could stir up dust/dirt
5. Interior pest control
6. Air purification
7. Asbestos

OFFICIAL COPY
Sep 26 2023

8. Accessibility/fall prevention (Interior)
9. Moisture control (Basement and crawl space sealing)
10. Filter change-out and a pre-determined number of additional replacements
11. Carbon monoxide and smoke detectors (installation and/or a battery change out)
12. Install a comprehensive package of electric conservation measures to increase the home's energy efficiency and lower program participants' energy costs;
13. . Provide one-on-one customer education on energy efficiency techniques and measures; and
14. Educate customers on other applicable energy efficiency programs that are available.

The combined spending on measures installed would be capped at $3,500.
NC HHI Service Provider will assess and perform program services for residents whose household income is at or below 200% of the federal poverty level. Service providers will identify families in need, perform eligible health and safety measures, and post-completion audits to ensure all health and safety measures were properly installed.

A goal of the NC HHI is to create healthier and safer environments for NC families. Service providers will be required to gather information on any family member who may suffer from chronic health conditions. This information will be recorded and tracked. Further, service providers would be asked to record client quotes and testimonials.

NCCAA is proposing four options to participate in the NC Healthy Home Initiative.
State Completed Projects - Submit for NC HHI reimbursements after completion of State Weatherization or Refrigerator Replacement Projects. Service Providers would submit their materials and labor summary report, receipts, and a copy of the State Completed Jobs Report. All service providers would be paid based on eligible measures (including labor and materials, and a flat 7% admin fee would be accessed.)

DEC WX/DEP WX (assuming approval) Projects - Submit for NC HHI reimbursements after completion of DEC or DEP WX Projects. Service Providers would submit their materials and labor summary report, and receipts. All service providers would be paid based on eligible measures (including labor and materials, and a flat 7% admin fee accessed.)

The Helping Home Fund (HHF) Projects - Submit for NC HHI reimbursements after completion of HHF Projects. Service Providers would submit their materials and labor summary report, and receipts. All service providers would be paid based on eligible measures (including labor and materials, and a flat 7% admin fee would be accessed.)

Stand-Alone Projects - Submit for NC HHI fixed cost payments after completion of approved health and safety measures. Service Providers must submit invoices for materials and labor detailing the number of installed materials. All service prov

Target Participants: The NC HHI will target program-eligible households with incomes at or below 200 % percent of the federal poverty guidelines or those receiving cash assistance payments under Work First or Supplemental Security Income. Like other low-income-related programs, this program will prioritize assistance to the elderly, individuals with disabilities, and families with children.

OFFICIAL COPY
Sep 26 2023

Program Administration: "As the lead organization, NCCAA would provide project implementation and overall program oversight. NCCAA will work with Duke Energy and NC WAP service providers to plan, coordinate, and implement a series of comprehensive strategies to address health and safety needs for vulnerable families.

The implementation of this program will allow low-income North Carolinians to experience energy savings, utility bill reductions, and safe, healthy homes. To assist Duke in reducing low-income families' electric burden, and overall health outcomes, NCCAA will focus on high energy users and populations who are most vulnerable.

NC WAP service providers will follow the State's Weatherization Installation Standards or industry-recognized weatherization practices."

Eligibility Criteria: The NC Healthy Home Initiative (NC HHI) will target income-qualified customers state-wide.
Customers will be eligible to participate if:

- They are utility customers with an active account; and
- Household income must be at or below 200% of the Federal Poverty Guidelines.

Each participant would be eligible to receive up to $3,500 in health and safety repairs. All DEC WX, HHF, and NC WAP participants will be auto-enrolled into the NC Healthy Home Initiative. Service Providers will need to submit for payment of qualified measures installed and services performed on the home.

The NC HHI Program will be available to:

- Owner-occupied, single-family residences including condominiums and manufactured homes; mobile homes and
- Renters with owner approval.

The NC HHI program will not perform health and safety services on condemned homes, nor perform services on homes that are for sale. For example, if a home is placed for sale while work is in progress, the Service Provider shall end work at the soonest, safe stopping point, and consider the job complete.

Success Metrics: The overall purpose of the program is to help participants reduce their electric burden, improve their health, and provide KWH savings for Duke.

The NC HHI program will build on Duke's existing weatherization and refrigerator replacement platform by allowing families to participate in all three simultaneously. The implementation of this program will allow agencies to provide deeper and more expansive retrofits. Undoubtedly, access to these three programs will have a profound impact on all low-income utility customers.

Drivers of household energy burden

PHYSICAL

- Inefficient and/or poorly maintained HVAC systems
- The heating system and fuel type
- Poor insulation, leaky roofs, and inadequate air sealing

OFFICIAL COPY
Sep 26 2023

- Inefficient large-scale appliances (e.g., refrigerators, dishwashers) and lighting sources
- Weather extremes that raise the need for heating and cooling

ECONOMIC

- Chronic economic hardship due to persistent low income
- Sudden economic hardship (e.g., severe health event or unemployment)
- Inability or difficulty affording the up-front costs of energy efficiency investments

POLICY

Insufficient or inaccessible policies and programs for bill assistance, weatherization, and energy efficiency for low-income households

Certain utility rate design practices, such as high customer fixed charges, that limit the ability of customers to respond to high bills through energy efficiency or conservation

BEHAVIORAL

- Lack of access to information about bill assistance or energy efficiency programs
- Lack of knowledge about energy conservation measures
- Increased energy use due to age or disability

The implementation of the NC Health Home Initiative would have a significant impact on the well-being of low-income households, utilities, and communities in the following ways.

BENEFIT RECIPIENT: LOW-INCOME PROGRAM RECIPIENTS

OUTCOME: LOWER MONTHLY UTILITY BILLS

- Lower household energy burden and greater disposable income
- Reduced stress and fewer trade-offs between energy and other necessities

- Reduce exposure to risk from utility rate increases

OUTCOME: IMPROVEMENTS IN THE EFFICIENCY OF THE HOUSING STOCK

- Improved health and safety and greater household comfort
- Increased property value, more reliable equipment, and lower
- Greater satisfaction with the building/unit and improved household and neighborhood stability

BENEFIT RECIPIENT: UTILITIES AND RATEPAYERS

OUTCOME: DEMAND-SIDE MANAGEMENT (BOTH GAS AND ELECTRIC)

- Avoided excess costs of increased generation, capacity, and transmission investments
- Contribution toward compliance with energy efficiency portfolio standards and other environmental legislation

OUTCOME: COST SAVINGS TO UTILITIES AND RATEPAYERS

- Reduced arrearages and cost of shutoffs, which lowers utility operating costs
- Improved customer service

OFFICIAL COPY
Sep 26 2023

BENEFIT RECIPIENT: COMMUNITIES

OUTCOME: LOWER ELECTRIC AND GAS DEMAND

- Reduced environmental pollutants and improved public health

OUTCOME: LOWER MONTHLY BILLS DUE TO AVOIDED UTILITY COST

- More money is spent in the local economy due to greater household disposable income, with a higher local multiplier effect
- Poverty alleviation and increased standard of living

OUTCOME: IMPROVEMENTS IN THE EFFICIENCY OF THR HOUSING STOCK

- Local job creation through weatherization programs and energy efficiency providers and trade allies
- Improved quality of life
- Increased property values and preservation of housing stock

Program Partners:

Duke Energy
North Carolina Community Action Association (NCCAA)
North Carolina Weatherization Assistance Service Providers (mostly CACs)
TRC (formerly Lockheed Martin)
North Carolina Weatherization Assistance Program (NCWAP)
NCCAA's current contractor network (HHF, DECWX, and HHI)
Regional Specialty Contractors
Community Development Organizations
Private Weatherization Contractors
Non-profit Agencies
Community Action Agencies (NC's 34-member network)

Additional Information: Based on our current experience as the administrator of the BlueCross and BlueShield Healthy Homes Initiative (HHI), we feel there are no regulatory or statutory barriers to implementing this program. NCCAA has successfully managed and administered the Healthy Home Initiative, since 2018. As of March 1st, 2022, the HHI has provided served over 1224 low-income households and 2133 low-income household members. BlueCross and BlueShield of NC provided NCCAA with a $2M grant in November 2018 to serve 56 rural NC counties. Due to the success of the program outcomes, an additional $1M investment by BCBSNC in April of 2020 to expand to 94 rural counties. The HHI is served by 24 participating community action agencies.

The Healthy Home Initiative Program provides improvements to make homes healthier and safer. This funding is typically leveraged with weatherization funds, or improvements can be made to income-qualified homes that may not receive weatherization services. As of March 1st, 1,224 homes have been impacted and over 2133 household members in 86 NC counties have benefited from this program. In Q4 of 2021, the HHI program completed 148 new projects, and $119K was used to complete these projects. Over 65% of those homes in Q4 had one or more family members who suffer from chronic health conditions.

OFFICIAL COPY
Sep 26 2023

Community Impact: $1,978,395.25 (As of 3.1.2022)
Number of Completed Projects/Homes Served: 1224
Number of Household Members Impacted: 2133 (Seniors: 1009, Adults: 747, Children: 377)
Number of Homeowners Helped: 1207

Health Outcomes
Overall, the program has served over 700 (58%) households that were suffering from one or more household members were suffering from one or more of the following chronic illnesses:

- Diabetes
- COPD
- Asthma
- Musculoskeletal
- Heart Disease
- Cancer
- Epilepsy
- Mental Health
- Alzheimer's
- Arthritis
- Stroke
- Blind

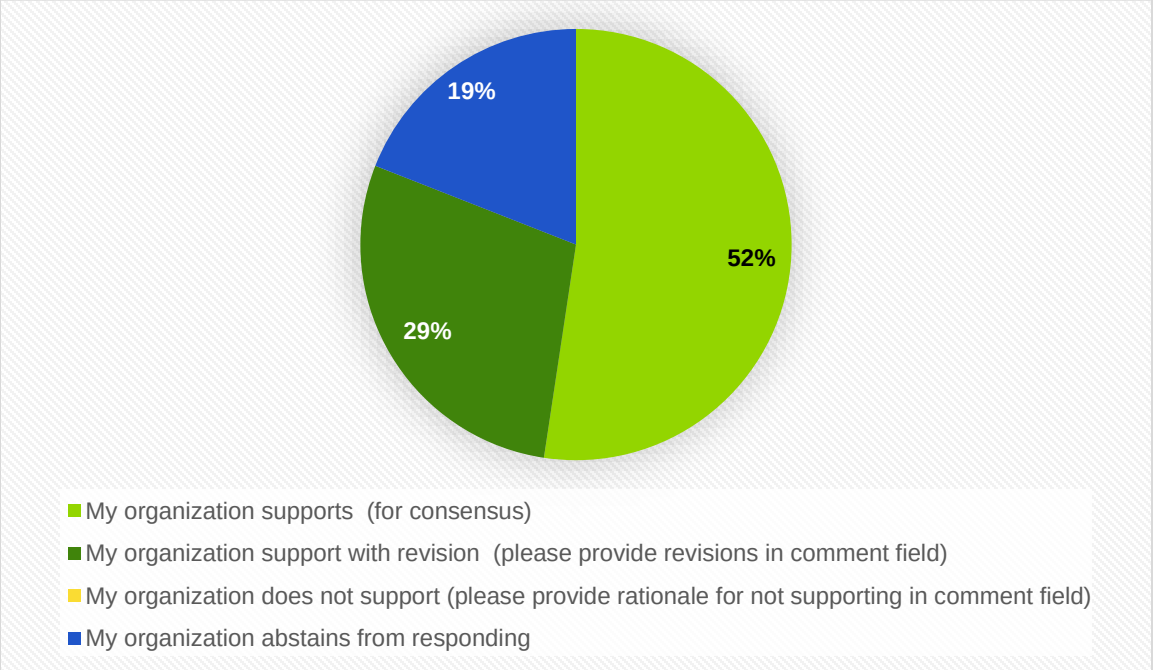
Demographics Served through the BCBC HHI Program

- 50% of households served were African American
- 46% White
- 1% Hispanic
- 2% Native American
- 1% Other (Native American, Asian, and Indian)

OFFICIAL COPY
Sep 26 2023

Proposal 20 - DEP Weatherization Program

Assessment Results:



Breakdown of Results:

Supports:

- Appalachian Voices
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Community Action Association
- North Carolina Housing Coalition
- North Carolina Sustainable Energy Association
- Rowan Helping Ministries
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Vote Solar

Supports with Revision:

- AARP
- Crisis Assistance Ministry
- Duke Energy
- North Carolina Justice Center
- Public Staff of the North Carolina Utilities Commission
- Southern Environmental Law Center (SELC)

OFFICIAL COPY
Sep 26 2023

Does not Support:

- None

Abstains:

- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Dominion
- Nicholas Institute (Duke University)
- North Carolina Dept of Health and Human Services

Comments from Assessment:

"For the same reasons that we support LIAC Program Proposal Number 2, which calls for a DEP Weatherization Program modeled after the DEC Weatherization Program, we also support the substance of this Proposal (No. 20). Even though NCCAA has unmatched experience administering this kind of program (as it does the DEC Weatherization Program, Helping Home Fund, and HHI), it is our understanding that Duke Energy would need to go through an RFP process to identify the program administrator and that it may be premature to assign that role to NCCAA at this time." **– Southern Environmental Law Center (SELC)**

"This is not a suggested revision, it's a comment overall on this as well as the other weatherization related proposal/s all of which we do support. It's also somewhat similar to the concept in #23. We operate in a space at Crisis Assistance Ministry where over 15,000 renting households annually need help with utilities and/or rent (often times it's rent one month and utilities the next month when juggling on a limited income.) Less than 1% are homeowners. Weatherization solutions that are more equitability available for low income families would include more options for rental housing. In the vast majority of apartment complexes there is income segregation (apartments class A, B, C corresponds to income.) Could we work with landlords running low income apartment complexes as the target of weatherization outreach? Certainly many are owned from out of state vendors or equity funds but still there are thousands of complexes owned by local "mom and pop" landlords who could help 200-300 families at one time if they are given an opportunity to receive help weatherizing their units." **– Crisis Assistance Ministry**

"This program should be funded first with DOE weatherization funds and LIHEAP." **– AARP**

"The program administration should be determined by RFQ. Only non-ratepayer funds should be utilized for health and safety work. Ratepayer funds could be used for EE measures and to reduce cost of service." **- Public Staff of the North Carolina Utilities Commission**

"In the statistical analysis, higher winter peak and summer peak usage were associated with a customer being more likely to be in arrears, receive a 24-hour notice, and be disconnected. These results would support reducing high energy use via weatherization." **– Nicholas Institute**

"For the same reasons that we support LIAC Program Proposal Number 2, which calls for a DEP Weatherization Program modeled after the DEC Weatherization Program, we also support the substance of this Proposal (No. 20). Even though NCCAA has unmatched experience administering this kind of program (as it does the DEC Weatherization Program, Helping Home Fund, and HHI), it is our understanding that Duke Energy would need to go through an RFP

OFFICIAL COPY
Sep 26 2023

process to identify the program administrator and that it may be premature to assign that role to NCCAA at this time." **– North Carolina Justice Center**

"The Company plans to file the DEP Income Weatherization Program with the NCUC within the next two weeks." **– Duke Energy**

Program Proposal Information:

Name and Organization: Detrick Clark, The North Carolina Community Action Association

Program Name: The Duke Energy Progress Weatherization Program (DEP WX)

Program Description: The Duke Energy Progress Weatherization Program (DEP WX) is a robust weatherization program designed to assist DEP income-qualified customers by directly installing energy-efficient measures and providing education on energy efficiency. Like the Helping Home Fund, Healthy Home Initiative, and the DEC WX program, the DEP WX Program would lean on the collaboration and expertise of the NCCAA, and its dedicated weatherization service providers network for implementation. If expanded, funds will be distributed to participating Service Providers involved in assisting income-qualified customers with energy efficiency. The DEP WX program would function as a rebate program.

Program Objective: The goal of the DEP WX program is to provide comprehensive weatherization and efficiency measures to the greatest number of customers in the Duke Energy Progress (DEP) service territory. The DEP WX Program will reduce energy consumption for income-qualified customers by directly installing energy [1] efficient measures and providing education on energy efficiency. Whenever possible and cost-effective, homes shall be thoroughly insulated and air sealed, thus achieving the greatest gains in energy conservation and improved comfort.

By implementing this program, the following shall be completed for qualified program participants:

1. Conduct an energy audit to identify energy efficiency opportunities in the customer's home;
2. Install a comprehensive package of electric conservation measures to increase the home's energy efficiency and to lower program participants' energy costs;
3. Replace inefficient refrigerators with ENERGY STAR® refrigerators;
4. Provide one-on-one customer education on energy efficiency techniques and measures; and
5. Educate customers on other applicable energy efficiency programs that are available.

In addition, using Duke Energy's income-qualified weatherization funds:

- Upgrade high-efficiency heat pumps (HEHP) to a minimum of SEER 15 and HSPF 8.2 with an electronically commutated motor (ECM); and

OFFICIAL COPY
Sep 26 2023

- Promote behavioral changes that help program participants more effectively control their energy usage and lower their costs.

Like the Helping Home Fund (HHF), Duke Energy Carolina's Weatherization Program (DEC WX), and the BlueCross and BlueShield of NC Healthy Home Initiative (HHI), this program will utilize independent contractors, and leverage existing community action agencies, and WAP service provider resources to make improvements in eligible homes within Duke's DEP service territory.

Any funding not requested for energy efficiency expenditures by the end of the calendar year will be forfeited.

We are proposing multiple options to participate in the DEP WX Program.

1. State Completed Projects - Submit for DEP WX rebates after completion of State Weatherization or Refrigerator Replacement Projects. Service Providers would submit their materials and labor summary report, refrigerator receipts and a copy of the State Completed Jobs Report. Service Providers would be paid a fixed cost rebate based on eligible measures (including labor and materials.)
2. Stand-Alone Projects - Submit for DEP WX fixed cost payments after completion of approved weatherization measures and/or refrigerator replacement. Service Providers must submit invoices for materials and labor detailing the number of installed materials. Service Providers would be paid a fixed cost payment based on eligible measures (including labor and materials.)
3. HVAC Projects - Payment towards a leveraged project (ie. HARRP) or a stand-alone project for installation of a 15 SEER HP replacement. Eligibility and maximum costs would be identical to the current DEC WX program. Service Providers must submit contractor invoices, and AHRI certificates and indicate any source/amount of leveraged funding. Reimbursement/payments for HVACs would not be supported if any systems were paid using HARRP or other program dollars. The HVAC portion of this project would not be considered a rebate measure. Service Providers would receive an agreed-upon administrative fee based on the total project cost. The admin fee should be comparable to the state NC WAP admin fee. Once determined this administrative fee will be automatically calculated and added to project payments.

Target Participants: The DEP WX program will target DEP eligible households with incomes at or below 200 percent of the federal poverty guidelines or those receiving cash assistance payments under Work First or Supplemental Security Income. Like DEC WX this program will prioritize assistance to the elderly, individuals with disabilities, and families with children.

Program Administration: In this proposal, the North Carolina Community Action Association is the lead organization providing project implementation and overall program oversight. NCCAA will work with Duke Energy Progress, and NC WAP service providers to plan, coordinate, and implement a series of comprehensive strategies to address weatherization needs for struggling families.
The implementation of this program will allow low-income North Carolinians to experience energy savings, utility bill reductions, and safe, healthy homes. To assist Duke Energy Progress in reducing low-income families' electric burden, and overall health outcomes, NCCAA will focus on high energy users and populations that are most vulnerable.

OFFICIAL COPY
Sep 26 2023

NC WAP service providers will follow the State's Weatherization Installation Standards or industry-recognized weatherization practices as applicable.

Eligibility Criteria: The DEP WX Program will target income-qualified customers located in DEP NC territory.

Customers will be eligible to participate if:

- They are a DEP customer with an active account; and
- Household income must be at or below 200% of the Federal Poverty Guidelines. Service Providers will need to submit for payment of qualified measures installed and services performed on the home.

The DEP WX Program will be available to:

- Owner-occupied, single-family residences including condominiums and manufactured homes; and
- Renters with owner approval for refrigerator replacement only.
  The DEP WX program will not perform weatherization services on condemned homes, nor perform services on homes that are for sale. For example, if a home is placed for sale while work is in progress, the Service Provider shall end the work at the soonest, safe stopping point, and consider the job complete.

Success Metrics: The overall purpose of the DEP WX program is to help participants reduce their electric burden, improve health outcomes, and provide KWH savings for Duke. All the services will be provided at no cost to the customer.
Through the DEP WX (DEC WX) expansion families will have access to two of the three existing EE programs, Weatherization and Refrigerator Replacement. Access to these two programs will have a considerable impact on LIEAP and CIP customers' electric burdens. If expanded, NCCAA will work with Duke to increase the number of customers served, the number of measures installed, and provide KWH reductions.

HVAC Replacement HVAC Replacement up to $ 6,000.00

WX Refrigerator Replacement

- Refrigerator Replacement 15 cu ft
- Refrigerator Replacement 18 cu ft
- Refrigerator Replacement 21 cu ft

WX Tier 1

- Air Sealing
- Clean and/or Replace Dryer Vent
- Door Weatherstripping
- Pipe Insulation - 2-5' sections
- Tank Insulation
- Heating System Tune-Up
- Heating System Repair

OFFICIAL COPY
Sep 26 2023

- LED 5W Chandelier
- LED 5W Generic
- LED 5W Globe
- LED 9W
- LED A-Line - any wattage except 9W
- Low Flow Aerators - max 3
- Low Flow Showerheads - max 2
- Water Heater Temp Adjustment

WX Tier 2

- Attic Insulation - Cellulose, Blown - R-30
- Attic Insulation - Cellulose, Blown - R-38I
- Attic Insulation - Fiberglass, Blown - R-30
- Attic Insulation - Fiberglass, Blown - R-38
- Belly Fiberglass Loose
- Duct Insulation
- Duct Sealing
- Floor Insulation - Fiberglass, Batts - R19
- Knee Wall Insulation
- Manufactured Home Roof Cavity
- Roof Cool Seal - Mobile Home
- Wall Insulation - Cellulose. Blown - R13
- Wall Insulation - Fiberglass. Blown - R13

If given the opportunity NCCAA would like to see the following enhancements added to this program and the DEC WX program.

1. Secure long-term funding for Health and Safety funds to ensure customers can continue to receive needed Weatherization services.
2. . Explore opportunities to expand services and include additional measures as identified.
3. Earmark marketing dollars so agencies can better market the services and program.
4. Re-evaluate the rebate measures to ensure they are parallel with true cost/inflation.
5. Access to more customer-related data (Acxiom)

For example, to serve more customers and increase overall program outcomes NCCAA, would like to work with Duke to better identify high energy users and DEP program eligible customers. The CAA network feels earmarking a percentage of the overall budget to assist agencies with marketing the program would help to increase program visibility and outcomes.
Ideally, NCCAA would like to gain access to Duke's Acxiom data and other customer and neighborhood-level data to better identify high concentrated DEP income eligible areas. This is a model that is currently being used for Duke's Neighborhood Energy Saver Program (NES2.0). If DEC WX and DEP WX agencies were equipped with the same data, it would allow them to better direct their limited resources and ramp up the reach of the program.

Program Partners:

OFFICIAL COPY
Sep 26 2023

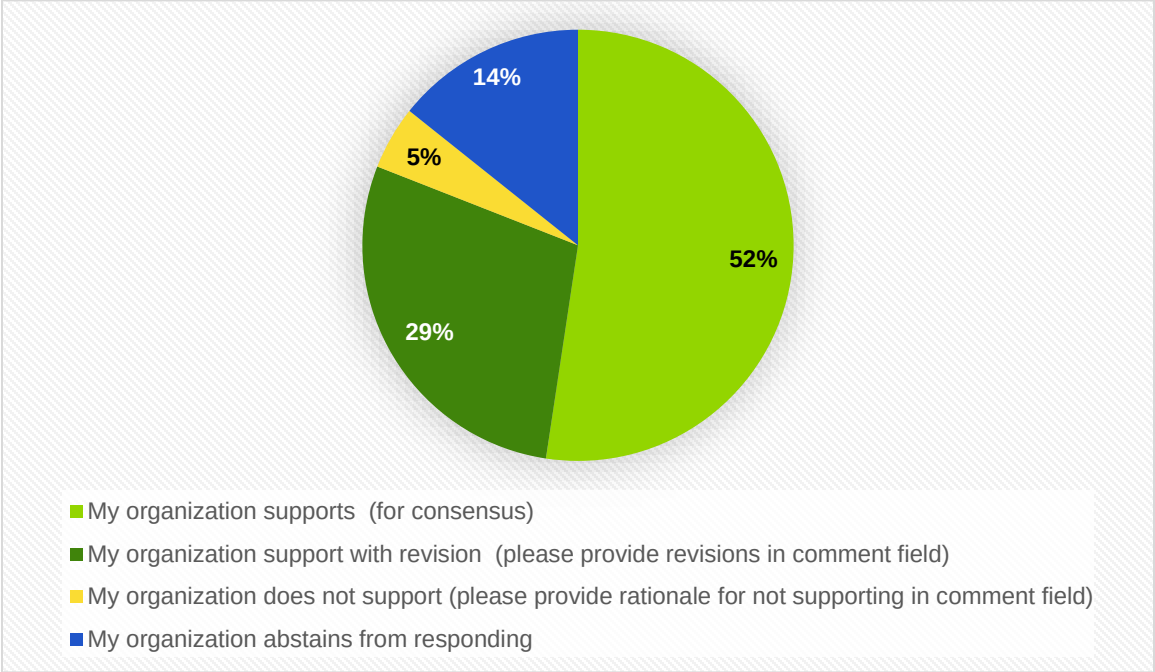
Duke Energy Progress
North Carolina Community Action Association (NCCAA)
North Carolina Weatherization Assistance Service Providers (mostly CACs)
TRC (formerly Lockheed Martin)
North Carolina Weatherization Assistance Program (NCWAP)
NCCAA's current contractor network (HHF, DECWX, and HHI)
Historically Underutilized Businesses (HUB)
Minority and Women-Owned Businesses (MWBE)
Veteran Owned Small Businesses
Regional Specialty Contractors
Community Development Organizations
Private Weatherization Contractors
Non-profit Agencies
Community Action Agencies (NC's 34-member network)

Additional Information: Based on our current experience as the administrator of the DEC WX program and the North Carolina Utility Commissions' support of that work, we feel there are no regulatory or statutory barriers to implementing a similar program in the DEP service territory. Over the past several months, Duke, NCCAA, and TRC have had a few informal discussions about a possible program filling. NCCAA and Duke have discussed the launching of this program and some of the program recommendations identified in the Success Measures section of this proposal, amongst other program enhancements tools and processes.
NCCAA has successfully managed and administered the Duke Energy Carolinas (DEC WX) Weatherization program since 2015. As of March 4th, 2022, the DEC WX program has provided low-income customers with more than $13 million in direct weatherization assistance and has served more than 4,200 families with over 5,100 weatherization-related measures.
As noted, by Duke's self-evaluation of the DEC WX program the average cost per DEC participant in 2019 was $3,486.89 and respectively $3,405.21 in 2020. In 2019, families that participated in the DEC WX program experienced significant energy savings. The program can deliver anywhere from a 241-kWh to a 3774-kWh reduction for participants depending on the measures the customer qualifies for and receives. In 2019, on average families experienced 1994 kWh WERP, 805 kWh RRP in savings, and in 2020 families on average experienced 1909 kWh WERP, 805 kWh RRP in savings.
According to Duke's recent analysis, there are approximately 780,000 DEC low-income program eligible customers that can benefit from the program. The number of eligible participants reflects the current approximate number of customers in the respective service territory that have been identified as Low Income (200% of FPL). Expanding the DEC WX program into the DEP service territory will be an added resource to approximately 350,000 to 375,000 low-income DEP customers.

OFFICIAL COPY
Sep 26 2023

Proposal 21 - NC Low-Income Energy Major Home Repair

Assessment Results:



Breakdown of Results:

Supports:

- Appalachian Voices
- Crisis Assistance Ministry
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Community Action Association
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- Rowan Helping Ministries
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Vote Solar

Supports with Revision:

- AARP
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Public Staff of the North Carolina Utilities Commission
- Southern Alliance for Clean Energy (SACE)

OFFICIAL COPY
Sep 26 2023

- Southern Environmental Law Center (SELC)

Does not Support:

- Duke Energy

Abstains:

- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Dominion
- Nicholas Institute (Duke University)

Comments from Assessment:

"As we said with respect to No. 19, this is a critically needed program and builds on NCCAA's valuable experiences. But it is not clear from the proposal where the funds would come from for this Major Home Repair program. Ratepayer funds have historically been limited to energy efficiency related upgrades. Ideally, federal or state funds could support an initiative like this to provide the repairs necessary to make them ready for EE upgrades." **– Southern Environmental Law Center (SELC)**

"We support DOE or infrastructure funds from the Federal government be used for a pilot program." **– AARP**

"The program administration should be determined by RFQ. Only non-ratepayer funds should be utilized for health and safety work. Ratepayer funds could be used for EE measures and to reduce cost of service." - **Public Staff of the North Carolina Utilities Commission**

"In the statistical analysis, higher winter peak and summer peak usage were associated with a customer being more likely to be in arrears, receive a 24-hour notice, and be disconnected. These results would support reducing high energy use and this proposal would facilitate that process by providing for repairs and reducing deferrals from weatherization assistance." **– Nicholas Institute**

"As we said with respect to No. 19, this is a critically needed program and builds on NCCAA's valuable experiences. But it is not clear from the proposal where the funds would come from for this Major Home Repair program. Ratepayer funds have historically been limited to energy efficiency related upgrades. Ideally, federal or state funds could support an initiative like this to provide the repairs necessary to make them ready for EE upgrades." **– North Carolina Justice Center**

"Similar to our response to proposal 19, we support the program but are interested in more discussion about how to fund it since that does not seem to have been defined." **– North Carolina Sustainable Energy Association**

"We strongly support the establishment of consistent funding for health, safety, and incidental repairs to supplement federal, state, and ratepayer funds for energy efficiency. We know there are potential challenges with regard to use of ratepayer funds for these purposes, but are committed to working through the associated regulatory issues and/or assist in seeking additional funding from other sources." **– Southern Alliance for Clean Energy (SACE)**

OFFICIAL COPY
Sep 26 2023

"The Companies do not support this proposal as it doesn't have a specific time to the scope of identifying opportunities to address affordability for low-income customers." **– Duke Energy**

Program Proposal Information:

Name and Organization: Detrick Clark, The North Carolina Community Action Association

Program Name: The NC Low-Income Energy Major Home Repair Program

Program Description: The NC Low-Income Energy Major Home Repair Program is a pre-weatherization deferral assistance program designed to help DEP and DEC program eligible families with costly home repairs and other health and safety issues that have previously prevented them from receiving assistance from weatherization assistance program service providers.

Annually, hundreds of families are added to the NCWAP deferral list because their homes were deemed fiscally and physically inadequate. Since 2018, over 1,100 low-income families have been placed on the NC Weatherization Assistance Program deferral list because the condition of their homes rendered the delivery of weatherization services either unsafe or ineffective. Because the NCWAP program prioritizes families with children and those that are either elderly, disabled or high-energy users, deferrals present an additional hardship for these families who are already struggling to simply make ends meet.

Reasons for deferrals vary, but some common causes include:

- The client has known health conditions that prohibit the installation of insulation and/or other weatherization materials;
- The building structure or its mechanical systems, including electrical and plumbing, are in such a state of disrepair that they cannot be repaired immediately;
- The house has sewage or other sanitary problems that would further endanger the client and weatherization installers if weatherization work is performed;
- Home repair is beyond the scope of reasonable cost justification;
- The house has been condemned or electrical, heating, plumbing, or other equipment has been "red-tagged" by local or state building officials or utilities;
- Moisture problems are so severe that they cannot be resolved;
- Dangerous conditions cannot be reasonably resolved due to high carbon monoxide levels and combustion appliances;
- The extent and condition of lead-based paint in the house would potentially create further health and safety hazards if disturbed.

In this program proposal the North Carolina Community Action Association will plan, coordinate, and implement a series of comprehensive strategies to address major home repairs currently preventing low-income DEP and DEC customers from experiencing energy savings, utility bill reductions, and safe, healthy homes. Due to the NC Low-Income Energy Major Home Repair Program, being deferred will no longer mean indefinitely postponing weatherization assistance.

Program Objective: The Objective of the NC Low-Income Energy Major Home Repair Program is to address a list of high-priority repairs preventing low-income DEP and DEC customers from

OFFICIAL COPY
Sep 26 2023

utilizing weatherization services. The goal for this deferral prevention program is to generate a robust pipeline of newly eligible clients for NCWAP Weatherization agencies to serve and to reduce the number of homes that are deferred each year.

Only measures that are necessary to make a home eligible for the NCWAP Program shall be provided. This strategy will enable the program to provide major repairs to the greatest number of customers while also decreasing the number of ineligible homes and transitioning these customers to the active NCWAP waitlist. Once energy efficiency measures are installed families may also experience the nonenergy benefits of having more disposable income and improved overall health outcomes.

Like the Helping Home Fund (HHF), Duke Energy Carolina's Weatherization Program (DECWX), and the BlueCross and BlueShield of NC Healthy Home Initiative (HHI), this program will utilize licensed independent contractors, and leverage existing community action agencies, and WAP service provider resources to make improvements in eligible homes within Duke's DEP and DEC service territories.

By implementing this program, the following shall be completed for qualified program participants:

1. Conduct a Major Repair Audit to identify major repairs and other energy efficiency opportunities.
2. Install a comprehensive package of Major Repair Measures preventing the home from being weatherized through the NCWAP program that includes items such as: (1) Installing and/or repairing non-functional HVAC units; (2) completing roof repairs and replacements; (3) addressing structural issues (floors/ceiling repairs/replacements); (4) mitigating mold/moisture issues; (5) fixing major plumbing, drainage, gutters, septic/sewage; and (6) fixing major electrical issues, including knob and tube wiring removal and replacement.
3. Subcontractors shall provide one-on-one customer education on energy efficiency techniques and measures while conducting necessary repairs.
4. NCCAA will promote information to help program participants to better understand their energy usage and ways they can reduce their household energy consumption. NCCAA will achieve this objective by providing participants with materials such as, but not limited to, flyers, one-pagers, refrigerator magnets, and other informational materials.
5. Agencies will inform participants of other applicable energy efficiency programs for which they may be eligible such as DEC WX, the Healthy Home Initiative, and the Helping Home Fund.

Target Participants: This program will target deferred NC WAP eligible households with incomes at or below 200 percent of the federal poverty guidelines or those receiving cash assistance payments under Work First or Supplemental Security Income. Like NC WAP this program will prioritize assistance to the elderly, individuals with disabilities, and families with children.

Again, clients are eligible if they have met all the NC WAP guidelines and they have been denied NC WAP assistance for one or more health or safety reasons. Service providers will use the deferral data from databases such as AR4CA as its reference guide to identify participants that meet the program's eligibility criteria within a feasibly specific timeframe.

OFFICIAL COPY
Sep 26 2023

Program Administration In this proposal, the North Carolina Community Action Association is the lead agency providing overall project and program implementation and oversight. NCCAA will plan, coordinate, and implement a series of comprehensive strategies to address major home repairs currently preventing low-income North Carolinians from experiencing energy savings, utility bill reductions, and safe, healthy homes. To assist Duke with reducing low-income families' electric burden, and increasing health outcomes, NCCAA will focus solely on clients that are currently on the NC WAP deferral list. Due to the NC Low-Income Energy Major Home Repair Program, being deferred will no longer mean indefinitely postponing weatherization assistance for NC's most vulnerable.

Eligibility Criteria: Customers are eligible to participate in this program if they meet all the following criteria:

1. The customer is a North Carolina resident; and
2. The customer is currently on the NC WAP Deferral List; and
3. The customer resides in a tenant-occupied or owner-occupied home; and
4. That home is not for sale.

NCCAA will work with the NC DEQ, NC WAP, and community action agencies to identify program-eligible clients. Clients are eligible if they have met all the NC WAP guidelines and they have been denied NC WAP assistance for one or more health or safety reasons. NCCAA will use the deferral data from databases such as AR4CA as its reference guide to identify participants that meet the program's eligibility criteria.

Success Metrics: If the program is successful, the current deferral list will decrease over time, and the NC WAP pipeline and output will increase. The program will also help participants reduce their electric burdens and help NC WAP service providers to fulfill their state weatherization contracts. As agencies can fulfill their state contracts their budgets will increase allowing more North Carolinians to benefit from weatherization.
This program will provide the following measures:

A. Roof Repair or Replacements
B. Structural Issues (Floors and/or Ceiling)
C. Control or Remediation of Mold/Moisture
D. Major Plumbing, Drainage, Gutter, Septic, and Sewer issues

Program Partners: North Carolina Weatherization Assistance Service Providers (mostly CACs)
North Carolina Weatherization Assistance Program (NCWAP)
NCCAA's current contractor network (HHF, DECWX, and HHI)
North Carolina Department of Environmental Quality (DEQ)
North Carolina Community Action Association (NCCAA)
Community Action Agencies (NC's 34-member network)
Historically Underutilized Businesses (HUB)
Minority and Women-Owned Businesses (MWBE)
Veteran Owned Small Businesses
Regional Specialty Contractors
Community Development Organizations
Private Weatherization Contractors
Non-profit Agencies

OFFICIAL COPY
Sep 26 2023

Additional Information: NCCAA has launched a comparable pilot program in conjunction with the NC DEQ, NCWAP, and community action agencies to assist 120-180 low-income households with project costs ranging between a few hundred dollars to several thousand dollars. Contractors will access all projects on a case-by-case basis to determine what major repairs are needed to bring homes up to NCWAP “weatherization ready” standards. All work will be pre-approved by NCCAA before contractors begin home improvements. This requirement will ensure the measures being addressed are fiscally appropriate and in line with the scope of the project.

The NCCAA Major Repair Program will achieve this work through a two-phase process that considers both project resources and community economic well-being. The NCCAA Major Repair program has the latitude to offer major repair services to all 100 NC counties. However, in Phase I of our launch we will place a heavy emphasis on 60 of North Carolina’s 100 NC counties. Through this community economic well-being ranking, The NCCAA Major Repair Program will look to serve some of NC’s most distressed communities by focusing over 80% of its efforts in tier 1 and tier 2 designated counties. For the remaining 20% of its campaign in Tier 3 counties, efforts would be focused on key low-income areas such as low-income census blocks.

OFFICIAL COPY
Sep 26 2023

~~Proposal 22 - Customer Affordability Program~~ (see P24)

Name and Organization: Brad Harris. Duke Energy Carolinas, LLC. ("DEC") and Duke Energy Progress, LLC. ("DEP") (collectively "the Companies").

Program Name: Customer Affordability Program (CAP). DEC and DEP would have separate programs with separate funding from the respective ratepayers. However, the program design would be the same for DEC and DEP. For ease, CAP is referred to singularly throughout this document.

Program Description: CAP is a monthly credit applied directly to the customer's bill. The customer would receive the credit for 12 months. Eligible customers would be automatically enrolled in the program via a list given to the Companies from eligible state agencies that are already qualifying people for government assistance programs. Customers would be eligible for CAP for a predetermined amount of time and will require recertification after this timeframe from a CAP participating organization. [1]

Program Objective: The Companies recognize assisting customers with affordability challenges may come through products and services designed to reduce energy usage and provide billing assistance. CAP provides bill credits to eligible customers automatically as they qualify for other eligible assistance. The opportunities to identify and assist low-income customers exist when customers apply for services offered by agencies administering income-qualified programs or when customers contact Duke Energy's customer service center for assistance. Customers who are enrolled in CAP will be referred to Duke Energy's Residential Income-Qualified Energy Efficiency - Weatherization and Equipment Replacement Program to receive weatherization services. CAP will allow the Companies to refer income-qualified customers to receive weatherization services in addition to the bill credit designed to lower a customer's bill via a flat, monthly credit.

Target Participants: The analysis conducted on DEC and DEP NC residential customers shows customers who receive Low-Income Energy Assistance Program (LIEAP) and Crisis Intervention Program (CIP) assistance use more electricity in the winter months and more usage per square foot in comparison to other customers. LIEAP and CIP recipients are more likely to have arrears and experience disconnection for non-pay. For this reason, the target participants for the CAP initially will be LIEAP and CIP recipients. Upon successfully implementing the program, the Companies will evaluate opportunities to expand CAP to include recipients of other income-qualified assistance programs.

Program Administration The North Carolina Department of Health and Human Services (DHHS) administers LIEAP and CIP. The Companies want to leverage that existing work with DHHS to receive a list of customers for assistance programs identified as CAP eligible (i.e., LIEAP and CIP). The Companies will work with DHHS to discuss requirements for participating customers to receive the CAP bill credit. The Companies would auto-enroll eligible customers

[1] The majority of government assistance programs require annual recertification of recipients. Because of the annual recertification process, customers can be automatically recertified for CAP through recertification in the other government assistance programs.

OFFICIAL COPY
Sep 26 2023

identified by the state agency and update the information directly in the billing system. The Companies would also be responsible for tracking program success.

Eligibility Criteria: Any customer that receives assistance from one of the CAP eligible programs, i.e., LIEAP or CIP. The Companies will explore the feasibility of enrolling customers who would have qualified for LIEAP or CIP but did not receive assistance due to funding running out before enrollment was closed for the year.

Success Metrics: Metrics could include timely enrollment of eligible customers, tracking of program information, customer satisfaction with the program, and reduce customer's electricity burden.

Program Partners: Qualifying state agencies, such as NC DHHS

Additional Information: CAP could be combined with energy efficiency (EE) program and weatherization program awareness and education campaigns. Increasing access and knowledge of EE programs, in addition to direct bill assistance, is a win-win for all involved. In the analytics presented in the Low-Income Affordability Collaborative (LIAC) showed the LIEAP/CIP customers use more electricity than all other income groups in nearly all segments of customers studied. Additionally, the average LIEAP/CIP customers were disconnected for non-payment ("DNP") over four times more than the total North Carolina customers (16.3 percent of LIEAP/CIP customers were DNP compared to 3.9 percent for all NC customers). Reducing the amount of kWh used reduces the total bill. Reducing the total bill further with the CAP credit can greatly impact the lives of LIEAP/CIP customers. As previously mentioned, the Companies are open to exploring expanding the list of CAP eligible government assistance programs but believes starting with LIEAP/CIP customers can have the biggest impact, even though only two percent of North Carolina customers received LIEAP/CIP assistance in the LIAC review period.

There are alternative options for the CAP design. The following alternatives are not mutually exclusive and can be mixed and matched.

1. Instead of a flat credit for 12 months, customers could receive double the credit amount for six months when customers experience an increased heating or cooling cost for their homes. Customers would receive the same annual credit level, and it would just be a matter of how and when distributed. The LIAC analysis revealed LIEAP/CIP customers' bills were highest in the winter months (December through February), followed by the summer months (June through September).

2. If the eligible agency has the ability, or could do so at low cost, the Companies will request the agency denote CAP eligible customers by various federal poverty level (FPL) groups. This would enable the Companies to potentially provide a higher level of assistance to customers whose need is more significant based on the customer's federal poverty level. For example, the CAP credit could be higher for customers in the 0-50 percent FPL group compared to customers in the 101-150 percent FPL group. The Companies will continue to explore this option with eligible agencies.

3. An arrears management component could be added. Nearly 60 percent of LIEAP/CIP customers met the arrears definition used in the LIAC analytics. LIEAP/CIP customers had a past due amount that ranged between $120 to $180. Other arrears management programs the Companies are aware of typically forgive a portion of the customer's

OFFICIAL COPY

Sep 26 2023

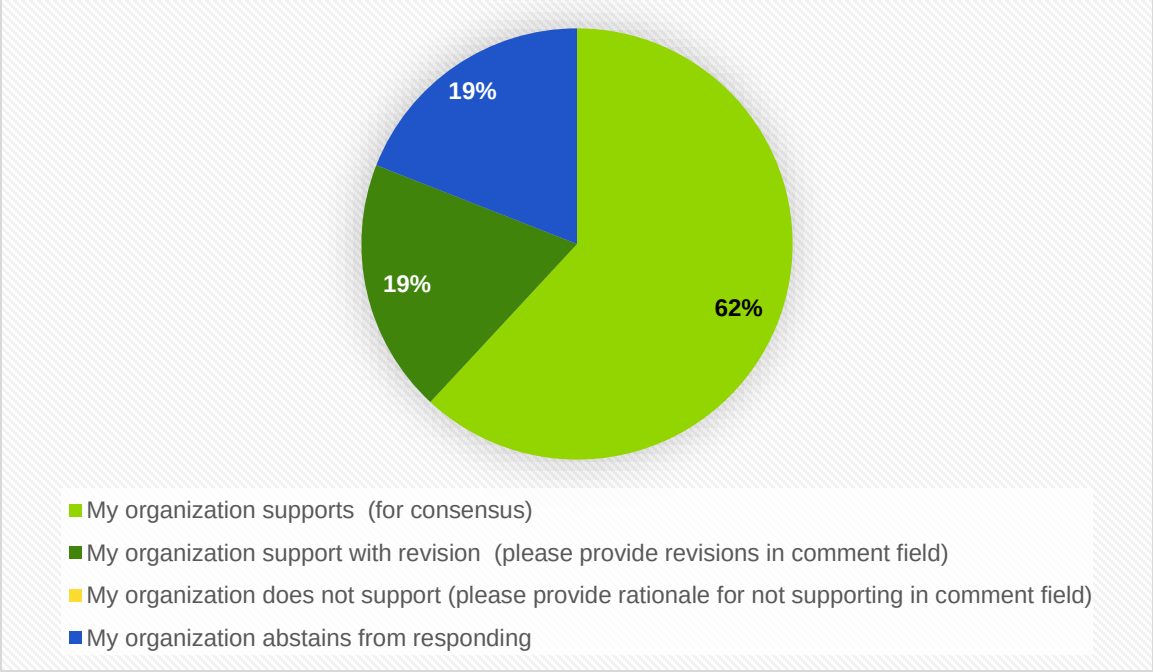
balance if the customer makes a monthly payment on-time and in-full. For example, a customer's arrears balance may be forgiven in full if the customer makes on-time and in-full payments for 12 months. The arrears management component would be in addition to the monthly CAP credit.

OFFICIAL COPY
Sep 26 2023

Proposal 23 - Smart $aver Low Income Multi-Family Retrofit (P08 + P18)

Combination of Proposal 08 and Proposal 18

Assessment Results:



Breakdown of Results:

Supports:

- Appalachian Voices
- Crisis Assistance Ministry
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Dept of Health and Human Services
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

Supports with Revision:

OFFICIAL COPY
Sep 26 2023

- AARP
- Duke Energy
- Public Staff of the North Carolina Utilities Commission
- Rowan Helping Ministries

Does not Support:

- None

Abstains:

- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)
- Dominion
- Nicholas Institute (Duke University)
- North Carolina Community Action Association

Comments from Assessment:

"We support DOE or infrastructure funds from the Federal government be used for a pilot program." **– AARP**

"Ratepayer funds could only be used only for the EE components; non-ratepayer funds could be leverage for non-EE components of this proposal." **- Public Staff of the North Carolina Utilities Commission**

"The utility should not be administering the program or leveraging funds. Seems like this should fall under a community action agency or non-profit." **– Rowan Helping Ministries**

"The findings of the statistical analysis support focusing on reducing energy consumption in multi-family housing, particularly multi-family rental housing." **– Nicholas Institute**

"The low-income multifamily segment of the Duke Energy customer base is an area of opportunity to assist the income qualified tenants. Duke has been working with a group of interested stakeholders on a investigating a low-income multifamily pilot program and thru that work has identified challenges including, but not limited to the following: • These income qualified customers maybe receiving overlapping efficiency measures through the Neighborhood Energy Saver Program • There is an existing direct install multifamily program in the Duke Energy program portfolio that can serve all customers, so there is potential confusion for this program. Are these programs related or operated separately while serving the same multifamily dwellings? • There isn't a intake process for determining low-income eligibility directly through Duke Energy right now. The information is sensitive and time constrained. Is the intent to use other low-income entities to determine eligibility? • The weatherization agencies also can serve this segment of the population, what is the best way to coordinate services between the programs? • This program seems to be targeted and reported through the tenant meter, since the property owner must agree to the upgrades, what is the proposed coordination with tenant and property owner? • Does the landlord or property owner have to agree not increase rent for some period of time? • How will energy savings be captured when the measure might include shared space like attic insulation? • Is fully up to Duke Energy to determine the best method, process and cost to implement the upgrades? Would Duke be expected to submit or assist with grant applications? At what point would the NCUC evaluate the program for best practices by project or at/after EM&V? • How often are he income qualification criteria updated?

OFFICIAL COPY
Sep 26 2023

Is there a single version of the truth to reference? • Why are there 2 different eligibility criteria for 1-4 units multifamily v. single family? Are the eligible single-family units required to be part of the larger complex of buildings?

The Company will continue to work with the rate-case settlement stakeholder group to work through these challenges in attempts to develop a feasible pilot as there clearly is an opportunity to assist customers, but need to better understand how it fits in the portfolio and get more granular on the specifics of the pilot that Duke will oversee." **– Duke Energy**

Program Proposal Information:

Name and Organization: Christina Cress, Bailey & Dixon, LLP with NCJC and other Stakeholders

Program Name: Smart $aver Low Income Multi-Family Retrofit Program (Smart $aver LIMP)

Program Description: Smart $aver LIMP projects would involve efficiency upgrades for buildings with currently high energy consumption, specifically for lighting, appliances, weatherization, heating systems, controls, domestic hot water, and HVAC/mechanical systems. Eligible measures under the LIMRP would be directly installed at no charge to the low-income customer, and would include:

1. comprehensive energy assessment, including customer education;
2. weatherization, including wall, attic, floor, and pipe and duct insulation, as well as air sealing (caulking, weather stripping, door and window hardware, window parting beads and stops);
3. programmable thermostats;
4. blower door analysis;
5. heating system tune-up, repair, and replacement;
6. low-flow showerheads and faucet aerators;
7. minor building repairs, including glass replacement and adjustment of window meeting rails;
8. replacement of inefficient appliances, including refrigerators and clothes washers;
9. installation of compact fluorescent lamps (CFLs) and LEDs;
10. health and safety measures such as wire inspection, ventilation, and the DOE lead-free protocol; and
11. multi-family-building-specific measures, such as common area lighting fixtures, HVAC motors and controls and heating systems.

Additional Stakeholder support for this proposal notes the following:

Various regulations commonly drive utility energy efficiency programs aimed towards multifamily housing to take a fragmented approach in providing services. Multifamily tenants who are income-eligible may receive no-cost efficiency measures that are applicable only to their units, such as efficient lighting, but may not be eligible for incentives or measures that are tied to the property owners' utility bills, which are commonly on commercial rates. The incentives available through standard commercial programs may not be sufficient to make efficiency measures

OFFICIAL COPY
Sep 26 2023

affordable – and clearly operating costs play a key role in determining the costs of operating multifamily housing. The result is that comprehensive efficiency projects in affordable multifamily housing are unlikely to occur, thus failing to make a significant dent in the energy costs for these buildings. To overcome these obstacles, this program would provide a one-stop shop approach where a single program point of contact would work with property owners to facilitate comprehensive efficiency projects that address both in-unit (residential) and common area/common system (commercial) efficiency measures. Rather than treating the commercially metered elements of affordable multifamily housing as a business, the program would offer enhanced incentives on the basis of the income-eligible residents, thus helping reduce the operating costs for the building as well as tenants' bills.

Program Objective: To provide cost-effective energy efficiency improvements to multi-family buildings, including nonprofit and public housing authorities. For-profit entities are eligible to apply for funds to improve the energy usage of their buildings.

Target Participants: 1-4 unit residential buildings where at least 50% of the units are occupied by low-income residents earning at or below 60% of area median income and are high energy users. For single-family dwellings, 50% of occupants at or below 60% of the state median income level.

Program Administration: The utility would provide the primary administrative and functional roles. Potentially a third-party administrator or contractor could oversee the day-to-day operations, including scheduling, assessing and installing eligible measures in income-eligible customers' homes and buildings. The utility (or an entity acting on its behalf) would also be responsible for leveraging other federal and state funding sources to provide the most comprehensive energy efficiency projects possible. The NCUC would have oversight authority to review multi-family projects and ensure utility compliance with best practices, including ensuring cost-effectiveness and managing overall program costs. The NCUC would also have additional oversight authority through the cost-recovery regulatory mechanism set forth in G.S. 62-133.9

Eligibility Criteria: 1-4 unit residential buildings where at least 50% of the units are occupied by low-income residents earning at or below 60% of area median income and are high energy users. For single-family dwellings, 50% of occupants at or below 60% of the state median income level.

Success Metrics: Net Annual Savings (MWh); Net Lifetime Savings (MWh); # of customers participating; CCE ($ per lifetime kWh); annual peak demand savings (summer/winter kW).
Proposal 18 - Smart $aver Low Income Multi-Family Retrofit

Program Partners: U.S. Department of Energy; U.S. Department of Health and Human Services; North Carolina Department of Health and Human Services; Building Performance Institute (BPI); North American Technician Excellence (NATE)

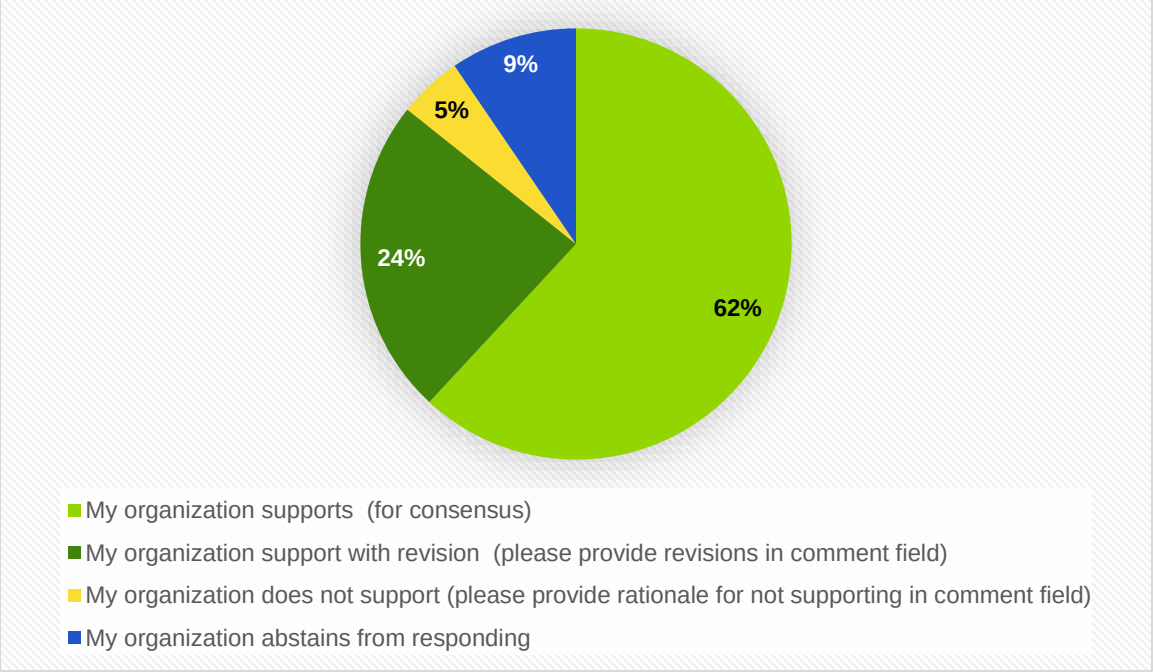
Additional Information: This program has been successfully implemented in Massachusetts and has received tons of accolades as being an "exemplary" energy efficiency program.

OFFICIAL COPY
Sep 26 2023

Proposal 24 - Customer Affordability Program "CAP" (P09 + P22)

Combination of Proposal 09 and Proposal 22

Assessment Results:



Breakdown of Results:

Supports:

- Appalachian Voices
- Crisis Assistance Ministry
- Duke Energy
- Legal Aid of North Carolina
- National Association for the Advancement of Colored People (NAACP)
- North Carolina Housing Coalition
- North Carolina Justice Center
- North Carolina Sustainable Energy Association
- Sierra Club
- Southeast Energy Efficiency Alliance (SEEA)
- Southern Alliance for Clean Energy (SACE)
- Southern Environmental Law Center (SELC)
- Vote Solar

Supports with Revision:

OFFICIAL COPY
Sep 26 2023

- AARP
- North Carolina Community Action Association
- North Carolina Dept of Health and Human Services
- Public Staff of the North Carolina Utilities Commission
- Rowan Helping Ministries

Does not Support:

- Carolina Industrial Groups for Fair Utility Rates (CIGFUR)

Abstains:

- Dominion
- Nicholas Institute (Duke University)

Comments from Assessment:

"AARP supports such comprehensive and coordinated measures to help low-income customers pay their bills and supports the idea conceptually. We especially like the auto enrollment feature. We are interested to ensure that the program can be readily understood by consumers and can be administered without undue complexity. We would like more information on the complexities created by having three different benefit tiers. A pilot program should be used to test the viability of this new idea." **– AARP**

"This program is supported to the extent that it is based upon cost of service principles. Participation in applicable EE programs should be required instead of 'highly suggested.'" **- Public Staff of the North Carolina Utilities Commission**

"In regards to the Tiered approach, DHHS does not currently capture the data necessary to determine the FPL levels discussed in this proposal. For CIP, LIEAP, LIHWAP, SNAP, and Medicaid, a recipient's income eligibility is determined by whether they fall under a certain FPL but what percentage they fall into is not recorded. This could potentially change in the future; however, due to the amount of work that is ongoing with our NC FAST team on making changes to our system that take priority, it is unclear as to when our team would have availability to make these upgrades to capture this data." - **North Carolina Dept of Health and Human Services**

"Violates cost-causation principles to recover costs from all classes of customers. Costs should be contained to residential class of customers. This proposed interclass cross-subsidization is not consistent with existing NC law, in particular H951." **– Carolina Industrial Groups for Fair Utility Rates (CIGFUR)**

"The results of the analysis support efforts that would reduce electric burden for households." **– Nicholas Institute**

"Requirement for participants in program to have an energy efficiency audit to identify ways to reduce energy consumption. Recertification would take into consideration the customers implementation of energy efficiency recommendations and/or use of the free weatherization services." – **Rowan Helping Ministries**

OFFICIAL COPY
Sep 26 2023

Program Proposal Information:

Name and Organization: Joint proposal from multiple stakeholders merging Program Proposal # 9 with # 22

Program Name: Customer Affordability Program (CAP). DEC and DEP would have separate programs with separate funding from the respective customers. However, the program design would be the same for DEC and DEP. For ease, CAP is referred to singularly throughout this document.

Program Description: CAP is a monthly credit applied directly to the qualified customer's bill. Eligible customers would be automatically enrolled in the program via a list given to the Companies from eligible state agencies that are already qualifying people for government assistance programs. Customers would be eligible for CAP for a predetermined amount of time and will require recertification after this timeframe. The CAP program will strive to develop a process so that customers can be automatically recertified.

Program elements would also include:

1) Three income tiers of assistance: Tier 1, 0-50% FPL; Tier 2, 51-100% FPL, and Tier 3, 101% - 150% FPL. The highest level of assistance will go to Tier 1 and lowest level to Tier 3.
2) Annual assistance payments will be designed to reduce the electric energy burden (i.e., the percentage of annual income spent on electricity) to a target of 5% of household income, based on the average income and energy costs for participants in each tier.
3) The program would provide arrearage assistance for participating customers. Arrearages would be forgiven if a residential customer remains current on their bill for a period of 12 months after enrolling in the program.
4) Admin – no more than 5% of the value of discounts and arrearage write-down could be used for program administration; however, in the first year of the program the 5% cap would not apply to allow for the appropriate and reasonable recovery of one-time program launch costs.
5) The program would strive to use a streamlined auto enrollment protocol in partnership with NC DHHS and other appropriate agencies to enroll income-verified customers. Persons qualified for certain income-eligible programs within a yet to be determined time period would be automatically enrolled. Programs might include CIP, LIEAP, LIWAP, SNAP and/or Medicaid.
6) Customers who are enrolled in CAP will be referred to residential income-qualified programs to receive no-cost weatherization and EE services where available.

Program Objective: Proposal sponsors recognize assisting customers with affordability challenges may come through products and services designed to reduce energy usage and provide billing assistance. CAP provides bill credits to eligible customers automatically as they qualify for other eligible assistance. The opportunities to identify and assist low-income customers exist when customers apply for services offered by agencies administering income-qualified programs or when customers contact Duke Energy's customer service center for assistance. CAP will allow the Companies to refer income-qualified customers to receive

OFFICIAL COPY
Sep 26 2023

weatherization services in addition to the bill credit designed to lower a customer's bill via a flat, monthly credit.

Target Participants: The analysis conducted on DEC and DEP NC residential customers shows customers who receive Low-Income Energy Assistance Program (LIEAP) and Crisis Intervention Program (CIP) assistance use more electricity in the winter months and more usage per square foot in comparison to other customers. LIEAP and CIP recipients are more likely to have arrears and experience disconnection for non-payment. For this reason, the target participants for the CAP would initially include gas and electric LIEAP and CIP recipients but may include other program participants verified to meet certain Federal program income eligibility requirements.

Program Administration: The Companies want to work with DHHS to receive a list of customers for assistance programs identified as CAP eligible (i.e., LIEAP and CIP) and possibly other programs. The Companies and other stakeholders will work with DHHS to discuss requirements for participating customers to receive the CAP bill credit. The Companies would ideally auto-enroll eligible customers identified by the state agency and update the information directly in the billing system. The Companies would also be responsible for tracking program success.

Eligibility Criteria: Any DEC or DEP NC customer that receives assistance from one of the CAP eligible programs, i.e., LIEAP or CIP for either electric or non-electric fuels, or possibly other similar income-eligible programs. The proposal sponsors will also explore the feasibility of enrolling customers who would have qualified for LIEAP or CIP but did not receive assistance due to funding running out before enrollment was closed for the year.

Success Metrics: Metrics could include timely enrollment of eligible customers, tracking of program information, customer satisfaction with the program, reduced customer electricity burden, reduced disconnections for nonpayment, and reduced arrearages and uncollected write-offs.

Program Partners:

- Qualifying state agencies, such as NC DHHS

Additional Information:

The intention is to combine CAP with energy efficiency (EE) and weatherization programs and related energy education campaigns. Increasing access to and participation in EE programs, in addition to direct bill assistance, is a win-win for all involved. The analytics presented in the Low-Income Affordability Collaborative (LIAC) showed the LIEAP/CIP customers use more electricity per square foot than other income groups. Additionally, the average LIEAP/CIP customers were disconnected for non-payment ("DNP") over four times more than the total North Carolina customers (16.3 percent of LIEAP/CIP customers were DNP compared to 3.9 percent for all NC customers). Reducing the amount of kWhs used reduces the total bill, saving participants money. In addition, EE investments that reduce overall usage from participating CAP customers also can reduce the amount of bill payment assistance needed to reach the target energy burden, helping to save money for all customers. Reducing the total bill further with the CAP credit can greatly impact the lives of LIEAP/CIP customers. As previously

OFFICIAL COPY
Sep 26 2023

mentioned, the Companies are open to exploring expanding the list of CAP eligible government assistance programs but believe including LIEAP/CIP customers initially can have the biggest impact, even though only two percent of North Carolina customers received LIEAP/CIP assistance in the LIAC review period.

Alternative design element to add to CAP design:

1. Instead of a flat credit for 12 months, customers could receive double the credit amount for six months when customers experience an increased heating or cooling cost for their homes. Customers would receive the same annual credit level, and it would just be a matter of how and when distributed. The LIAC analysis revealed LIEAP/CIP customers' bills were highest in the winter months (December through February), followed by the summer months (June through September)

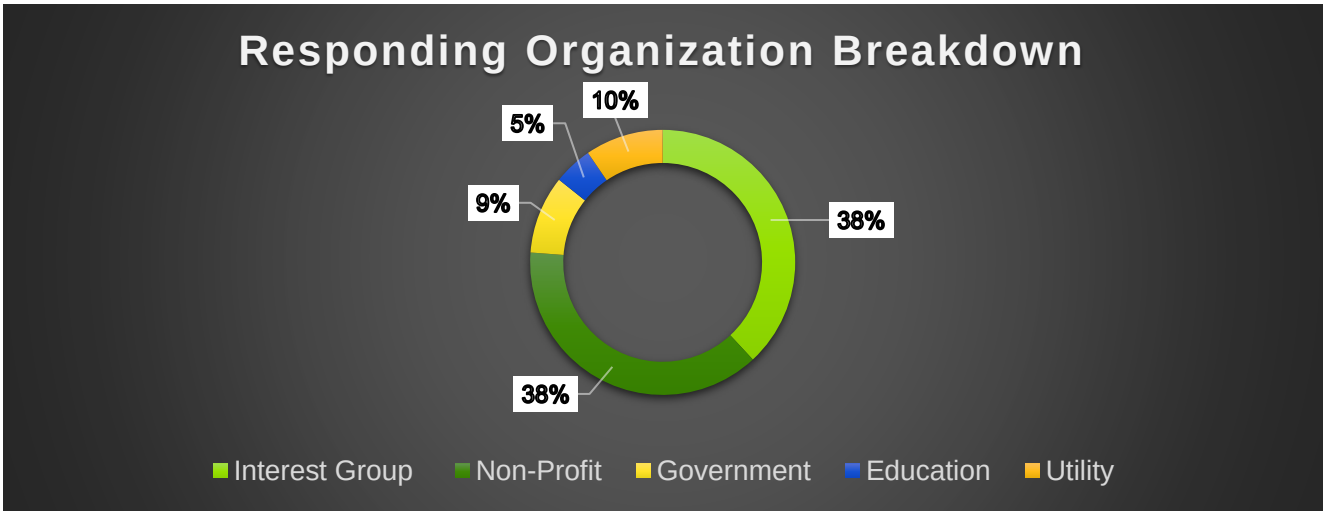
OFFICIAL COPY
Sep 26 2023

Appendix

Responding Organizations (21 Total)

Organizations (and Individuals who submitted the response on behalf of their organization):

- AARP (Michael Olender)
- Appalachian Voices (Rory McIlmoil)
- Carolina Industrial Groups for Fair Utility Rates (CIGFUR) (Christina Cress)
- Crisis Assistance Ministry (Carol Hardison)
- Dominion (Lisa FaJohn)
- Duke Energy (Conitsha Barnes)
- Legal Aid of North Carolina (Scheree Gilchrist)
- National Association for the Advancement of Colored People (NAACP) (Tina Katsanos)
- Nicholas Institute (Duke University) (Kay Jowers)
- North Carolina Community Action Association (Detrick Clark)
- North Carolina Dept of Health and Human Services (Allison Smith)
- North Carolina Housing Coalition (Adrienne Spinner)
- North Carolina Justice Center (Alfred Ripley)
- North Carolina Sustainable Energy Association (Daniel Parker)
- Public Staff of the North Carolina Utilities Commission (Tommy Williamson)
- Rowan Helping Ministries (Kyna Grubb)
- Sierra Club (Cassie Gavin)
- Southeast Energy Efficiency Alliance (SEEA) (Will Bryan)
- Southern Alliance for Clean Energy (SACE) (Forest Bradley-Wright)
- Southern Environmental Law Center (SELC) (David Neal)
- Vote Solar (Lindsey Hallock)



OFFICIAL COPY

Sep 26 2023

APPENDIX H – LIAC

LIAC WORKSHOP VII

DOCKET NOS. E-7, SUB 1213; E-7, SUB 1214; E-7, SUB 1187; E-2, SUB 1219 AND E-2, SUB 1193

OFFICIAL COPY
Sep 26 2023

Guidehouse

North Carolina

Low Income Affordability Collaborative

Workshop 7

May 19, 2022

Convened by

DUKE ENERGY.

Public Staff
North Carolina Utilities Commission

Guidehouse

OFFICIAL COPY
Sep 26 2023

Welcome

MACIE SHOUN
Workshop Facilitator

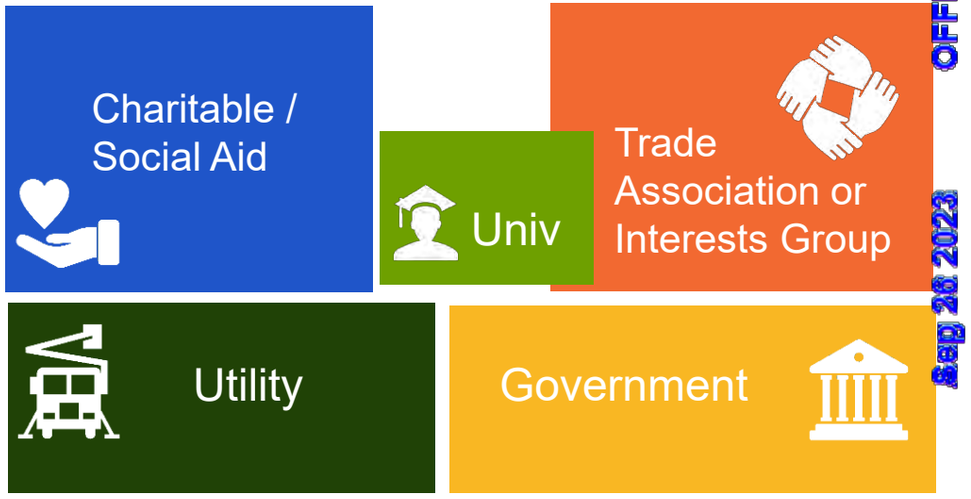
Workshop Support

JAMIE BOND

NNEOMMA NWOSU

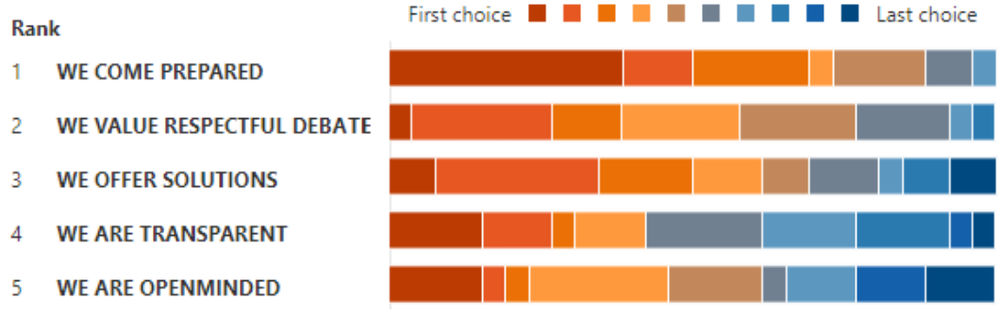
40-50
active LIAC participants

Organizational Representation



4 LIAC subteams

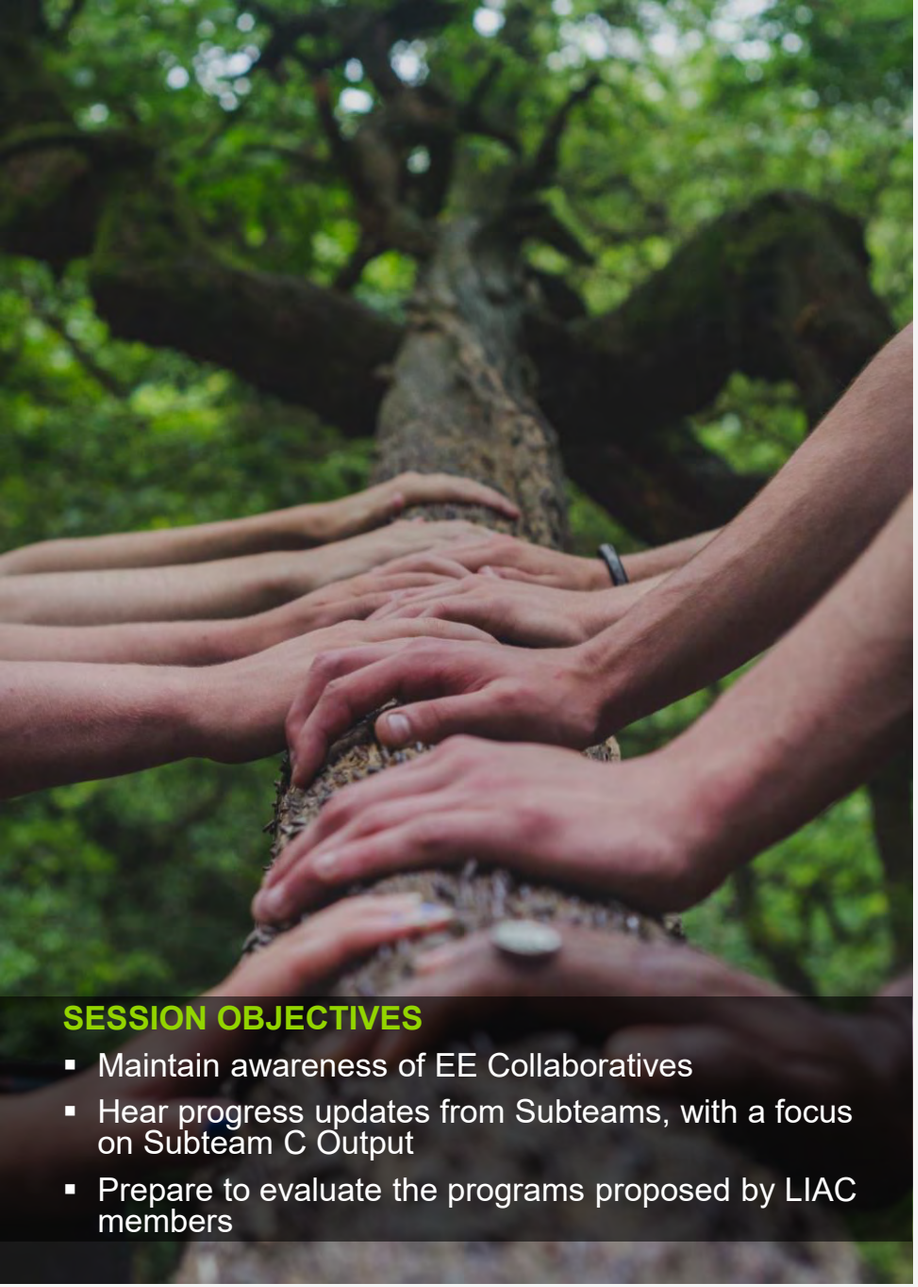
Top Guiding Principles



OFFICIAL COPY
Sep 26 2023

NC Low Income Collaborative

Agenda | May 19, 2021



SESSION OBJECTIVES

- Maintain awareness of EE Collaboratives
- Hear progress updates from Subteams, with a focus on Subteam C Output
- Prepare to evaluate the programs proposed by LIAC members

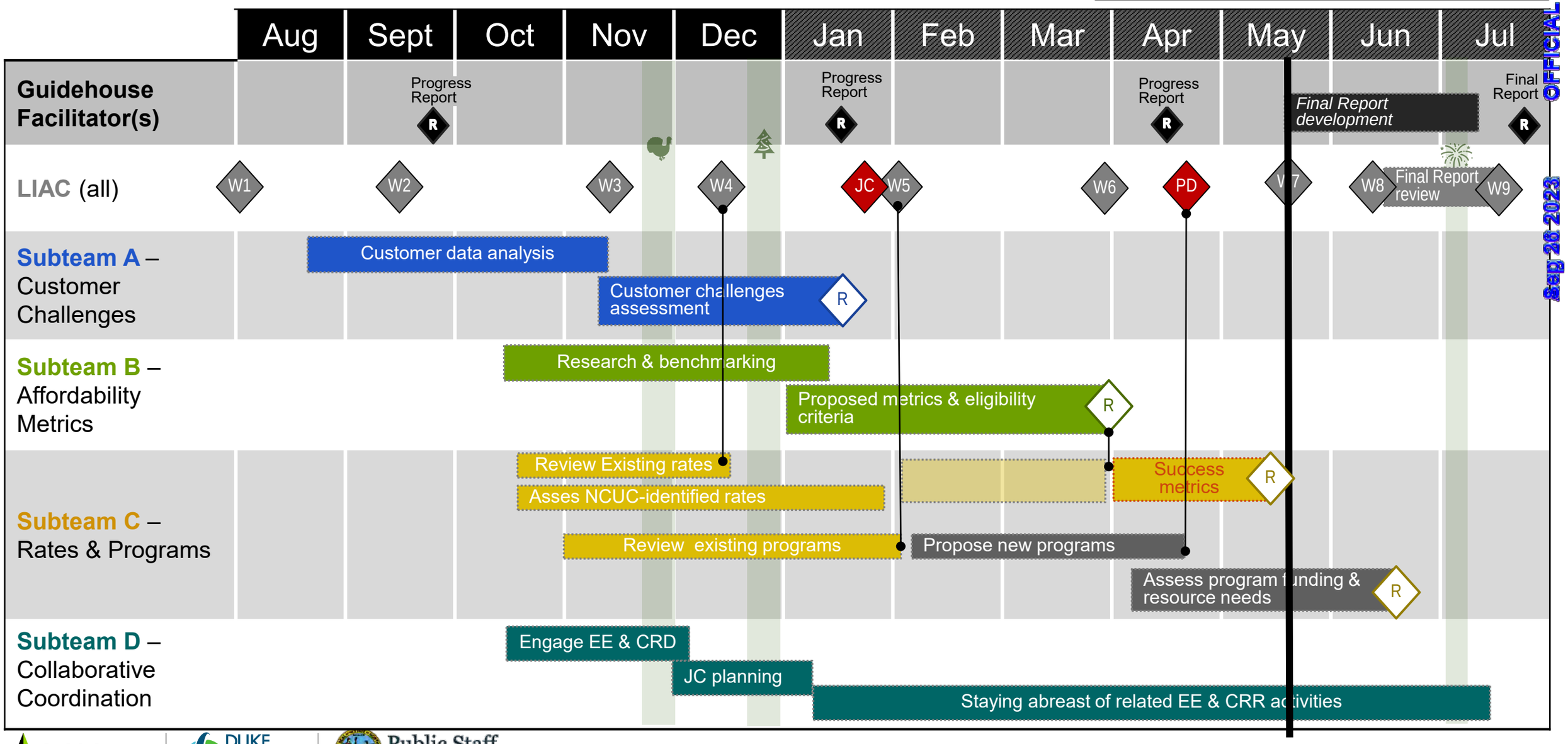
Workshop VII: Funding & Resource Needs

	CONVENE		
PART I	Welcome, Safety & Agenda	*Guidehouse*	*60-75 min*
	Collaborative Updates (EE)	*EE Liaisons*	
	Subteam A Update	*Subteam Co-Leads*	
	Rates & Programs (Subteam C): • Review of Delinquency	*LIAC Subteam C*	
	BREAK		
PART II	Rates & Programs (Subteam C): • Existing Programs & External Opportunities	*LIAC Subteam C*	*60-75 min*
	Program Proposal Evaluation Process	*Guidehouse*	
	Round Table	*All (GH Facilitated)*	
	Wrap-up & Look Ahead	*Guidehouse*	
	ADJOURN		

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

LIAC Macro Timeline | *as of 5/19/2022*

KEY
- W — Regular LIAC Workshop
- JC — Joint Collaborative Session
- RO — Subteam Readout
- PD — Program Proposal Pitch Day



OFFICIAL COPY
Sep 26 2023

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

EE LIAISON UPDATES

OFFICIAL COPY
Sep 26 2023

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Assessment of Analytics

Subteam A Update

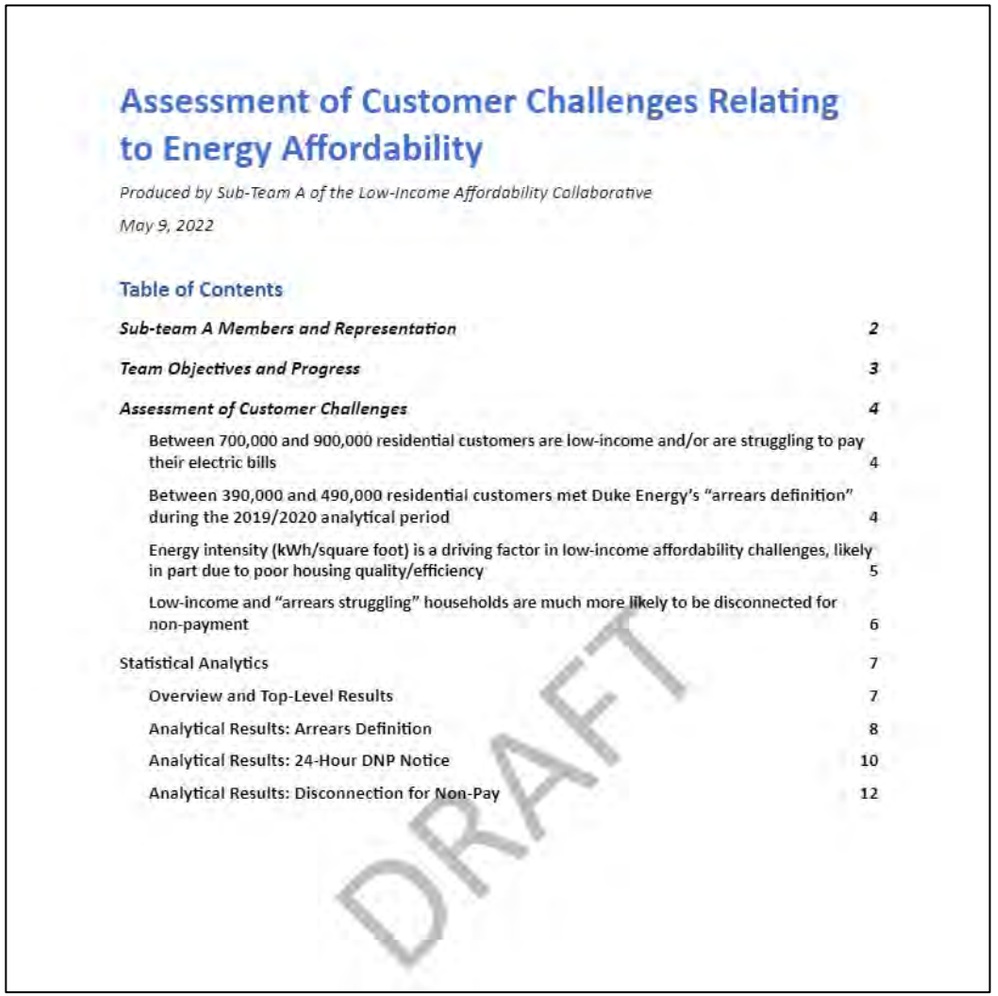
May 19, 2022

Subteam A

Update on Assessment of Affordability

OFFICIAL COPY
Sep 26 2023

- Assessment is still being finalized since V4 of the analytics that were published
- Final draft will be shared with the full collaborative
- Additions to Assessment:
  - Statistical Modeling overview
  - Details of key variables impacts on affordability
  - Updated numbers and minor enhancements throughout



Assessment of Customer Challenges Relating to Energy Affordability

Produced by Sub-Team A of the Low-Income Affordability Collaborative

May 9, 2022

Table of Contents

Sub-team A Members and Representation 2

Team Objectives and Progress 3

Assessment of Customer Challenges 4

Between 700,000 and 900,000 residential customers are low-income and/or are struggling to pay their electric bills 4

Between 390,000 and 490,000 residential customers met Duke Energy's "arrears definition" during the 2019/2020 analytical period 4

Energy intensity (kWh/square foot) is a driving factor in low-income affordability challenges, likely in part due to poor housing quality/efficiency 5

Low-income and "arrears struggling" households are much more likely to be disconnected for non-payment 6

Statistical Analytics 7

Overview and Top-Level Results 7

Analytical Results: Arrears Definition 8

Analytical Results: 24-Hour DNP Notice 10

Analytical Results: Disconnection for Non-Pay 12

DRAFT

Subteam A

Key Findings & Opportunities

Key Findings:

- Younger customers are more likely to be in arrears and disconnected for non-pay
- Electric burden has a significant impact on electric bill affordability
- Winter impact & heat source are more impactful than summer
- Renters have more affordability challenges than owners

Opportunities:

- Bill assistance programs may help customers who are low-income or have low cash reserves/liquid assets to pay their electricity bills
- Improving a household's energy efficiency through air sealing, insulation, and efficient heating systems could substantially help affordability challenges
- Identifying low-income customers who are experiencing affordability challenges is necessary to offer the right solutions to address these challenges

OFFICIAL COPY
Sep 26 2023

OFFICIAL COPY
Sep 26 2023

SUBTEAM C UPDATES

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Review of Practices and Regulatory Provisions Related to Disconnections

May 19, 2022

Review of Disconnect Rules

OFFICIAL COPY
Sep 26 2023

What, if any, practices and regulatory provisions related to disconnections for nonpayment should be modified or revised?

NCUC Rule R12-11. Disconnection of Residential Customer's Electric Service

- NCUC Rule R12-11 is applicable to all residential customer who receive electric service from a regulated utility.

Subteam C

NCUC Rule R12-11 Requirements

- Bill past due shall not be less than twenty-five (25) days after the billing date.
- Payment due to company or designated payment agency during regular business hours by 5:00 p.m. on the twenty-fifth (25th) day, unless such day is a Saturday, Sunday, or legal holiday in which event the last day for payment runs until the end of the next day which is not a Saturday, Sunday, or legal holiday.
- Electric service to a residential customer shall not be terminated for nonpayment of a delinquent account until the utility has given such customer **at least 10 days' written notice** that his service is subject to termination.
- **At least 24 hours prior** to a proposed service termination, the utility shall, in good faith, attempt to contact a customer to whom a written disconnect notice has been mailed (as well as any third party who may have been designated by the customer to receive notice pursuant to subsection (n) of this rule), either by telephone or by visit to the customer's premises.
- **Immediately prior to the actual termination of service**, the utility's representative shall attempt to personally contact the customer on the premises.

OFFICIAL COPY
Sep 26 2023

NCUC Rule R12-11 Requirements

OFFICIAL COPY
Sep 26 2023

- With respect to bills rendered between November 1 and March 31 of every year and in conformity with the policy considerations expressed by Congress in the Public Utility Regulatory Policies Act (PURPA) of 1978, the notice of proposed termination shall also contain a statement that no termination shall take place without the express approval of the Commission if the customer can establish all of the following:

  (a) That a member of the customer's household is either handicapped or elderly (65 years of age or older), or both.

  (b) That the customer is unable to pay for such service in full or in accordance with subsection (I)(3) of this rule.

  (c) That the household is certified by the local social service office which administers the Energy Crisis Assistance Program or other similar programs as being eligible (whether funds are then available or not) to receive assistance under such programs.

Subteam C

Current Notice Effectiveness

OFFICIAL COPY
Sep 26 2023

DEC - Average Monthly Residential Notices							
Pre & Post COVID		10 Day Notice	24 Hour Notice	Day of Disc. Notice	Disconnected	Reconnected	No Action
PRE	July 2019 – Dec 2019	~335,000	~179,000	~32,000	~9,300	~8,700	~600
	Reduction from previous notice		46%	82%	72%		Less than 1% (of delinquent population)
POST	Nov 2020 – Feb 2021	~228,000	~105,000	~48,000	~6,700 ~7,500 (purged)	~5,000	~9,200 (includes purge)
	Reduction from previous notice		54%	54%	70%		4% (of delinquent population)

DEP - Average Monthly Residential Notices							
Pre & Post COVID		10 Day Notice	24 Hour Notice	Day of Disc. Notice	Disconnected	Reconnected	No Action
PRE	July 2019 – Dec 2019	~180,000	~101,000	~21,000	~8,000	~6,800	~1,200
	Reduction from previous notice		44%	79%	62%		Less than 1% (of delinquent population)
POST	Nov 2020 – Feb 2021	~159,000	~105,000	~25,000	~7,300 ~200 (purged)	~6,500	~1,000 (includes purge)
	Reduction from previous notice		34%	76%	70%		Less than 1% (of delinquent population)

Current Notice Effectiveness

OFFICIAL COPY
Sep 26 2023

DEC - Average Monthly Residential Notices							
Pre & Post Campaign Implementation		10 Day Notice	24 Hour Notice	Day of Disc. Notice	Disconnected	Reconnected	No Action
PRE	Jan 2019 – Jun 2019	~320,000	~169,000	N/A	~13,000	~10,100	~2,900
	Reduction from previous notice		47%	N/A	92%		.91% (of delinquent population)
POST	July 2019 – Dec 2019	~335,000	~179,000	~32,000	~9,300	~8,700	~600
	Reduction from previous notice		46%	82%	72%		.18% (of delinquent population)

DEP - Average Monthly Residential Notices							
Pre & Post Campaign Implementation		10 Day Notice	24 Hour Notice	Day of Disc. Notice	Disconnected	Reconnected	No Action
PRE	Jan 2019 – Jun 2019	~177,000	~108,000	N/A	~5,000	~4,300	~700
	Reduction from previous notice		44%	N/A	95%		.40% (of delinquent population)
POST	July 2019 – Dec 2019	~180,000	~101,000	~21,000	~8,000	~6,800	~1,200
	Reduction from previous notice		44%	79%	62%		.67% (of delinquent population)

Subteam C

NC Programs & Payments

OFFICIAL COPY
Sep 26 2023

NC Residential Payment Channel Breakdown March 2019 – February 2020				
Jurisdiction	Mail-In	One-Time (Speedpay)	Electronic / Draft	Walk-In
DEC	22.0%	30.6%	43.9%	3.5%
DEP	23.4%	28.7%	38.8%	9.0%

NC Residential Installment Plans January 2022			
Jurisdiction	Arrears	Deposit	Total
DEC	75,435	2,541	77,976
DEP	42,781	1,842	44,623

NC Budget Billing
April 30, 2022
287,046[1]

[1] Approximately 9% of the DEC and DEP NC residential customers

Conclusion

Review for possible revisions of rules best addressed through rulemaking procedure ordered by the North Carolina Utilities Commission.

OFFICIAL COPY
Sep 26 2023

OFFICIAL COPY
Sep 26 2023

BREAK

(Resuming at 2:00 PM)

OFFICIAL COPY
Sep 26 2023

SUBTEAM C UPDATES

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Existing Programs and External Opportunities Discussion

Led by Subteam C

OFFICIAL COPY
Sep 26 2023

NCUC Order

Investigate the strengths and weaknesses of existing rates, rate design, billing practices, customer assistance programs and energy efficiency programs in addressing affordability. Questions that should be addressed include:

- **What defines a "successful program" and what metrics should be monitored and presented that show the impact of programs on addressing or mitigating affordability challenges?**
- **What percentage of residential customers are eligible for each existing program and what percentage of eligible customers enroll in and/or take advantage of these programs?**
- **What is the impact of existing programs on the energy burden for enrolled customers?**
- **Should existing programs be maintained, replaced or terminated? If maintained, should any changes be made to improve results? If programs are replaced, what would replace them?**
- **What existing utility and external funding sources are available to address affordability? Estimate the level of resources that would be required to serve additional customers**
- **What are the opportunities (and challenges) of the utilities working with other agencies and organizations to collaborate and coordinate delivery of programs that affect affordability concerns?**

Weatherization and Equipment Replacement Program ("WERP") & Refrigerator Replacement Program ("RRP")[1]

OFFICIAL COPY
Sep 26 2023

Duke Energy Carolinas launched WERP and RRP in February 2015.

Program is designed to assist low - income customers with installing energy efficiency measures in their home through WERP and RRP. WERP and RRP are delivered in coordination with State agencies that administer the state's weatherization programs.

WERP and RRP are available for income-qualified customers residing in existing, individually metered single-family homes, condominiums, and mobile homes.

- Funds are available for (i.) weatherization measures and/or (ii.) heating system replacement with a 15 or greater SEER heat pump, and/or (iii.) refrigerator replacement with an Energy Star appliance.

Measures eligible for funding identified via a full energy audit. Customers are placed into a tier based on energy usage so that high energy users to receive more extensive weatherization measures.

- Tier 1 provides up to $600 for energy efficiency services
- Tier 2 provides up to $4,000 for energy efficiency services
- Up to $6,000 for HVAC replacement.
- Refrigerator Replacement $1,080

% of Eligible Customers: ~ DEC 33.2%

Program Funding: Energy Efficiency Rider

Program Administrator: North Carolina Community Action Agency (NCCAA) and TRC.

- Agencies use a combination of federal, local and Duke Energy funds to administer program.
- Program eligibility determined by state assistance agencies.

Metrics used to evaluate program success:

- Number of customers served
- Number of measures installed
- Evaluated and verified kWh reductions driven by installed measures

Energy Burden Impact

	Weatherization Tier I			Weatherization Tier II			Refrigerator Replacement		
	Before	After	Change	Before	After	Change	Before	After	Change
LIEAP/CIP	6.9%	6.8%	0.1%	7.7%	6.8%	0.9%	6.9%	6.8%	0.1%
<150% FPL	6.6%	6.5%	0.1%	7.5%	6.5%	1.0%	6.8%	6.5%	0.3%
150% to 200% FPL	3.8%	3.8%	0.0%	4.3%	3.8%	0.5%	4.0%	3.8%	0.2%

	Customer Served	WERP Energy Savings Per Participant (kWh)	RRP Energy Savings Per Participant (kWh)	Avg Cost Per Participant	Budget	Actual Spend
2019	1,044	1,994	805	$3,487	$4,493,243	$3,642,979
2020	502	1,909	805	$3,935	$ 2,769,257	$1,975,502
2021	976	1,827	805	$3,463	$3,200,131	$3,380,340

[1]Work is underway to file similar program for approval with the NCUC in DEP service territory.
[2] Data in tables reflect system values.

Weatherization and Equipment Replacement Program ("WERP") & Refrigerator Replacement Program ("RRP")

PROGRAM OPPORTUNITIES AND CHALLENGES

- **What are the challenges of working with other agencies or organizations to collaborate and coordinate delivery of this program?** The Company has no insight into how customers are prioritized at the State Agency level. Number of customers served is limited by State Agencies staffing as well as contracting services available for installation.
- **What are the opportunities of working with other agencies or organizations to collaborate and coordinate delivery of this program?** The agencies work directly with the customers and provide actionable feedback for how to expand the program.
- **In your opinion what are the strengths of this program?** Services are provided at no cost to the customer, lowers customer's energy bills, and provides kWh savings to the Company.
- **In your opinion what are the weaknesses of this program?** Limitations to being able to address all customer needs at the time of service (health and safety).

PROGRAM RECOMMENDATIONS

- **If given the opportunity what are (3) three things, you would change or add to this program to make it better and why?**
  - Improve reporting to provide more visibility into where Healthy and Safety funds are going, tracking of weatherization deferrals, understanding of additional funding needed to enable customers to participate in WERP/RRP.
  - Potential prioritization of customers based on energy intensity, income level, potential for customer assistance funds.
  - Determine long term funding for Health and Safety funds to ensure customers are able to continue to receive needed Weatherization services. Explore opportunities to expand services provided and include additional measures as identified.

OFFICIAL COPY
Sep 26 2023

LIAC Sub-Team C Working Group 1 – Recommendations

The recommendations detailed below were provided by LIAC Sub-Team C Working Group 1 members for the Company to consider to increase program participation and outreach.

- Identify opportunities to increase program participation through existing network of providers
- Evaluate opportunities to expand network of providers that supports increasing number of program participants
- Work with network providers to identify opportunities for the Company to market program to eligible customers
- Evaluate opportunities with providers for increased health and safety investment

OFFICIAL COPY
Sep 26 2023

OFFICIAL COPY
Sep 26 2023

Neighborhood Energy Saver ("NES")

Duke Energy Carolinas and Duke Energy Progress offer Neighborhood Energy Saver.

Program provides energy savings by providing measures and services at no cost to customers. The goal is to offer persistent energy savings to income-qualified customers through the direct installation of energy-saving measures.

NES is available to individually metered residential customers in selected neighborhoods where ~50% of the homeowners have income equal to or less than 200% of the Federal Poverty Guidelines, based on third party and census data.

Marketing for NES targets neighborhoods with a significant low-income customer base using a grassroots marketing approach to interact on an individual customer basis and gain trust. Participation is driven through a neighborhood kick-off event that includes trusted community leaders and local and state officials explaining the benefits of the Program. Historically, 65% of the customers marketed participate in the program.

% of Eligible Customers[1] - DEC ~33.2% & DEP ~33.5%

Program Funding: Energy Efficiency Rider

Program Administrator: Franklin Energy

Metrics used to evaluate program success:

- Number of customers served
- Number of measures installed
- Evaluated and verified kWh reductions driven by installed measures

Energy Burden Impact			
	Neighborhood Energy Saver		
	Before	After	Change
LIEAP/CIP	8.7%	8.3%	0.4%
<150% FPL	8.1%	7.7%	0.4%
150% to 200% FPL	4.6%	4.3%	0.3%

	Year	Customer Served	Energy Savings Per Participant (kWh)	Avg Cost Per Participant	Budget
DEC	2019	9770	693	$347	$3,981,170
	2020	1753	693	$364	$3,680,962
DEP	2019	4517	819	$349	$1,911,674
	2020	617	819	$595	$1,888,543

[1] Reflects current residential approximate percent of customers in the respective service territory identified as Low Income (200% of FPL) out of the total number of residential customers. However, due to the nature of the program design, additional customers which live in neighborhoods where ~50% of the homeowners have income equal to or less than 200% of the Federal Poverty Guidelines will also be eligible to participate. Additionally, customers which have been identified as low income but which live in very rural settings may not be eligible to participate.

[2] Data in tables reflect system values.

Neighborhood Energy Saver ("NES")

OFFICIAL COPY
Sep 26 2023

PROGRAM OPPORTUNITIES AND CHALLENGES

- **What are the opportunities of working with other agencies or organizations to collaborate and coordinate delivery of this program?** Utilize NES to recommend state agencies for health and safety repairs. Engage local weatherization and agencies in kickoff and neighborhood events to better support customer additional needs.
- **In your opinion what are the strengths of this program?** Services are provided at no cost to the customer. Able to serve a large number of customers and provide 1:1 recommendations and improvements to their home.
- **In your opinion what are the weaknesses of this program?** Limitations to being able to address all customer needs at the time of service (health and safety).

PROGRAM RECOMMENDATIONS

- **If given the opportunity what are (3) three things, you would change or add to this program to make it better and why?** Explore expansion into additional energy savings measures such as HVAC repair and replacement opportunities and AC units. Explore opportunities to partner with additional contractor networks to provide services to qualifying customers who do not happen to be located within a "neighborhood".

OFFICIAL COPY
Sep 26 2023

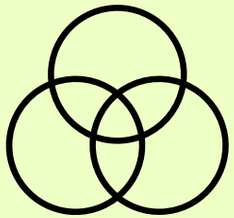
PROGRAM PROPOSAL PROCESS UPDATE

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

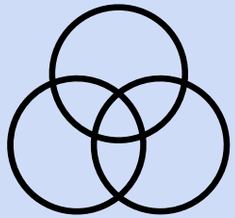
Total Number of Proposals now 19

OFFICIAL COPY
Sep 26 2023

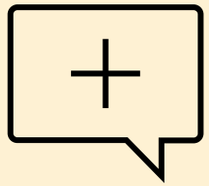
Proposal Updates



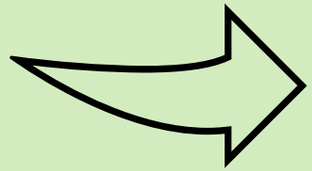
Proposal 8 and 18 combined to make ***Proposal 23***



Proposal 9 and 22 combined to make ***Proposal 24***



Proposal 16 added examples



Proposal 17 transferred to on-tariff working group

OFFICIAL COPY
Sep 26 2023

Proposal Process Timeline

4/20

PITCH DAY – Proposals shared with LIAC Members

★ 5/19

WORKSHOP 7 – Proposal Evaluation Package shared with filed LIAC organizations

5/19-5/27

LIAC organizations complete proposal assessment form

5/27

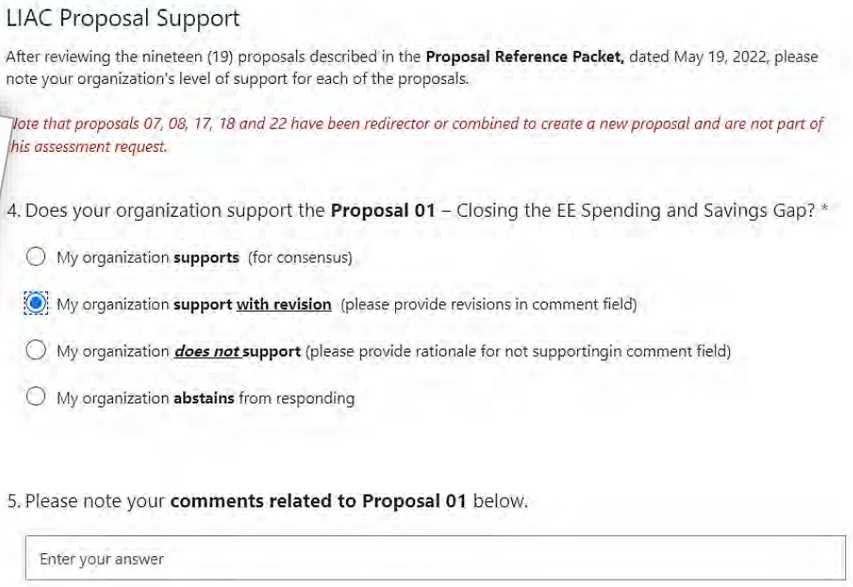
Assessment responses submitted NO LATER THAN EOD 5/27

6/9

WORKSHOP 8 – Walk through Draft Summary of LIAC input & findings

OFFICIAL COPY
Sep 26 2023

LIAC Proposal Assessment



LIAC Proposal Assessment Package will be shared following this session:

- Reference Guide (19 proposals plus examples for Proposal 16)
- Assessment Link for designated representative to provide consensus or feedback

DESIGNATED LIAC ORGANIZATION REPRESENTATIVE

RED – To Confirm

OFFICIAL COPY
Sep 26 2023

LIAC Organization	Designated Rep
AARP	Steven Hahn
Advance Carolina	La'Meshia Whittington
Apartment Assoc. of NC	*N/A*
Appalachian Voices	Rory McIlmoil
Carolina Small Business Development Fund	Kevin Dick
ChargePoint	Matthew Deal
Charlotte Area Fund	Nick Wharton
CIGFUR	Christina Cress
City of Raleigh	Gregory Jenkins
Crisis Assistance Ministry	*Carol Hardison*
Dominion Energy	Lisa FaJohn
Duke Energy	Conitsha Barnes
Legal Aid of NC	Scheree Gilchrist
NAACP	Dr. Anthony Spearman
National Institute Economic Development	Kevin Price

LIAC Organization	Designated Rep
NCCAA	Detrick Clark
NC OAG	*Peggy Force*
NC DEQ (State Weatherization)	Paula Hemmer
NC DHHS	Allison Smith
NCJC	Al Ripley
NC ORR (HOPE/ERA)	Tara Fikes
NC Pandemic Recovery Office	Daniel Parker
NCSEA	Daniel Parker
Nicholas Institute	Kay Jowers
PS NCUC	Lucy Edmondson
Rowan Helping Ministries	Kyna Grubb
Sierra Club	*Will Harlan*
SEEA	William Bryan
SACE	Forest Bradley-Wright
SELC	David Neal
Sunrun	Thad Cully
Vote Solar	Lindsey Hollock

OFFICIAL COPY
Sep 26 2023

OPEN DISCUSSION

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

Next Steps

Homework & Look-Ahead

Remaining LIAC Sessions

6/9 – Workshop 8

7/7 – Workshop 9

Next up

WHEN

6/9 – Workshop 8

WHAT

- Review of final output from each Subteam
- Proposal portfolio follow-up

YOUR TASK(S)

- Ensure that the designated individual for your organization completes the assessment by ***EOD 5/27***
- Reach out to Macie (mshoun@guidehouse.com) if you would like a legal representative from your organization to be involved in the discussions around Subteam C task 3E

OFFICIAL COPY
Sep 26 2023

ADJOURN

THANK YOU

all for your commitment & engagement

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY

Sep 26 2023

Contact

Chip Wood
Partner
chip.wood@guidehouse.com
704.347.7621

Jamie Bond
Associate Director
jamie.bond@guidehouse.com
704.347.7626

Guidehouse

©2021 Guidehouse Inc. All rights reserved. This content is for general information purposes only, and should not be used as a substitute for consultation with professional advisors.

Public Staff
North Carolina Utilities Commission

OFFICIAL COPY

Sep 26 2023

APPENDIX I – LIAC

LIAC WORKSHOP IX

DOCKET NOS. E-7, SUB 1213; E-7, SUB 1214; E-7, SUB 1187; E-2, SUB 1219 AND E-2, SUB 1193

OFFICIAL COPY
Sep 26 2023

Guidehouse

North Carolina

Low Income Affordability Collaborative

Workshop 9

July 7, 2022

Convened by

DUKE ENERGY.

Public Staff
North Carolina Utilities Commission

Guidehouse

OFFICIAL COPY
Sep 26 2023

Welcome

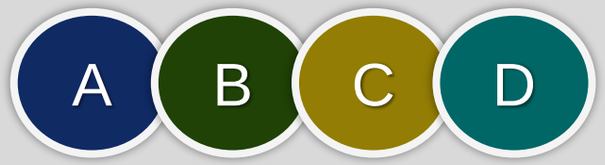
MACIE SHOUN
Workshop Facilitator

NNEOMMA NWOSU
Workshop Support

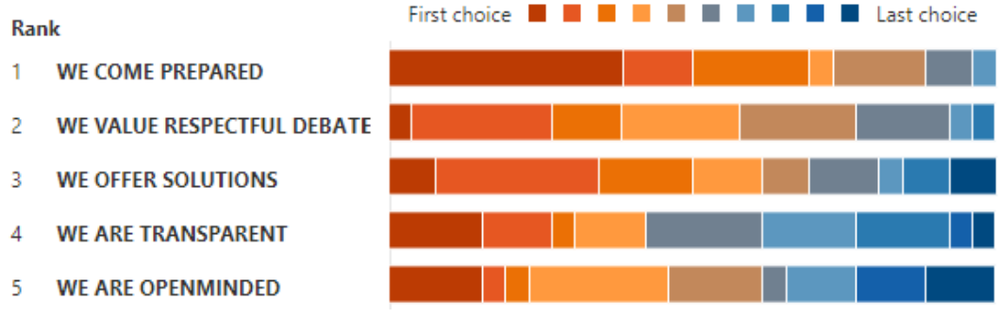
40-50
active LIAC participants

Organizational Representation

4 LIAC subteams



Top Guiding Principles



Guidehouse | DUKE ENERGY. | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

NC Low Income Collaborative

Agenda | July 7, 2022

SESSION OBJECTIVES

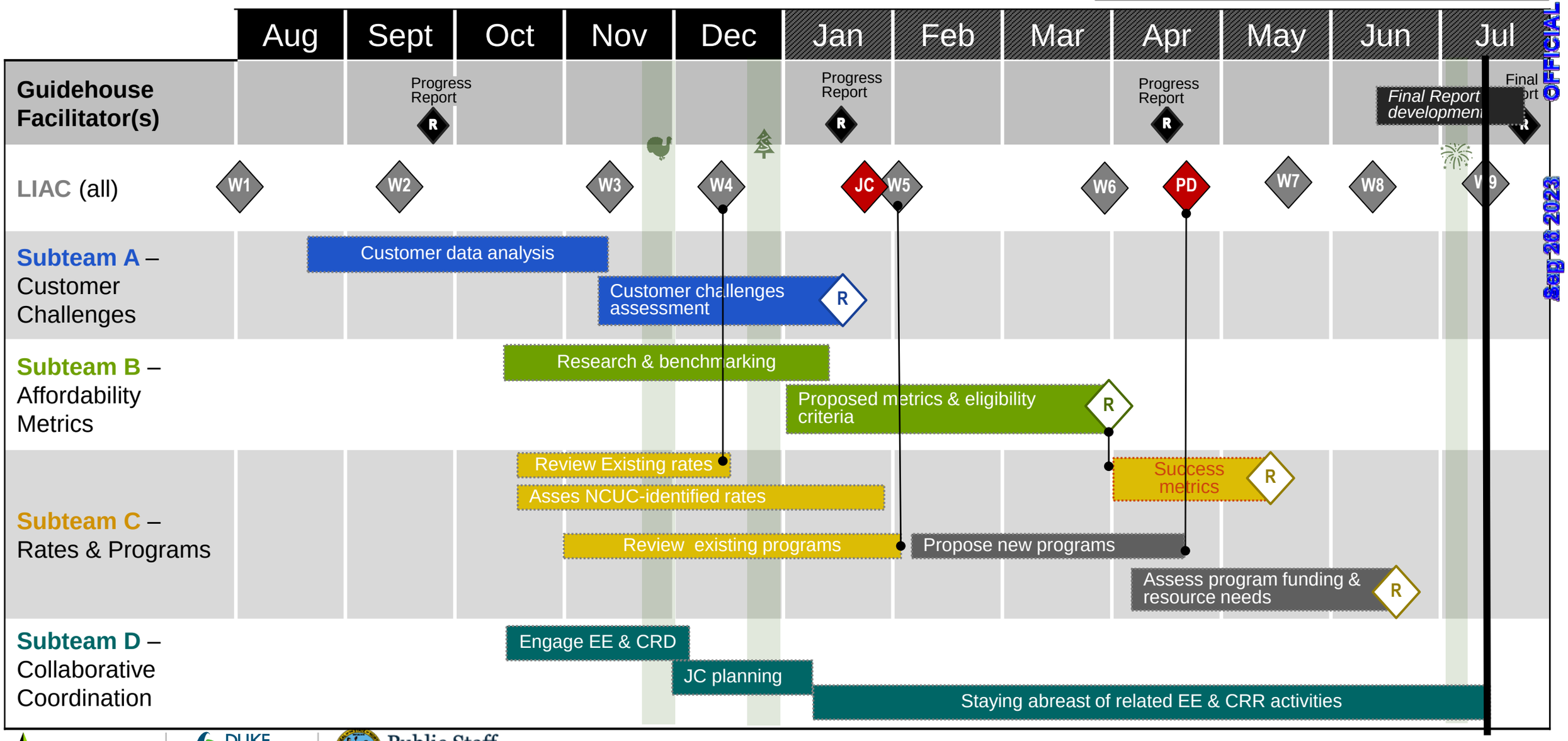
- Share the report framework with collaborative members
- Review the next steps in the Regulatory Process as defined by the NCUC order approving the LIAC

Workshop IX: Collaborative Final Meeting		
CONVENE		
Welcome & Opening Remarks	*Guidehouse*	
Program Filing Overview	*Guidehouse* *Duke Energy*	
Final Report Framework	*Duke Energy* *Public Staff*	*30-45 min*
Thank you & Next Steps	*Guidehouse* *Duke Energy* *Public Staff*	
ADJOURN		

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

Look Back: LIAC Macro Timeline | *as of 7/7/2022*

KEY
- W — Regular LIAC Workshop
- JC — Joint Collaborative Session
- RO — Subteam Readout
- PD — Program Proposal Pitch Day



OFFICIAL COPY
Sep 26 2023

OFFICIAL COPY
Sep 26 2023

Program Filings

In the past month Duke Energy has filed two programs that have similarities to programs we have discussed:

- **DEP: Residential Income Qualified EE & Weatherization Program** (Filed June 13th)
  - –Docket No. E-2, Sub 1299
  - –Similar to Proposal 2
- **DEC: Residential Income-Qualified High Energy Use Pilot** (Filed June 30th)
  - –Docket No. E-7, Sub 1272
  - –Similar to Proposal 3

OFFICIAL COPY
Sep 26 2023

Report Framework

1. **Procedural History/Background**
2. **Current Affordability Challenges**
   LIAC – Sub team A Work Product
   Duke Energy
   Public Staff
3. **Research on Affordability Metrics and Trends**
   LIAC – Sub team B Work Product
   Duke Energy
   Public Staff
4. **Investigation of Current Programs**
   LIAC – Sub team C Work Product
   Duke Energy
   Public Staff
5. **Joint Collaborative Meeting**
   LIAC – Sub team D Work Product
   Duke Energy
   Public Staff
6. **Low-Income Programs, Proposals, and Recommendations**
   LIAC – Proposal Assessment Findings
   Duke Energy
   Public Staff

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

From Duke Energy and the Public Staff:

Thank you!

Next Steps in the Regulatory Process:

Duke Energy and the Public Staff will file the Joint Final Report on July 29th

The Commission will issue a procedural order allowing for comment on the Joint Final Report

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY
Sep 26 2023

ADJOURN

THANK YOU

all for your commitment & engagement

Guidehouse | DUKE ENERGY | Public Staff North Carolina Utilities Commission

OFFICIAL COPY

Sep 26 2023

Contact

Chip Wood
Partner
chip.wood@guidehouse.com
704.347.7621

Macie Shoun
Consultant
mshoun@guidehouse.com
919.559.7423

Guidehouse

©2021 Guidehouse Inc. All rights reserved. This content is for general information purposes only, and should not be used as a substitute for consultation with professional advisors.