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May 26, 2023

VIA ELECTRONIC FILING

Ms. A. Shonta Dunston
Chief Clerk
North Carolina Utilities Commission
4325 Mail Service Center
Raleigh, North Carolina 27699-4300

**Re: Duke Energy Carolinas, LLC's Motion for Leave to File Direct
Testimony and Exhibits of Carolyn T. Miller Adopting the Direct
Testimony and Exhibits of Shannon R. Listebarger
Docket No. E-7, Sub 1285**

Dear Ms. Dunston:

Enclosed for filing is Duke Energy Carolinas, LLC's ("DEC" or the "Company") Motion for Leave to File Direct Testimony and Exhibits of Carolyn T. Miller Adopting the Direct Testimony and Exhibits of Shannon R. Listebarger ("Motion") pursuant to Rule R1-7 of the regulations of the North Carolina Utilities Commission ("Commission").

Pursuant to Commission Rule R1-28(e) and the Commission's request, the Company plans to deliver eight paper copies of the entire filing to the Commission before the close of business today.

Please do not hesitate to contact me if you have any questions or need additional information.

Sincerely,

A handwritten signature in black ink that reads "Kendrick C. Fentress". The signature is written in a cursive, flowing style.

Kendrick C. Fentress

cc: Parties of Record

**STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH**

DOCKET NO. E-7, SUB 1285

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of

Application of Duke Energy Carolinas, LLC)
for Approval of Demand-Side Management)
and Energy Efficiency Cost Recovery Rider)
Pursuant to N.C.G.S. § 62-133.9 and)
Commission Rule R8-9)

**MOTION FOR LEAVE TO FILE
DIRECT TESTIMONY AND
EXHIBITS OF
CAROLYN T. MILLER
ADOPTING THE DIRECT
TESTIMONY AND EXHIBITS OF
SHANNON R. LISTEBARGER**

NOW COMES Duke Energy Carolinas, LLC (“DEC”), by and through counsel, and moves for leave to file direct testimony and exhibits for DEC witness, Carolyn T. Miller, Rates and Regulatory Strategy Manager for DEC, in order to allow the witness to adopt the pre-filed direct testimony and exhibits of witness Shannon R. Listebarger. In support of this Motion, DEC respectfully shows the Commission the following:

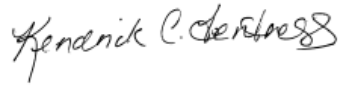
On February 28, 2023, DEC filed its Application for Approval of Demand-Side Management and Energy Efficiency (“DSM/EE”) Cost Recovery Rider. The pre-filed direct testimony includes the testimony and exhibits of DEC witness Shannon R. Listebarger, who is no longer employed by DEC. DEC respectfully requests that Carolyn T. Miller be allowed to adopt the previously filed direct testimony and exhibits of Shannon R. Listebarger.

DEC proposes for Ms. Miller to adopt Ms. Listebarger’s testimony and exhibits in full. The proposed direct testimony and exhibits of Ms. Miller are attached to this Motion.

Given that Ms. Miller would adopt testimony and exhibits previously pre-filed with its Application in this docket, DEC asserts that no party will be prejudiced by this Motion.

WHEREFORE, DEC respectfully requests leave to file the attached direct testimony and exhibits of Carolyn T. Miller in this proceeding.

Respectfully submitted this 26th day of May, 2023.

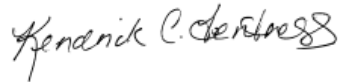


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CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Carolinas, LLC's Motion for Leave to File Direct Testimony and Exhibits of Carolyn T. Miller Adopting the Direct Testimony and Exhibits of Shannon R. Listebarger, in Docket Nos. E-7, Sub 1285, has been served by electronic mail, hand delivery, or by depositing a copy in the United States Mail, 1st Class Postage Prepaid, properly addressed to parties of record.

This the 26th day of May, 2023.



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**STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH**

DOCKET NO. E-7, SUB 1285

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of)
Application of Duke Energy Carolinas, LLC)
for Approval of Demand-Side Management)
and Energy Efficiency Cost Recovery Rider)
Pursuant to N.C. Gen. Stat. § 62-133.9 and)
Commission Rule R8-69)

**DIRECT TESTIMONY OF
CAROLYN T. MILLER
FOR DUKE ENERGY
CAROLINAS, LLC**

1 **I. INTRODUCTION AND PURPOSE**

2 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

3 A. My name is Carolyn T. Miller, and my business address is 526 South Church
4 Street, Charlotte, North Carolina, 28202.

5 **Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

6 A. I am a Rates and Regulatory Strategy Manager for Duke Energy Carolinas, LLC
7 (“DEC” or the “Company”).

8 **Q. PLEASE SUMMARIZE YOUR EDUCATION AND PROFESSIONAL**
9 **QUALIFICATIONS.**

10 A. I graduated from the College of New Jersey in 1994 with a Bachelor of Science
11 degree in Accounting. I started my career in 1994 at Ernst & Young as a Senior
12 Auditor. Subsequently, from 1997-1999, I worked for Duke Energy Global
13 Asset Development as a Business Analyst. From 1999-2001, I worked for Duke
14 Engineering & Services as a Senior Business Analyst. I then joined Duke
15 Energy in 2001 and served in various roles, including as Senior Business
16 Analyst, Manager of General Accounting, Manager of Emerging Issues, and
17 Manager of Tax Accounting. Since 2016, I have worked for DEC as Manager
18 of Rates and Regulatory Strategy. As part of my role, I am responsible for
19 providing regulatory support and guidance on DEC and Duke Energy Progress,
20 LLC’s demand-side management (“DSM”) and energy efficiency (“EE”) cost
21 recovery process.

22 **Q. WHAT ARE YOUR PRESENT RESPONSIBILITIES FOR DEC?**

1 A. I am responsible for providing regulatory support and guidance on DEC's
2 demand-side management ("DSM") and energy efficiency ("EE") cost recovery
3 process.

4 **Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THIS**
5 **COMMISSION?**

6 A. Yes. I have provided testimony in support of the DEC NC DSM/EE Rider,
7 most recently in Docket No. E-7, Sub 1230.

8 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS**
9 **PROCEEDING?**

10 A. The purpose of my testimony is to explain and support DEC's proposed
11 DSM/EE cost recovery rider (Rider 15), including prospective and Experience
12 Modification Factor ("EMF") components, and provide information required
13 by Commission Rule R8-69.

14 **Q. PLEASE DESCRIBE THE EXHIBITS ATTACHED TO YOUR**
15 **TESTIMONY.**

16 A. Miller Exhibit 1 summarizes the individual rider components for which DEC
17 requests approval in this filing. Miller Exhibit 2 shows the calculation of
18 revenue requirements for each vintage, with separate calculations for non-
19 residential DSM and EE programs within each vintage. Miller Exhibit 3
20 presents the return calculations for Vintages 2016, 2017, 2018, 2019, 2020,
21 2021 and 2022. Miller Exhibit 4 shows the actual and estimated prospective
22 amounts collected from customers via Riders 9-14 pertaining to Vintages 2018
23 through 2023. Miller Exhibit 5 provides the calculation of the allocation factors

1 used to allocate system DSM and EE costs to DEC's North Carolina retail
2 jurisdiction. Miller Exhibit 6 presents the forecasted sales for the rate period
3 (2024) and the actual and estimated sales related to customers that have opted
4 out of various vintages. These amounts are used to determine the forecasted
5 sales to which the Rider 15 amounts will apply. Miller Exhibit 7 is the proposed
6 tariff sheet for Rider 15.

7 **Q. WERE MILLER EXHIBITS 1-7 PREPARED BY YOU OR AT YOUR**
8 **DIRECTION AND SUPERVISION?**

9 A. Yes.

10 **II. GENERAL STRUCTURE OF RIDERS**

11 **Q. PLEASE DESCRIBE THE STRUCTURE OF RIDER 15.**

12 A. Rider 15 was calculated in accordance with the Company's portfolio of
13 programs and cost recovery mechanism first approved in the Commission's
14 *Order Approving DSM/EE Programs and Stipulation of Settlement*, issued on
15 October 29, 2013 ("the Stipulation"), in Docket No. E-7, Sub 1032 and the cost
16 recovery and incentive Mechanism ("2020 Mechanism" and collectively, the
17 "Mechanisms") approved in the Commission's *Order Approving Revisions to*
18 *Demand-Side Management and Energy Efficiency Cost Recovery Mechanisms*,
19 issued on October 20, 2020, in Docket Nos. E-2, Sub 931 and E-7, Sub 1032
20 ("2020 Sub 1032 Order").

21 The approved cost recovery mechanism is designed to allow DEC to

1 collect revenue equal to its incurred program costs¹ for a rate period plus a
2 Portfolio Performance Incentive (“PPI”) based on shared savings achieved by
3 DEC’s DSM/EE programs and to recover net lost revenues for EE programs
4 only. In addition, per the 2020 Mechanism, as of 2022, the Income-Qualified
5 EE and Weatherization programs are eligible to receive a Program Return
6 Incentive (“PRI”) based on shared savings achieved by these programs.
7 Witness Fields’s testimony provides additional information on this matter.

8 The Company is allowed to recover net lost revenues associated with a
9 particular vintage of an EE measure for the lesser of 36 months or the life of the
10 measure, provided that the recovery of net lost revenues shall cease upon the
11 implementation of new rates in a general rate case to the extent that the new
12 rates are set to recover net lost revenues.

13 The Company’s Mechanisms employ a vintage year concept based on
14 the calendar year.² In each of its annual rider filings, DEC performs an annual
15 true-up process for the prior calendar year vintages. The true-up will reflect
16 actual participation and verified Evaluation, Measurement and Verification
17 (“EM&V”) results for completed vintages, applied in the same manner as
18 agreed upon by DEC, the Southern Alliance for Clean Energy, and the Public
19 Staff - North Carolina Utilities Commission, and approved by the Commission
20 in its *Order Approving DSM/EE Rider and Requiring Filing of Proposed*

¹ Program costs are defined under Rule R8-68(b)(1) as all reasonable and prudent expenses expected to be incurred by the electric public utility, during a rate period, for the purpose of adopting and implementing new DSM and EE measures previously approved pursuant to Rule R8-68.

² Each vintage is referred to by the calendar year of its respective rate period (*e.g.*, Vintage 2020).

1 *Customer Notice* issued on November 8, 2011, in Docket No. E-7, Sub 979
2 (“EM&V Agreement”). In accordance with the 2020 Sub 1032 Order, DEC
3 continues to apply EM&V in accordance with the EM&V Agreement.

4 The Company has implemented deferral accounting for over- and
5 under-recoveries of costs that are eligible for recovery through the annual
6 DSM/EE rider. The balance in the deferral account(s), net of deferred income
7 taxes, may accrue a return at the net-of-tax rate of return rate approved in DEC’s
8 most recent general rate case. The methodology used for the calculation of
9 interest is required to be the same as that typically utilized for DEC’s Existing
10 DSM Program rider proceedings. Pursuant to Commission Rule R8-69(c)(3),
11 DEC will not accrue a return on net lost revenues or the PPI. Miller Exhibit 3,
12 pages 1 through 22, shows the calculation performed as part of the true-up of
13 Vintage 2016, Vintage 2017, Vintage 2018, Vintage 2019, Vintage 2020,
14 Vintage 2021 and Vintage 2022.

15 The Company expects that most EM&V will be available in the time
16 frame needed to true-up each vintage in the following calendar year. If any
17 EM&V results for a vintage are not available in time for inclusion in DEC’s
18 annual rider filing, however, then the Company will make an appropriate
19 adjustment in the next annual filing.

20 DEC calculates one integrated (prospective) DSM/EE rider and one
21 integrated DSM/EE EMF rider for the residential class, to be effective each rate
22 period. The integrated residential DSM/EE EMF rider includes all true-ups for
23 each applicable vintage year. Given that qualifying non-residential customers

1 can opt out of DSM and/or EE programs, DEC calculates separate DSM and
2 EE billing factors for the non-residential class. Additionally, the non-
3 residential DSM and EE EMF billing factors are determined separately for each
4 applicable vintage year, so that the factors can be appropriately charged to non-
5 residential customers based on their opt-in/out status and participation for each
6 vintage year.

7 **Q. WHAT ARE THE COMPONENTS OF RIDER 15?**

8 A. The prospective components of Rider 15 include: (1) a prospective Vintage
9 2024 component designed to collect program costs and the PPI for DEC's 2024
10 vintage of DSM programs; (2) a prospective Vintage 2024 component to collect
11 program costs, PPI, PRI, and the first year of net lost revenues for DEC's 2024
12 vintage of EE programs; (3) a prospective Vintage 2023 component designed
13 to collect the second year of estimated net lost revenues for DEC's 2023 vintage
14 of EE programs; (4) a prospective Vintage 2022 component designed to collect
15 the third year of estimated net lost revenues for DEC's 2022 vintage of EE
16 programs; and (5) a prospective Vintage 2021 component designed to collect
17 the fourth year of estimated lost revenues for DEC's 2021 vintage of EE
18 programs. The EMF components of Rider 15 include: (1) a true-up of Vintages
19 2016 and 2017 PPI and participation for the MyHER program based on
20 additional EM&V results received; (2) a true-up of Vintage 2018 lost revenues,
21 PPI and participation for DSM/EE programs based on additional EM&V results
22 received; (3) a true-up of Vintage 2019 lost revenues, PPI and participation for
23 DSM/EE programs based on additional EM&V results received; (4) a true-up

1 of Vintage 2020 lost revenues, PPI and participation for DSM/EE programs
2 based on additional EM&V results received; (5) a true-up of Vintage 2021 lost
3 revenues, PPI and participation for DSM/EE programs based on additional
4 EM&V results received; and (6) a true-up of Vintage 2022 lost revenues,
5 program costs, PPI and PRI for DSM/EE programs.

6 **Q. HOW DOES DEC CALCULATE THE PROPOSED BILLING**
7 **FACTORS?**

8 A. The billing factor for residential customers is computed by dividing the
9 combined revenue requirements for DSM and EE programs by the forecasted
10 sales for the rate period. For non-residential rates, the billing factors are
11 computed by dividing the revenue requirements for DSM and EE programs
12 separately by forecasted sales for the rate period. The forecasted sales exclude
13 the estimated sales to customers who have elected to opt out of Rider EE.
14 Because non-residential customers are allowed to opt out of DSM and/or EE
15 programs separately in an annual election, non-residential billing factors are
16 computed separately for each vintage.

17 **III. COST ALLOCATION METHODOLOGY**

18 **Q. HOW DOES DEC ALLOCATE REVENUE REQUIREMENTS TO THE**
19 **NORTH CAROLINA RETAIL JURISDICTION AND TO THE**
20 **RESIDENTIAL AND NON-RESIDENTIAL RATE CLASSES?**

21 A. The Company allocates the revenue requirements related to program costs and
22 incentives for EE programs targeted at retail residential customers across North
23 Carolina and South Carolina to its North Carolina retail jurisdiction based on

1 the ratio of North Carolina retail kWh sales (grossed up for line losses) to total
2 retail kWh sales (grossed up for line losses), and then recovers them only from
3 North Carolina residential customers. The revenue requirements related to EE
4 programs targeted at retail non-residential customers across North Carolina and
5 South Carolina are allocated to the North Carolina retail jurisdiction based on
6 the ratio of North Carolina retail kWh sales (grossed up for line losses) to total
7 retail kWh sales (grossed up for line losses), and then recovered from only
8 North Carolina retail non-residential customers. The portion of revenue
9 requirements related to net lost revenues for EE programs is not allocated to the
10 North Carolina retail jurisdiction, but rather is specifically computed based on
11 the kW and kWh savings of North Carolina retail customers.

12 Historically, the Company has calculated the NC Revenue Requirement
13 for Demand Response programs using both the state allocation factor and a
14 second Residential/Non-Residential allocation factor, based on the percent of
15 peak demand of each customer class. However, beginning with vintage 2022,
16 the Company is calculating the NC Revenue Requirement using only the state
17 allocation and not the Residential/Non-Residential Peak Demand factor (as
18 shown in Fields Exhibit 1, page 7, and reflected in Miller Exhibit 3, pages 20
19 and 22). This results in a more accurate representation of each customer class
20 bearing the revenue requirement of the demand response programs offered to
21 that class.

22 The allocation factors used in DSM/EE EMF true-up calculations for
23 each vintage are based on DEC's most recently filed Cost of Service studies at

1 the time that the Rider EE filing incorporating the initial true-up for each
2 vintage is made. If there are subsequent true-ups for a vintage, DEC will use
3 the same allocation factors as those used in the original DSM/EE EMF true-up
4 calculations.

5 **IV. UTILITY INCENTIVES AND NET LOST REVENUES**

6 **Q. HOW DOES DEC CALCULATE THE PPI AND PRI?**

7 A. Pursuant to the Stipulation, DEC calculates the dollar amount of PPI by
8 multiplying the shared savings achieved by the system portfolio of DSM/EE
9 programs by 11.5% prior to 2022. Pursuant to the 2020 Mechanism and related
10 Sub 1032 orders, starting in 2022, this percentage is lowered to 10.6%. In
11 addition, as discussed above, Income-Qualified EE and Weatherization
12 programs are eligible to receive a PRI.

13 Company witness Fields further describes the specifics of the PPI and
14 PRI calculations in his testimony. In addition, Fields Exhibit 1, pages 1 through
15 7, shows the revised PPI for Vintage 2016, Vintage 2017, Vintage 2018,
16 Vintage 2019, Vintage 2020, Vintage 2021, and Vintage 2022 respectively,
17 based on updated EM&V results, and Fields Exhibit 1, page 8, shows the
18 estimated PPI and PRI by program type and customer class for Vintage 2024.
19 The system amount of PPI and PRI is then allocated to North Carolina retail
20 customer classes to derive customer rates.

21 **Q. HOW DOES DEC CALCULATE THE NET LOST REVENUES FOR**
22 **THE PROSPECTIVE COMPONENTS OF RIDER EE?**

1 A. For the prospective components of Rider EE, net lost revenues are estimated by
2 multiplying the portion of DEC’s tariff rates that represent the recovery of fixed
3 costs by the estimated North Carolina retail kW and kWh reductions applicable
4 to EE programs by rate schedule, and reducing this amount by estimated found
5 revenues. The Company calculates the portion of North Carolina retail tariff
6 rates (including certain riders) representing the recovery of fixed costs by
7 deducting the recovery of fuel and variable operation and maintenance
8 (“O&M”) costs from its tariff rates. The lost revenues totals for residential and
9 non-residential customers are then reduced by North Carolina retail found
10 revenues computed using the weighted average lost revenue rates for each
11 customer class. The testimony and exhibits of Company witness Fields provide
12 information on the actual and estimated found revenues which offset lost
13 revenues.

14 **Q. HOW DOES DEC CALCULATE THE NET LOST REVENUES FOR**
15 **THE EMF COMPONENTS OF RIDER EE?**

16 A. For the EMF components of Rider EE, DEC calculates the net lost revenues by
17 multiplying the portion of its tariff rates that represent the recovery of fixed
18 costs by the actual and verified North Carolina retail kW and kWh reductions
19 applicable to EE programs by rate schedule, then reducing this amount by actual
20 found revenues.

21 **V. OPT-OUT PROVISIONS**

22 **Q. PLEASE EXPLAIN THE OPT-OUT PROCESS FOR NON-**
23 **RESIDENTIAL CUSTOMERS.**

1 A. Pursuant to the Commission’s *Order Granting Waiver, in Part, and Denying*
2 *Waiver, in Part* (“Waiver Order”) issued April 6, 2010, in Docket No. E-7, Sub
3 938 and the Sub 1032 Orders, the Company is allowed to permit qualifying non-
4 residential customers³ to opt out of the DSM and/or EE portion of Rider EE
5 during annual election periods. If a customer opts into a DSM program (or
6 never opted out), the customer is required to participate for three years in the
7 approved DSM programs and rider. If a customer chooses to participate in an
8 EE program (or never opted out), that customer is required to pay the EE-related
9 program costs, shared savings incentive and the net lost revenues for the
10 corresponding vintage of the programs in which it participated. Customers that
11 opt out of DEC’s DSM and/or EE programs remain opted-out unless they
12 choose to opt back in during any of the succeeding annual election periods,
13 which occur from November 1 to December 31 each year, or any of the
14 succeeding annual opt-in periods in March as described below. If a customer
15 participates in any vintage of programs, the customer is subject to all true-up
16 provisions of the approved Rider EE for any vintage in which the customer
17 participates.

18 DEC provides an additional opportunity for qualifying customers to opt
19 in to DEC’s DSM and/or EE programs during the first five business days of
20 March. Customers who choose to begin participating in DEC’s EE and DSM
21 programs during the special “opt-in period” during March of each year will be

³ Individual commercial customer accounts with annual energy usage of not less than 1,000,000 kWh and any industrial customer account.

1 retroactively billed the applicable Rider EE amounts back to January 1 of the
2 vintage year, such that they will pay the appropriate Rider EE amounts for the
3 full rate period.

4 **Q. DOES DEC ADJUST THE RATE FOR NON-RESIDENTIAL**
5 **CUSTOMERS TO ACCOUNT FOR THE IMPACT OF “OPT-OUT”**
6 **CUSTOMERS?**

7 A. Yes. The impact of opt-out results is considered in the development of the Rider
8 EE billing rates for non-residential customers. Since the revenue requirements
9 will not be recovered from non-residential customers that opt out of DEC’s
10 programs, the forecasted sales used to compute the rate per kWh for non-
11 residential rates exclude sales to customers that have opted out of the vintage to
12 which the rate applies. This adjustment is shown on Miller Exhibit 6.

13 **VI. PROSPECTIVE COMPONENTS**

14 **Q. WHAT IS THE RATE PERIOD FOR THE PROSPECTIVE**
15 **COMPONENTS OF RIDER 15?**

16 A. In accordance with the Commission’s *Order on Motions for Reconsideration*
17 issued on June 3, 2010, in Docket No. E-7, Sub 938 (“Second Waiver Order”)
18 and the 2020 Mechanism, DEC has calculated the prospective components of
19 Rider 15 using the rate period January 1, 2024 through December 31, 2024.

20 **Q. PLEASE DESCRIBE THE BASIS FOR THE RATE PERIOD REVENUE**
21 **REQUIREMENTS RELATING TO VINTAGE 2021.**

22 A. The Company determines the estimated revenue requirements for Vintage 2021
23 separately for residential and non-residential customer classes and bases them

1 on the fourth year of net lost revenues for its Vintage 2021 EE programs. The
2 amounts are based on estimated North Carolina retail kW and kWh reductions
3 and DEC's rates approved in its most recent general rate case, which became
4 effective June 1, 2021, adjusted as described above to recover only the fixed
5 cost component.

6 **Q. PLEASE DESCRIBE THE BASIS FOR THE RATE PERIOD REVENUE**
7 **REQUIREMENTS RELATING TO VINTAGE 2022.**

8 A. The Company determines the estimated revenue requirements for Vintage 2022
9 separately for residential and non-residential customer classes and bases them
10 on the third year of net lost revenues for its Vintage 2022 EE programs. The
11 amounts are based on estimated North Carolina retail kW and kWh reductions
12 and DEC's rates approved in its most recent general rate case, which became
13 effective June 1, 2021, adjusted as described above to recover only the fixed
14 cost component.

15 **Q. PLEASE DESCRIBE THE BASIS FOR THE RATE PERIOD REVENUE**
16 **REQUIREMENTS RELATING TO VINTAGE 2023.**

17 A. The Company determines the estimated revenue requirements for Vintage 2023
18 separately for residential and non-residential customer classes and bases them
19 on the second year of net lost revenues for its Vintage 2023 EE programs. The
20 amounts are based on estimated North Carolina retail kW and kWh reductions
21 and DEC's rates approved in its most recent general rate case, which became
22 effective June 1, 2021, adjusted as described above to only recover the fixed
23 cost component.

1 **Q. PLEASE DESCRIBE THE BASIS FOR THE RATE PERIOD REVENUE**
2 **REQUIREMENTS RELATING TO VINTAGE 2024.**

A. The estimated revenue requirements for Vintage 2024 EE programs include program costs, PPI, PRI and the first year of net lost revenues determined separately for residential and non-residential customer classes. The estimated revenue requirements for Vintage 2024 DSM programs include program costs and PPI. The program costs and shared savings incentive are computed at the system level and allocated to North Carolina based on the allocation methodologies discussed earlier in my testimony. The amounts are based on estimated North Carolina retail kW and kWh reductions and DEC's rates approved in its most recent general rate case, which became effective June 1, 2021, adjusted as described above to only recover the fixed cost component.

13

14 **Q. WHAT IS THE TEST PERIOD FOR THE EMF COMPONENT?**

A. Pursuant to the Second Waiver Order and the Stipulation, the test period for the EMF component is defined as the most recently completed vintage year at the time of DEC's Rider EE cost recovery application filing date, which in this case is Vintage 2022 (January 1, 2022 through December 31, 2022). In addition, the Second Waiver Order allows the EMF component to cover multiple test periods, so the EMF component for Rider 15 includes Vintage 2016 (January 2016 through December 2016), Vintage 2017 (January 2017 through December 2017), Vintage 2018 (January 2018 through December 2018), Vintage 2019 (January 2019 through December 2019), Vintage 2020 (January 2020 through

1 December 2020) and Vintage 2021 (January 2021 through December 2021) as
2 well.

3 **Q. WHAT IS BEING TRUED UP FOR VINTAGE 2022?**

4 A. The chart below demonstrates which components of the Vintage 2022 estimate
5 filed in 2021 are being trued up in the Vintage 2021 EMF component of Rider
6 15. Miller Exhibit 2, page 5 contains the calculation of the true-up for Vintage
7 2022. The second year of net lost revenues for Vintage 2022, which are a
8 component of Rider 14 billings during 2023, will be trued up to actual amounts
9 during the next rider filing.

	Vintage 2022 Estimate (2022) As Filed (Filed 2021)	Vintage 2022 True-Up (2022) (Filed February 2023)
	Rider 13	Rider 15 EMF
Participation	Estimated participation using half-year convention	Update for actual participation for January 2022 – December 2022
EM&V	Initial assumptions of load impacts	Updated according to Commission-approved EM&V Agreement
Lost Revenues	Estimated 2022 participation using half-year convention	Update for actual participation for January 2022 – December 2022 and actual 2022 lost revenue rates
Found Revenues	Estimated according to Commission-approved guidelines	Update for actual according to Commission-approved guidelines
New Programs	Only includes programs approved prior to estimated filing	Update for any new programs and pilots approved and implemented since estimated filing

10

11 In addition, DEC has implemented deferral accounting for the
12 under/over collection of program costs and calculated a return at the net-of-tax
13 rate of return rate approved in DEC's most recent general rate case. The
14 methodology used for the calculation of return is the same as that typically

1 utilized for DEC's Existing DSM Program rider proceedings. Pursuant to
2 Commission Rule R8-69(c)(3), DEC is not accruing a return on net lost
3 revenues or the PPI. Please see Miller Exhibit 3, pages 1 through 22 for the
4 calculation performed as part of the true-up of Vintage 2016, Vintage 2017,
5 Vintage 2018, Vintage 2019, Vintage 2020, Vintage 2021 and Vintage 2022.

6 **Q. HOW WERE THE LOAD IMPACTS UPDATED?**

7 A. For DSM programs, the contracted amounts of kW reduction capability from
8 participants are considered to be components of actual participation. As a
9 result, the Vintage 2022 true-up reflects the actual quantity of demand reduction
10 capability for the Vintage 2022 period. The load impacts for EE programs were
11 updated in accordance with the Commission-approved EM&V Agreement.

12 **Q. HOW WERE ACTUAL NET LOST REVENUES COMPUTED FOR**
13 **THE VINTAGE 2022 TRUE-UP?**

14 A. Net lost revenues for year one (2022) of Vintage 2022 were calculated using
15 actual kW and kWh savings by North Carolina retail participants by customer
16 class based on actual participation and load impacts reflecting EM&V results
17 applied according to the EM&V Agreement. The actual kW and kWh savings
18 were as experienced during the period January 1, 2022 through December 31,
19 2022. The rates applied to the kW and kWh savings are the retail rates that
20 were in effect for the period January 1, 2022 through December 31, 2022,
21 reduced by fuel and other variable costs. The lost revenues were then offset by
22 actual found revenues for year one of Vintage 2022 as explained by Company

1 witness Fields. The calculation of net lost revenues was performed by rate
2 schedule within the residential and non-residential customer classes.

3 **Q. WHAT IS BEING TRUED UP FOR VINTAGE 2021?**

4 A. Avoided costs for Vintage 2021 DSM programs are being trued up to update
5 EM&V participation results. Avoided costs for Vintage 2021 EE programs are
6 also being trued up based on updated EM&V results. The actual kW and kWh
7 savings were as experienced during the period January 1, 2021 through
8 December 31, 2021. The rates applied to the kW and kWh savings are the retail
9 rates that were in effect during each period the lost revenues were earned,
10 reduced by fuel and other variable costs.

11 **Q. WHAT IS BEING TRUED UP FOR VINTAGE 2020?**

12 A. Net lost revenues for all years were trued up for updated EM&V results. The
13 actual kW and kWh savings were as experienced during the period January 1,
14 2020 through December 31, 2020. The rates applied to the kW and kWh
15 savings are the retail rates that were in effect during each period the lost
16 revenues were earned, reduced by fuel and other variable costs.

17 **Q. WHAT IS BEING TRUED UP FOR VINTAGE 2019?**

18 A. Net lost revenues for all years were trued up for updated EM&V results. The
19 actual kW and kWh savings were as experienced during the period January 1,
20 2019 through December 31, 2019. The rates applied to the kW and kWh
21 savings are the retail rates that were in effect during each period the lost
22 revenues were earned, reduced by fuel and other variable costs.

23 **Q. WHAT IS BEING TRUED UP FOR VINTAGE 2018?**

1 A. Net lost revenues for all years were trued up for updated EM&V results. The
2 actual kW and kWh savings were as experienced during the period January 1,
3 2018 through December 31, 2018. The rates applied to the kW and kWh
4 savings are the retail rates that were in effect during each period the lost
5 revenues were earned, reduced by fuel and other variable costs.

6 **Q. WHAT IS BEING TRUED UP FOR VINTAGE YEARS 2016 AND 2017?**

7 A. Avoided costs, specifically the incentive earned for Vintage 2016 and Vintage
8 2017 related to the MyHER program, were trued up for updated EM&V results.

9 **VIII. PROPOSED RATES**

10 **Q. WHAT ARE THE PROPOSED INITIAL BILLING FACTORS**
11 **APPLICABLE TO NORTH CAROLINA ELECTRIC CUSTOMERS**
12 **FOR THE PROSPECTIVE COMPONENTS OF RIDER 15?**

13 A. The Company's proposed initial billing factor for the Rider 15 prospective
14 components is 0.4320 cents per kWh for DEC's North Carolina retail residential
15 customers. For non-residential customers, the amounts differ depending upon
16 customer elections of participation. The following chart depicts the options and
17 rider amounts:

Non-Residential Billing Factors for Rider 15 Prospective Components	¢/kWh
Vintage 2021 EE participant	0.0313
Vintage 2022 EE participant	0.0468
Vintage 2023 EE participant	0.0802
Vintage 2024 EE participant	0.3869
Vintage 2024 DSM participant	0.0897

1 **Q. WHAT ARE DEC’S PROPOSED EMF BILLING FACTORS**
2 **APPLICABLE TO NORTH CAROLINA ELECTRIC CUSTOMERS**
3 **FOR THE TRUE-UP COMPONENTS OF RIDER 15?**

4 A. The Company’s proposed EMF billing factor for the true-up components of
5 Rider 15 is (0.0503) cents per kWh for DEC’s North Carolina retail residential
6 customers. For non-residential customers, the amounts differ depending upon
7 customer elections of participation. The following chart depicts the options and
8 rider amounts:

Non-Residential Billing Factors for Rider 15 EMF Components	¢/kWh
Vintage 2018 EE participant	(0.0001)
Vintage 2018 DSM participant	0.0000
Vintage 2019 EE participant	(0.0014)
Vintage 2019 DSM participant	(0.0001)
Vintage 2020 EE Participant	(0.0068)
Vintage 2020 DSM Participant	0.0002
Vintage 2021 EE Participant	(0.0082)
Vintage 2021 DSM Participant	(0.0073)
Vintage 2022 EE Participant	(0.1732)
Vintage 2022 DSM Participant	(0.0017)

9 **IX. CONCLUSION**

10 **Q. PLEASE SUMMARIZE THE SPECIFIC RATE MAKING APPROVAL**
11 **REQUESTED BY DEC.**

1 A. DEC seeks approval of the Rider 15 billing factors to be effective throughout
2 2024. As discussed above, Rider 15 contains (1) a prospective component,
3 which includes the fourth year of net lost revenues for non-residential Vintage
4 2021, the third year of net lost revenues for Vintage 2022, the second year of
5 net lost revenues for Vintage 2023, and the revenue requirements for Vintage
6 2024; and (2) an EMF component which represents a true-up of Vintage 2016,
7 Vintage 2017, Vintage 2018, Vintage 2019, Vintage 2020, Vintage 2021 and
8 Vintage 2022. Consistent with the Stipulation, for DEC's North Carolina
9 residential customers, the Company calculated one integrated prospective
10 billing factor and one integrated EMF billing factor for Rider 15. Also in
11 accordance with the Stipulation, the non-residential DSM and EE billing factors
12 have been determined separately for each vintage year and will be charged to
13 non-residential customers based on their opt-in/out status and participation for
14 each vintage year.

15 **Q. DOES THIS CONCLUDE YOUR PRE-FILED DIRECT TESTIMONY?**

16 A. Yes.

DSM/EE Cost Recovery Rider 15
Docket Number E-7 Sub 1285
Exhibit Summary of Rider EE Exhibits and Factors

Residential Billing Factor for Rider 15 True-up (EMF) Components

Line			
1	Year 2016 EE/DSM True-Up (EMF) Revenue Requirement	Fields Exh 1 pg 1 (2016) Line 9 + Listebarger Exh 3 pg 1 * Exh 2 pg 8	\$ (4,349)
2	Year 2017 EE/DSM True-Up (EMF) Revenue Requirement	Fields Exh 1 pg 1 (2017) Line 9 + Listebarger Exh 3 pg 2 * Exh 2 pg 8	\$ (289,186)
3	Year 2018 EE/DSM True-Up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 1, Line 15	(395,816)
4	Year 2019 EE/DSM True-Up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 2, Line 15	(422,560)
5	Year 2020 EE/DSM True-Up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 3, Line 15	(1,106,993)
6	Year 2021 EE/DSM True-Up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 4, Line 15	(767,503)
7	Year 2022 EE/DSM True-Up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 5, Line 15	(8,926,802)
8	Total True-up (EMF) Revenue Requirement	Sum Lines 1-7	\$ (11,913,210)
9	Projected NC Residential Sales (kWh) for rate period	Listebarger Exhibit 6, Line 1	23,664,202,369
10	EE/DSM Revenue Requirement EMF Residential Rider EE (cents per kWh)	Line 8 / Line 9 * 100	(0.0503)

Residential Billing Factor for Rider 15 Prospective Components

11	Vintage 2021 Total EE/DSM Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 4, Line 15	1,915,275
12	Vintage 2022 Total EE/DSM Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 5, Line 15	4,813,237
13	Vintage 2023 Total EE/DSM Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 6, Line 1	6,787,155
14	Vintage 2024 Total EE/DSM Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 7, Line 11	88,723,534
15	Total Prospective Revenue Requirement	Sum Lines 11-14	\$ 102,239,200
16	Projected NC Residential Sales (kWh) for rate period	Listebarger Exhibit 6, Line 1	23,664,202,369
17	EE/DSM Revenue Requirement Prospective Residential Rider EE (cents per kWh)	Line 15 / Line 16 * 100	0.4320

Total Revenue Requirements in Rider 15 from Residential Customers

18	Total True-up (EMF) Revenue Requirement	Line 8	\$ (11,913,210)
19	Total Prospective Revenue Requirement	Line 15	102,239,200
20	Total EE/DSM Revenue Requirement for Residential Rider EE	Line 18 + Line 19	\$ 90,325,990
21	Total EE/DSM Revenue Requirement for Residential Rider EE (cents per kWh)	Line 10 + Line 17	0.3817

Non-Residential Billing Factors for Rider 15 True-up (EMF) Components

22	Vintage Year 2018 EE True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 1, Line 25	\$ (21,684)
23	Projected Year 2018 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 4	17,157,930,277
24	EE Revenue Requirement Year 2018 EMF Non-Residential Rider EE (cents per kWh)	Line 22 / Line 23 * 100	(0.0001)
25	Vintage Year 2018 DSM True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 1, Line 35	\$ 3,086
26	Projected Year 2018 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 5	18,516,675,854
27	DSM Revenue Requirement Year 2018 EMF Non-Residential Rider EE (cents per kWh)	Line 25 / Line 26 * 100	-
28	Vintage Year 2019 EE True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 2, Line 25	\$ (235,521)
29	Projected Year 2019 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 6	17,136,255,406
30	EE Revenue Requirement Year 2019 EMF Non-Residential Rider EE (cents per kWh)	Line 28 / Line 29 * 100	(0.0014)
31	Vintage Year 2019 DSM True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 2, Line 35	\$ (21,406)
32	Projected Year 2019 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 7	18,570,220,915
33	DSM Revenue Requirement Year 2019 EMF Non-Residential Rider EE (cents per kWh)	Line 31 / Line 32 * 100	(0.0001)
34	Vintage Year 2020 EE True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 3, Line 25	\$ (1,128,887)
35	Projected Year 2020 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 8	16,575,789,097
36	EE Revenue Requirement Year 2020 EMF Non-Residential Rider EE (cents per kWh)	Line 34 / Line 35 * 100	(0.0068)
37	Vintage Year 2020 DSM True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 3, Line 35	\$ 32,287
38	Projected Year 2020 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 9	18,635,398,667
39	DSM Revenue Requirement Year 2020 EMF Non-Residential Rider EE (cents per kWh)	Line 37 / Line 38 * 100	0.0002
40	Vintage Year 2021 EE True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 4, Line 25	\$ (1,363,988)
41	Projected Year 2021 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 10	16,652,048,700
42	EE Revenue Requirement Year 2021 EMF Non-Residential Rider EE (cents per kWh)	Line 40 / Line 41 * 100	(0.0082)
43	Vintage Year 2021 DSM True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 4, Line 35	\$ (1,367,038)
44	Projected Year 2021 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 11	18,677,101,757
45	DSM Revenue Requirement Year 2021 EMF Non-Residential Rider EE (cents per kWh)	Line 43 / Line 44 * 100	(0.0073)
46	Vintage Year 2022 EE True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 5, Line 25	\$ (29,006,401)
47	Projected Year 2022 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 12	16,744,193,880
48	EE Revenue Requirement Year 2022 EMF Non-Residential Rider EE (cents per kWh)	Line 46 / Line 47 * 100	(0.1732)
49	Vintage Year 2022 DSM True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 5, Line 35	\$ (329,369)
50	Projected Year 2022 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 13	18,855,570,769
51	DSM Revenue Requirement Year 2022 EMF Non-Residential Rider EE (cents per kWh)	Line 49 / Line 50 * 100	(0.0017)

DSM/EE Cost Recovery Rider 15
Docket Number E-7 Sub 1285
Exhibit Summary of Rider EE Exhibits and Factors

Non-Residential Billing Factors for Rider 15 Prospective Components

52	Vintage Year 2021 EE Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 4, Line 25	\$	5,211,948
53	Projected Vintage 2021 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 10		16,652,048,700
54	EE Revenue Requirement Vintage 2021 Prospective Component - Non-Residential Rider EE (cents per kWh)	Line 52 / Line 53 * 100		0.0313
55	Vintage Year 2022 EE Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 5, Line 25	\$	7,844,523
56	Projected Vintage 2022 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 12		16,744,193,880
57	EE Revenue Requirement Vintage 2022 Prospective Component - Non-Residential Rider EE (cents per kWh)	Line 55 / Line 56 * 100		0.0468
58	Vintage Year 2023 EE Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 6, Line 4	\$	14,155,374
59	Projected Vintage 2023 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 14		17,655,241,326
60	EE Revenue Requirement Vintage 2023 Prospective Component - Non-Residential Rider EE (cents per kWh)	Line 58 / Line 59 * 100		0.0802
61	Vintage Year 2024 EE Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 7, Line 18	\$	68,313,371
62	Projected Vintage 2024 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 16		17,655,241,326
63	EE Revenue Requirement Vintage 2024 Prospective Component - Non-Residential Rider EE (cents per kWh)	Line 61 / Line 62 * 100		0.3869
64	Vintage Year 2024 DSM Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 7, Line 25	\$	17,086,774
65	Projected Vintage 2024 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 17		19,059,148,493
66	DSM Revenue Requirement Vintage 2024 Prospective Component - Non-Residential Rider EE (cents per kWh)	Line 64 / Line 65 * 100		0.0897
	Total Prospective Rate			(0.1986) 0.6349

Total Revenue Requirements in Rider 15 from Non-Residential Customers

65	Vintage Year 2018 EE True-up (EMF) Revenue Requirement	Line 22	(21,684)
66	Vintage Year 2018 DSM True-up (EMF) Revenue Requirement	Line 25	3,086
67	Vintage Year 2019 EE True-up (EMF) Revenue Requirement	Line 28	(235,521)
68	Vintage Year 2019 DSM True-up (EMF) Revenue Requirement	Line 31	(21,406)
69	Vintage Year 2020 EE True-up (EMF) Revenue Requirement	Line 34	(1,128,887)
70	Vintage Year 2020 DSM True-up (EMF) Revenue Requirement	Line 37	32,287
71	Vintage Year 2021 EE True-up (EMF) Revenue Requirement	Line 40	(1,363,988)
72	Vintage Year 2021 DSM True-up (EMF) Revenue Requirement	Line 43	(1,367,038)
73	Vintage Year 2022 EE True-up (EMF) Revenue Requirement	Line 46	(29,006,401)
74	Vintage Year 2022 DSM True-up (EMF) Revenue Requirement	Line 49	(329,369)
75	Vintage Year 2021 EE Prospective Amounts Revenue Requirement	Line 52	5,211,948
76	Vintage Year 2022 EE Prospective Amounts Revenue Requirement	Line 55	7,844,523
77	Vintage Year 2023 EE Prospective Amounts Revenue Requirement	Line 58	14,155,374
78	Vintage Year 2024 EE Prospective Amounts Revenue Requirement	Line 61	68,313,371
79	Vintage Year 2024 DSM Prospective Amounts Revenue Requirement	Line 64	17,086,774
	Total Non-Residential Revenue Requirement in Rider 15	Sum (Lines 65-79)	79,173,068

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
True Up of Lost Revenues for Vintage Year 2018

RESIDENTIAL Energy Efficiency Programs

Line	Reference	E-7 Sub 1130 Rider 9 Year 1 Estimate	E-7 Sub 1164 Year 2018 Yr 2 LR Estimate	E-7 Sub 1192 Rider 11 True up	E-7 Sub 1192 Year 2018 Year 3 Estimate	E-7 Sub 1230 Rider 12 True Up	E-7 Sub 1230 Year 2018 Yr 4 LR Estimate	E-7 Sub 1249 Rider 13 True up	E-7 Sub 1265 Rider 14 True up	E-7 Sub 1285 Rider 15 True up	Year 2018
1	Residential EE Program Cost	41,623,609		14,606,717		\$ (0)		\$ -	\$ -	\$ -	\$ 56,230,326
2	Residential EE Earned Utility Incentive	5,511,264		4,154,068		140,649		(22,279)	157,616	(39,495)	9,901,824
3	Return on overcollection of Residential EE Program Costs			244,540		1,024,850		750,744	(2,580)	(104,676)	1,912,878
4	Total EE Program Cost and Incentive Components	47,134,873		19,005,325		1,165,498		728,465	155,036	(144,170)	68,045,027
5	Residential DSM Program Cost	9,903,130		(124,239)		0		-	-	-	9,778,895
6	Residential DSM Earned Utility Incentive	2,569,925		17,215		(5,581)		(289)	573	(297)	2,581,546
7	Return on undercollection of Residential DSM Program Costs			(28,626)		(40,884)		(21,193)	18,109	(17,995)	(90,588)
8	Total DSM Program Cost and Incentive Components	12,473,055		(135,646)		(46,465)		(21,481)	18,682	(18,292)	12,269,853
9	Total EE/DSM Program Cost and Incentive Components	59,607,928		18,869,679		1,119,034		706,984	173,718	(162,463)	80,314,880
10	Revenue-related taxes and regulatory fees factor **	1,001402		1,001352		1,001302		1,001352	1,001402	1,001402	
11	Total EE/DSM Program Cost and Incentive Revenue Requirement	59,691,498		18,895,191		1,120,491		707,940	173,962	(162,691)	80,426,391
12	Residential Net Lost Revenues	19,612,717	6,294,025	894,901	9,715,212	1,534,156	-	2,310,499	(86,953)	(194,096)	40,080,462
13	Total Residential EE/DSM Revenue Requirement	79,304,216	6,294,025	19,790,092	9,715,212	2,654,647	-	3,018,439	87,009	(356,786)	120,506,852
14	Total Collected for Vintage Year 2018 (through estimated Rider 15)										120,902,668
15	Total Residential EE/DSM Revenue Requirement										\$ (395,816)

Note: No prospective Year 4 lost revenue is included in this exhibit because the rate case test period was extended for residential customers.

See Listebarger Exhibit A for rate

NON-RESIDENTIAL Energy Efficiency Programs

Line	Reference	E-7 Sub 1130 Rider 9 Year 1 Estimate	E-7 Sub 1164 Year 2018 Yr 2 LR Estimate	E-7 Sub 1192 Rider 11 True up	E-7 Sub 1192 Year 2018 Year 3 Estimate	E-7 Sub 1230 Rider 12 True Up	E-7 Sub 1230 Year 2018 Yr 4 LR Estimate	E-7 Sub 1249 Rider 13 True up	E-7 Sub 1265 Rider 14 True up	E-7 Sub 1285 Rider 15 True up	Year 2018
16	Non-Residential EE Program Cost	40,592,949		(3,317,005)		0		-	-	-	37,275,944
17	Non-Residential EE Earned Utility Incentive	11,623,199		2,818,045		(25,396)		(2,366)	-	(10,650)	14,402,832
18	Return on undercollection of Non-residential EE Program Costs			461,049		592,305		407,815	49,904	(54,943)	1,456,132
19	Total EE Program Cost and Incentive Components	52,216,148		(37,911)		566,910		405,450	49,904	(65,593)	53,134,908
20	Revenue-related taxes and regulatory fees factor	1,001402		1,001352		1,001302		1,001352	1,001402	1,001402	
21	Total Non-Residential EE Program Cost & Incentive Revenue Requirements	52,289,355		(37,962)		567,648		405,998	49,974	(65,685)	53,209,328
22	Non-Residential Net Lost Revenues	5,167,253	12,285,044	2,933,863	9,507,185	(1,090,744)	2,182,027	(2,020,437)	(47,064)	(3,539,044)	25,378,082
23	Total Non-Residential EE Revenue Requirement	57,456,608	12,285,044	2,895,901	9,507,185	(523,097)	2,182,027	(1,614,439)	2,910	(3,604,729)	78,587,410
24	Total Collected for Vintage Year 2018 (through estimated Rider 15)										78,609,094
25	Non-Residential EE Revenue Requirement										(21,684)
26	Projected NC Residential Sales (kWh)										17,157,930,277
27	NC Non-Residential EE billing factor (Cents/kWh)										(0.0001)

DSM Programs

Line	Reference	E-7 Sub 1130 Rider 9 Year 1 Estimate	E-7 Sub 1192 Rider 11 True up	E-7 Sub 1230 Rider 12 True Up	E-7 Sub 1249 Rider 13 True up	E-7 Sub 1265 Rider 14 True up	E-7 Sub 1285 Rider 15 True up	Year 2018
28	Non-Residential DSM Program Cost	11,959,889	651,281	(0)	-	-	-	12,611,170
29	Non-Residential DSM Earned Utility Incentive	3,103,667	232,789	(7,197)	(372)	739	(384)	3,329,242
30	Return on undercollection of Non-residential DSM Program Costs	-	37,743	76,651	54,598	40,422	(31,313)	178,101
31	Total Non-Residential DSM Program Cost and Incentive Components	15,063,556	921,813	69,454	54,225	41,161	(31,697)	16,118,513
32	Revenue-related taxes and regulatory fees factor	1,001402	1,001352	1,001302	1,001352	1,001402	1,001402	
33	Total Non-Residential DSM Revenue Requirement	15,084,675	923,059	69,544	54,299	41,219	(31,741)	16,141,055
34	Total Collected for Vintage Year 2018 (through estimated Rider 15)							16,137,969
35	Non-Residential EE Revenue Requirement True-up Amount							3,086
36	Projected NC Non-Residential Sales (kWh)							18,516,675,854
37	NC Non-Residential DSM billing factor							-

** Actual regulatory fee rate in effect in year of collection. May differ from original filed estimates.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
True Up of Year 1, 2, 3 and 4 Lost Revenues for Vintage Year 2019

RESIDENTIAL Energy Efficiency Programs

Line	Reference	E-7 Sub 1164 Rider 10 Year 1 Estimate	E-7 Sub 1192 Year 2019 Yr 2 LR Estimate	E-7 Sub 1230 Rider 12 True up	E-7 Sub 1230 Year 2019 Yr 3 LR Estimate	E-7 Sub 1249 Rider 13 True up	E-7 Sub 1249 Year 2020 Yr 4 LR Estimate	E-7 Sub 1265 Rider 14 True up	E-7 Sub 1285 Rider 15 True up	Year 2019
1	Residential EE Program Cost	\$ 41,002,874		\$ 13,243,503		\$ (0)		\$ 0	\$ -	\$ 54,246,377
2	Residential EE Earned Utility Incentive	3,801,819		3,296,056		(124,962)		90,385	(34,414)	7,028,884
3	Return on undercollection of Residential EE Program Costs			55,738		750,744		511,698	(195)	1,317,985
4	Total EE Program Cost and Incentive Components	44,804,694		16,595,296		625,782		602,083	(34,609)	62,593,246
5	Residential DSM Program Cost	10,577,352		(308,751)		(0)		(0)	-	10,268,601
6	Residential DSM Earned Utility Incentive	2,773,086		541,821		0		26,383	(205)	3,341,085
7	Return on undercollection of Residential DSM Program Costs			(6,600)		(21,193)		5,935	2,555	(19,302)
8	Total DSM Program Cost and Incentive Components	13,350,438		226,469		(21,193)		32,318	2,351	13,590,384
9	Total EE/DSM Program Cost and Incentive Components	58,155,132		16,821,766		604,589		634,402	(32,258)	76,183,630
10	Revenue-related taxes and regulatory fees factor **	1.001402		1.001352		1.001352		1.001402	1.001402	
11	Total EE/DSM Program Cost and Incentive Revenue Requirement	58,236,665		16,844,509		605,406		635,291	(32,304)	76,289,568
12	Residential Net Lost Revenues	18,783,204	5,232,466	6,704,043	5,292,331	(1,623,869)	2,233,068	236,622	(80,649)	36,777,216
13	Total Residential EE/DSM Revenue Requirement	77,019,869	5,232,466	23,548,552	5,292,331	(1,018,463)	2,233,068	871,913	(112,953)	113,066,783
14	Total Collected for Vintage Year 2019 (through estimated Rider 15)									113,489,344
15	Total Residential EE/DSM Revenue Requirement									\$ (422,560)

See Listebarger Exhibit A for rate

NON-RESIDENTIAL Energy Efficiency Programs

Line	Reference	E-7 Sub 1164 Rider 10 Year 1 Estimate	E-7 Sub 1192 Year 2019 Yr 2 LR Estimate	E-7 Sub 1230 Rider 12 True up	E-7 Sub 1230 Year 2019 Yr 3 LR Estimate	E-7 Sub 1249 Rider 13 True up	E-7 Sub 1249 Year 2020 Yr 4 LR Estimate	E-7 Sub 1265 Rider 14 True up	E-7 Sub 1285 Rider 15 True up	Year 2019
16	Non-Residential EE Program Cost	41,671,833		(8,698,625)		-		0	(0)	32,973,208
17	Non-Residential EE Earned Utility Incentive	8,464,629		1,873,850		759,937		(0)	249,134	11,347,550
18	Return on undercollection of Non-residential EE Program Costs			(553,659)		(275,034)		(228,890)	(78,141)	(1,135,724)
19	Total EE Program Cost and Incentive Components	50,136,462		(7,378,434)		484,904		(228,890)	170,992	43,185,034
20	Revenue-related taxes and regulatory fees factor	1.001402		1.001352		1.001352		1.001402	1.001402	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	50,206,753		(7,388,410)		485,559		(229,211)	171,232	43,245,924
22	Non-Residential Net Lost Revenues	5,590,446	8,746,000	452,216	10,794,655	(8,183,962)	2,074,187	874,289	663,225	21,011,055
23	Total Non-Residential EE Revenue Requirement	55,797,199	8,746,000	(6,936,194)	10,794,655	(7,698,403)	2,074,187	645,078	834,456	64,256,979
24	Total Collected for Vintage Year 2019 (through estimated Rider 15)									64,492,500
25	Non-Residential EE Revenue Requirement									(235,521)
26	Projected NC Residential Sales (kWh)									17,136,255,406
27	NC Non-Residential EE billing factor (Cents/kWh)									(0.0014)

DSM Programs

Line	Reference	E-7 Sub 1164 Rider 10 Year 1 Estimate	E-7 Sub 1230 Rider 12 True up	E-7 Sub 1249 Rider 13 True up	E-7 Sub 1265 Rider 14 True up	E-7 Sub 1285 Rider 15 True up	Year 2019
28	Non-Residential DSM Program Cost	12,538,168	(462,163)	-	(0)	-	12,076,005
29	Non-Residential DSM Earned Utility Incentive	3,287,157	611,215	-	31,027	(241)	3,929,159
30	Return on undercollection of Non-residential DSM Program Costs	-	(9,744)	7,619	2,253	(545)	(417)
31	Total Non-Residential DSM Program Cost and Incentive Components	15,825,325	139,308	7,619	33,279	(786)	16,004,746
32	Revenue-related taxes and regulatory fees factor	1.001402	1.001352	1.001352	1.001402	1.001402	
33	Total Non-Residential DSM Revenue Requirement	15,847,512	139,497	7,630	33,326	(787)	16,027,178
34	Total Collected for Vintage Year 2019 (through estimated Rider 15)						16,048,584
35	Non-Residential EE Revenue Requirement True-up Amount						(21,406)
36	Projected NC Non-Residential Sales (kWh)						18,570,220,915
37	NC Non-Residential DSM billing factor						(0.0001)

** Actual regulatory fee rate in effect in year of collection. May differ from original filed estimates.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
True Up of Year 1, 2 and 3 Lost Revenues for Vintage Year 2020

RESIDENTIAL Energy Efficiency Programs

Line	Reference	E-7 Sub 1192 Rider 11 Year 1 Estimate	E-7 Sub 1230 Year 2020 Yr 2 LR Estimate	E-7 Sub 1249 Rider 13 True up	E-7 Sub 1249 Year 2020 Yr 3 LR Estimate	E-7 Sub 1265 Rider 14 True up	E-7 Sub 1265 Year 2020 Yr 4 LR Estimate	E-7 Sub 1285 Rider 15 True up	Year 2020
1	Residential EE Program Cost								
	Fields Exhibit 1 pg. 5, Line 9 * NC Alloc. Factor	\$ 33,551,578		\$ 4,000,501		\$ -		\$ -	\$ 37,552,079
2	Residential EE Earned Utility Incentive	3,173,534		1,218,929		90,910		(38,754)	4,444,619
3	Return on undercollection of Residential EE Program Costs			146,624		434,746		(256,724)	324,646
4	Total EE Program Cost and Incentive Components								
	Line 1 + Line 2 + Line 3	36,725,112		5,366,054		525,656		(295,478)	42,321,344
5	Residential DSM Program Cost								
	Fields Exhibit 1 pg. 5, Line 10 + Line 26 * NC Alloc. Factor	12,243,392		(2,355,317)		-		(0)	9,888,075
6	Residential DSM Earned Utility Incentive	3,189,876		7,301		14,471		(21)	3,211,627
7	Return on overcollection of Residential DSM Program Costs			(73,960)		(198,174)		(119,312)	(391,446)
8	Total DSM Program Cost and Incentive Components								
	Line 5 + Line 6 + Line 7	15,433,268		(2,421,975)		(183,703)		(119,333)	12,708,256
9	Total EE/DSM Program Cost and Incentive Components								
	Line 4 + Line 8	52,158,380		2,944,078		341,953		(414,812)	55,029,600
10	Revenue-related taxes and regulatory fees factor **	1.001402		1.001352		1.001402		1.001402	
11	Total EE/DSM Program Cost and Incentive Revenue Requirement								
	Line 9 * Line 10	52,231,506		2,948,059		342,433		(415,393)	55,106,604
12	Residential Net Lost Revenues	14,667,095	4,495,479	6,588,261	5,386,818	609,516	2,568,275	(362,420)	33,953,024
13	Total Residential EE/DSM Revenue Requirement								
	Line 11 + Line 12	66,898,601	4,495,479	9,536,320	5,386,818	951,949	2,568,275	(777,813)	89,059,629
14	Total Collected for Vintage Year 2020 (through estimated Rider 15)								90,166,622
15	Total Residential EE/DSM Revenue Requirement							\$	(1,106,993)

See Listebarger Exhibit A for rate

NON-RESIDENTIAL Energy Efficiency Programs

Line	Reference	E-7 Sub 1192 Rider 11 Year 1 Estimate	E-7 Sub 1230 Year 2020 Yr 2 LR Estimate	E-7 Sub 1249 Rider 13 True up	E-7 Sub 1249 Year 2020 Yr 3 LR Estimate	E-7 Sub 1265 Rider 14 True up	E-7 Sub 1265 Year 2020 Yr 4 LR Estimate	E-7 Sub 1285 Rider 15 True up	Year 2020
16	Non-Residential EE Program Cost								
	Fields Exhibit 1 pg. 5, Line 23 * NC Alloc. Factor	37,708,077		(15,681,234)		-		-	22,026,843
17	Non-Residential EE Earned Utility Incentive	10,010,194		(2,909,256)		98,425		(76,329)	7,123,034
18	Return on overcollection of Non-residential EE Program Costs			(327,773)		(767,827)		(62,127)	(1,157,726)
19	Total EE Program Cost and Incentive Components								
	Line 16 + Line 17 + Line 18	47,718,271		(18,918,263)		(669,402)		(138,456)	27,992,151
20	Revenue-related taxes and regulatory fees factor	1.001402		1.001352		1.001402		1.001402	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements								
	Line 19 * Line 20	47,785,172		(18,943,841)		(670,341)		(138,650)	28,032,342
22	Non-Residential Net Lost Revenues	5,183,193	9,376,721	(4,169,004)	6,802,676	1,081,898	3,845,961	(61,096)	22,060,349
23	Total Non-Residential EE Revenue Requirement								
	Line 21 + Line 22	52,968,365	9,376,721	(23,112,845)	6,802,676	411,558	3,845,961	(199,745)	50,092,691
24	Total Collected for Vintage Year 2020 (through estimated Rider 15)								51,221,578
25	Non-Residential EE Revenue Requirement								(1,128,887)
26	Projected NC Residential Sales (kWh)								16,575,789,097
27	NC Non-Residential EE billing factor (Cents/kWh)								(0.0068)

DSM Programs

Line	Reference	E-7 Sub 1192 Rider 11 Year 1 Estimate	E-7 Sub 1249 Rider 13 True up	E-7 Sub 1265 Rider 14 True up	E-7 Sub 1285 Rider 15 True up	Year 2020
28	Non-Residential DSM Program Cost					
	Fields Exhibit 1 pg. 5, Line 10 + Line 26 * NC Alloc. Factor	15,789,462	(3,918,078)	-	(0)	11,871,383
29	Non-Residential DSM Earned Utility Incentive	4,113,764	(275,311)	17,373	(25)	3,855,801
30	Return on overcollection of Non-residential DSM Program Costs	-	(53,705)	(4,377)	124,794	66,712
31	Total Non-Residential DSM Program Cost and Incentive Components					
	Line 28 + Line 29 + Line 30	19,903,226	(4,247,095)	12,996	124,769	15,793,896
32	Revenue-related taxes and regulatory fees factor	1.001402	1.001352	1.001402	1.001402	
33	Total Non-Residential DSM Revenue Requirement					
	Line 31 * Line 32	19,931,130	(4,252,837)	13,014	124,944	15,816,251
34	Total Collected for Vintage Year 2020 (through estimated Rider 15)					15,783,965
35	Non-Residential EE Revenue Requirement True-up Amount					32,287
36	Projected NC Non-Residential Sales (kWh)					18,635,398,667
37	NC Non-Residential DSM billing factor					0.0002

** Actual regulatory fee rate in effect in year of collection. May differ from original filed estimates.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Year 4 Lost Revenue and True Up of Year 1 and 2 for Vintage Year 2021

RESIDENTIAL Energy Efficiency Programs

Line	Reference	Year 2021 Yr 4 LR Estimate
1 Residential EE Program Cost	Fields Exhibit 1 pg. 6, Line 9 * NC Alloc. Factor	
2 Residential EE Earned Utility Incentive	Fields Exhibit 1 pg. 6, Line 9 * NC Alloc. Factor	
3 Return on undercollection of Residential EE Program Costs	Listebarger Exhibit 3 pg 15	
4 Total EE Program Cost and Incentive Components	Line 1 + Line 2 + Line 3	
5 Residential DSM Program Cost	Fields Exhibit 1 pg. 6, Line 10 + Line 26 * NC Alloc. Factor	
6 Residential DSM Earned Utility Incentive	Fields Exhibit 1 pg. 6, Line 10 + Line 26 * NC Alloc. Factor	
7 Return on overcollection of Residential DSM Program Costs	Listebarger Exhibit 3 pg 16	
8 Total DSM Program Cost and Incentive Components	Line 5 + Line 6 + Line 7	
9 Total EE/DSM Program Cost and Incentive Components	Line 4 + Line 8	
10 Revenue-related taxes and regulatory fees factor **	Listebarger Exhibit 2, pg. 8	
11 Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 9 * Line 10	
12 Residential Net Lost Revenues	Fields Exhibit 2 pg. 1-9	\$ 1,915,275
13 Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	1,915,275
14 Total Collected for Vintage Year 2021 (through estimated Rider 15)	Listebarger Exhibit 4, Line 4	
15 Total Residential EE/DSM Revenue Requirement	Line13 - Line 14	\$ 1,915,275

E-7 Sub 1230 Rider 12 Year 1 Estimate	E-7 Sub 1249 Year 2021 Yr 2 LR Estimate	E-7 Sub 1265 Rider 14 True up	E-7 Sub 1265 Year 2021 Yr 3 LR Estimate	E-7 Sub 1285 Rider 15 True up	Year 2021
\$ 37,155,471		\$ (10,923,999)		\$ -	\$ 26,231,472
2,774,995		(244,088)		(254,158)	2,276,749
		(427,186)		(998,375)	(1,425,561)
39,930,466		(11,595,273)		(1,252,534)	27,082,659
13,699,485		(2,210,071)		-	11,489,414
3,521,313		(751,140)		-	2,770,173
		(105,970)		(194,724)	(300,693)
17,220,797		(3,067,180)		(194,724)	13,958,894
57,151,264		(14,662,453)		(1,447,257)	41,041,553
1.001302		1.001402		1.001402	
57,225,674		(14,683,010)		(1,449,286)	41,093,378
25,205,298	6,249,665	(8,091,427)	3,959,003	837,374	28,159,914
82,430,973	6,249,665	(22,774,437)	3,959,003	(611,912)	69,253,292
					70,020,796
					\$ (767,503)

See Listebarger Exhibit A for rate

NON-RESIDENTIAL Energy Efficiency Programs

Line	Reference	Year 2021 Yr 4 LR Estimate
16 Non- Residential EE Program Cost	Fields Exhibit 1 pg. 6, Line 23 * NC Alloc. Factor	
17 Non-Residential EE Earned Utility Incentive	Fields Exhibit 1 pg. 6, Line 23 * NC Alloc. Factor	
18 Return on overcollection of Non-residential EE Program Costs	Listebarger Exhibit 3 page 17	
19 Total EE Program Cost and Incentive Components	Line 16 + Line 17 + Line 18	
20 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 8	
21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20	
22 Non-Residential Net Lost Revenues	Fields Exhibit 2 pg. 1-9	5,211,948
23 Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	5,211,948
24 Total Collected for Vintage Year 2021 (through estimated Rider 15)	Listebarger Exhibit 4 Line 11	
25 Non-Residential EE Revenue Requirement	Line 23 - Line 24	5,211,948
26 Projected NC Residential Sales (kWh)	Listebarger Exhibit 6, Line 10	16,652,048,700
27 NC Non-Residential EE billing factor (Cents/kWh)	Line 25/Line 26*100	0.0313

E-7 Sub 1230 Rider 12 Year 1 Estimate	E-7 Sub 1249 Year 2021 Yr 2 LR Estimate	E-7 Sub 1265 Rider 14 True up	E-7 Sub 1265 Year 2021 Yr 3 LR Estimate	E-7 Sub 1285 Rider 15 True up	Year 2021
38,264,959		(8,510,352)		(2)	29,754,605
8,888,527		(1,494,004)		(196,113)	7,198,410
		(580,644)		(1,786,904)	(2,367,548)
47,153,486		(10,585,000)		(1,983,019)	34,585,467
1.001302		1.001402		1.001402	
47,214,880		(10,599,840)		(1,985,799)	34,629,241
6,360,715	13,494,665	(4,819,745)	10,003,040	414,021	25,452,696
53,575,595	13,494,665	(15,419,585)	10,003,040	(1,571,778)	60,081,937
					61,445,924
					(1,363,988)
					16,652,048,700
					(0.0082)

DSM Programs

Line	Reference	Year 2021 Yr 4 LR Estimate
28 Non-Residential DSM Program Cost	Fields Exhibit 1 pg. 6, Line 10 + Line 26 * NC Alloc. Factor	
29 Non-Residential DSM Earned Utility Incentive	Fields Exhibit 1 pg. 6, Line 10 + Line 26 * NC Alloc. Factor	
30 Return on overcollection of Non-residential DSM Program Costs	Listebarger Exhibit 3 page 18	
31 Total Non-Residential DSM Program Cost and Incentive Components	Line 28 + Line 29 + Line 30	
32 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 8	
33 Total Non-Residential DSM Revenue Requirement	Line 31 * Line 32	
34 Total Collected for Vintage Year 2021 (through estimated Rider 15)	Listebarger Exhibit 4 Line 17	
35 Non-Residential EE Revenue Requirement True-up Amount	Line 33- Line 34	
36 Projected NC Non-Residential Sales (kWh)	Listebarger Exhibit 6 Line 11	
37 NC Non-Residential DSM billing factor	Line 35/Line 36*100	

E-7 Sub 1230 Rider 12 Year 1 Estimate	E-7 Sub 1265 Rider 14 True up	E-7 Sub 1285 Rider 15 True up	Year 2021
16,110,767	(3,154,656)	-	12,956,111
4,141,109	(1,017,305)	-	3,123,804
-	(77,609)	(488,760)	(566,369)
20,251,876	(4,249,570)	(488,760)	15,513,545
1.001302	1.001402	1.001402	
20,278,244	(4,255,528)	(489,446)	15,533,270
			16,900,308
			(1,367,038)
			18,677,101,757
			(0.0073)

** Actual regulatory fee rate in effect in year of collection. May differ from original filed estimates.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Year 3 Lost Revenue and True Up of Year 1 for Vintage Year 2022

RESIDENTIAL Energy Efficiency Programs

Line	Reference	Year 2022 Yr 3 LR Estimate
1 Residential EE Program Cost	Fields Exhibit 1 pg. 7, Line 10 * NC Alloc. Factor	
2 Residential EE Earned Utility Incentive	Fields Exhibit 1 pg. 7, Line 10 * NC Alloc. Factor	
3 Return on undercollection of Residential EE Program Costs	Listebarger Exhibit 3 pg 19	
4 Total EE Program Cost and Incentive Components	Line 1 + Line 2 + Line 3	
5 Residential DSM Program Cost	Fields Exhibit 1 pg. 7, Line 11 * NC Alloc. Factor	
6 Residential DSM Earned Utility Incentive	Fields Exhibit 1 pg. 7, Line 11 * NC Alloc. Factor	
7 Return on overcollection of Residential DSM Program Costs	Listebarger Exhibit 3 pg 20	
8 Total DSM Program Cost and Incentive Components	Line 5 + Line 6 + Line 7	
9 Total EE/DSM Program Cost and Incentive Components	Line 4 + Line 8	
10 Revenue-related taxes and regulatory fees factor **	Listebarger Exhibit 2, pg. 8	
11 Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 9 * Line 10	
12 Residential Net Lost Revenues	Fields Exhibit 2 pg. 1-9	\$ 4,813,237
13 Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	4,813,237
14 Total Collected for Vintage Year 2022 (through estimated Rider 15)	Listebarger Exhibit 4, Line 5	
15 Total Residential EE/DSM Revenue Requirement	Line13 - Line 14	\$ 4,813,237

E-7 Sub 1249	E-7 Sub 1265	E-7 Sub 1285	
Rider 13 Year 1 Estimate	Year 2022 Yr 2 LR Estimate	Rider 15 True up	Year 2022
\$ 39,429,805		\$ (7,839,025)	\$ 31,590,780
3,287,459		755,071	4,042,529
		(258,641)	(258,641)
42,717,264		(7,342,595)	35,374,668
12,587,919		416,918	13,004,838
2,954,061		485,715	3,439,776
		(14,865)	(14,865)
15,541,981		887,768	16,429,749
58,259,244		(6,454,828)	51,804,417
1.001352		1.001402	
58,338,011		(6,463,877)	51,874,134
21,026,409	6,791,458	(401,930)	27,415,937
79,364,420	6,791,458	(6,865,807)	79,290,071
			88,216,873
			\$ (8,926,802)

See Listebarger Exhibit A for rate

NON-RESIDENTIAL Energy Efficiency Programs

	Reference	Year 2022 Yr 3 LR Estimate
16 Non- Residential EE Program Cost	Fields Exhibit 1 pg. 7, Line 24 * NC Alloc. Factor	
17 Non-Residential EE Earned Utility Incentive	Fields Exhibit 1 pg. 7, Line 24 * NC Alloc. Factor	
18 Return on overcollection of Non-residential EE Program Costs	Listebarger Exhibit 3 page 21	
19 Total EE Program Cost and Incentive Components	Line 16 + Line 17 + Line 18	
20 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 8	
21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20	
22 Non-Residential Net Lost Revenues	Fields Exhibit 2 pg. 1-9	7,844,523
23 Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	7,844,523
24 Total Collected for Vintage Year 2022 (through estimated Rider 15)	Listebarger Exhibit 4 Line 12	
25 Non-Residential EE Revenue Requirement	Line 23 - Line 24	7,844,523
26 Projected NC Residential Sales (kWh)	Listebarger Exhibit 6, Line 12	16,744,193,880
27 NC Non-Residential EE billing factor (Cents/kWh)	Line 25/Line 26*100	0.0468

E-7 Sub 1249	E-7 Sub 1265	E-7 Sub 1285	
Rider 13 Year 1 Estimate	Year 2022 Yr 2 LR Estimate	Rider 15 True up	Year 2022
49,276,542		(19,636,520)	29,640,022
10,564,159		(4,395,686)	6,168,473
		(730,073)	(730,073)
59,840,701		(24,762,278)	35,078,422
1.001352		1.001402	
59,921,605		(24,796,995)	35,124,610
8,181,228	15,132,477	(9,193,461)	14,120,244
68,102,833	15,132,477	(33,990,456)	49,244,854
			78,251,255
			(29,006,401)
			16,744,193,880
			(0.1732)

DSM Programs

	Reference	
28 Non-Residential DSM Program Cost	Fields Exhibit 1 pg. 7, Line 26 * NC Alloc. Factor	
29 Non-Residential DSM Earned Utility Incentive	Fields Exhibit 1 pg. 7, Line 26 * NC Alloc. Factor	
30 Return on overcollection of Non-residential DSM Program Costs	Listebarger Exhibit 3 page 22	
31 Total Non-Residential DSM Program Cost and Incentive Components	Line 28 + Line 29 + Line 30	
32 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 8	
33 Total Non-Residential DSM Revenue Requirement	Line 31 * Line 32	
34 Total Collected for Vintage Year 2022 (through estimated Rider 15)	Listebarger Exhibit 4 Line 18	
35 Non-Residential EE Revenue Requirement True-up Amount	Line 33- Line 34	
36 Projected NC Non-Residential Sales (kWh)	Listebarger Exhibit 6 Line 13	
37 NC Non-Residential DSM billing factor	Line 35/Line 36*100	

E-7 Sub 1249		E-7 Sub 1285	
Rider 13 Year 1 Estimate		Rider 15 True up	Year 2022
15,112,751		(404,946)	14,707,805
3,546,574		(823,575)	2,723,000
		7,085	7,085
18,659,325		(1,221,436)	17,437,889
1.001352		1.001402	
18,684,553		(1,223,149)	17,461,404
			17,790,773
			(329,369)
			18,855,570,769
			(0.0017)

** Actual regulatory fee rate in effect in year of collection. May differ from original filed estimates.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Year 2 Lost Revenues for Vintage Year 2023

RESIDENTIAL

Line

- 1 Residential Net Lost Revenues
- 2 Projected NC Residential Sales (kWh)
- 3 **NC Residential EE Billing Factor (Cents/kWh)**

Reference

Fields Exhibit 2 pg 1 - 9
Listebarger Exhibit 6, Line 1
Line 1/Line 2*100

2023

	6,787,155
\$	23,664,202,369
	0.0287

NON-RESIDENTIAL

Energy Efficiency Programs

- 4 Non-Residential Net Lost Revenues
- 5 Projected NC Non-Residential Sales (kWh)
- 6 **NC Non-Residential EE billing factor (Cents/kWh)**

Reference

Fields Exhibit 2 pg 1 - 9
Listebarger Exhibit 6, Line 14
Line 4/Line 5*100

2023

	14,155,374
	17,655,241,326
	0.0802

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Program Costs, Earned Incentive and Lost Revenues for Vintage Year 2024

RESIDENTIAL

Line	Reference	2024
1 Residential EE Program Cost	Fields Exhibit 1, pg. 8, Line 10 * NC Alloc. Factor	\$ 38,670,751
2 Residential EE Earned Utility Incentive	Fields Exhibit 1, pg. 8, Line 10	4,624,245
3 Total EE Program Cost and Incentive Components	Line 1 + Line 2	43,294,996
4 Residential DSM Program Cost	Fields Exhibit 1 pg. 8, Line 11 * NC Alloc. Factor	18,148,614
5 Residential DSM Earned Utility Incentive	Fields Exhibit 1 pg. 8, Line 11	3,679,035
6 Total DSM Program Cost and Incentive Components	Line 4 + Line 5	21,827,649
7 Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6	65,122,646
8 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 8	1.001402
9 Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 7 * Line 8	65,213,948
10 Residential Net Lost Revenues	Fields Exhibit 2 pg 1 - 9	23,509,586
11 Total Residential EE Revenue Requirement	Line 9 + Line 10	\$ 88,723,534

See Listebarger Exhibit 1 for rate

NON-RESIDENTIAL

Energy Efficiency Programs

	Reference	2024
12 Non- Residential EE Program Cost	Fields Exhibit 1, pg. 8, Line 24 * NC Alloc. Factor	\$ 47,830,402
13 Non-Residential EE Earned Utility Incentive	Fields Exhibit 1, pg. 8, Line 24	11,638,110
14 Total EE Program Cost and Incentive Components	Line 12 + Line 13	59,468,511
15 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 8	1.001402
16 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 14 * Line 15	59,551,886
17 Non-Residential Net Lost Revenues	Fields Exhibit 2 pg 1 - 9	8,761,484
18 Total Non-Residential EE Revenue Requirement	Line 16 + Line 17	\$ 68,313,371
19 Projected NC Residential Sales (kWh)	Listebarger Exhibit 6, Line 16	17,655,241,326
20 NC Non-Residential EE billing factor (Cents/kWh)	Line 18/Line 19*100	0.3869

DSM Programs

		2024
21 Non-Residential DSM Program Cost	Fields Exhibit 1 pg. 8, Line 26 * NC Alloc. Factor	\$ 14,564,801
22 Non-Residential DSM Earned Utility Incentive	Fields Exhibit 1 pg. 8, Line 26	2,498,051
23 Total Non-Residential DSM Program Cost and Incentive Components	Line 21 + Line 22	17,062,852
24 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 8	1.001402
25 Total Non-Residential DSM Revenue Requirement	Line 23 * Line 24	17,086,774
26 Projected NC Non-Residential Sales (kWh)	Listebarger Exhibit 6, Line 17	19,059,148,493
27 NC Non-Residential DSM billing factor	Line 25/Line 26*100	0.0897

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Gross Receipts Tax Years 2018 through estimated 2024

	<u>Year</u>		<u>Actual GRT Rate In Effect</u>
Rider 9	2018		1.001402
Rider 10	2019		1.001402
	2020	Jan - June	1.001402
	2020	July - Dec	1.001302
Rider 11	2020	Weighted Average	1.001352
Rider 12	2021		1.001302
Rider 13	2022		1.001352 ¹
Rider 14	2023		1.001402
Rider 15	2024		1.001402

Note: Per Order in Docket No. M-100 Sub 142, the regulatory fee percentage was increased effective July 1, 2022. This new rate is used as the estimate for 2023. This will be subject to true-up based on actual rates in effect.

¹ 6 months on old rate/6 months on new rate

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Residential EE Programs Vintage 2016

NC Residential EE	Residential EE		NC Allocated EE				NC Residential	NC Residential EE	EE Program	(Over)/Under Collection
	Program Costs Incurred	NC Allocation %	Program Costs	Program Incentives	Lost Revenues	Total Costs	Revenue Collected	Program Collection %	Costs Revenue Collected	
		Docket No. E-7, Sub 1192, Miller Exh 5 pg 2						100% used due to overcollection		
Beginning Balance	54,751,215		40,021,101	6,702,353	28,828,063	75,551,516	76,089,404			(47,227)
2022 January		73.0962827%	-	(100)		(100)		100.0000%	-	(100)
2022 February		73.0962827%	-	(100)		(100)		100.0000%	-	(100)
2022 March		73.0962827%	-	(100)		(100)		100.0000%	-	(100)
2022 April		73.0962827%	-	(100)		(100)		100.0000%	-	(100)
2022 May		73.0962827%	-	(100)		(100)		100.0000%	-	(100)
2022 June		73.0962827%	-	(100)		(100)		100.0000%	-	(100)
2022 July		73.0962827%	-	(100)		(100)		100.0000%	-	(100)
2022 August		73.0962827%	-	(100)		(100)		100.0000%	-	(100)
2022 September		73.0962827%	-	(100)		(100)		100.0000%	-	(100)
2022 October		73.0962827%	-	(100)		(100)		100.0000%	-	(100)
2022 November		73.0962827%	-	(100)		(100)		100.0000%	-	(100)
2022 December		73.0962827%	-	(100)		(100)		100.0000%	-	(100)
	54,751,215		40,021,101	6,701,149	28,828,063	75,550,312	76,089,404		-	(48,431)

Vintage is overcollected. Interest is
calculated on all components.

100% of all revenues offset the
overcollected balance.

NC Residential EE	Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
	1/2022 - 12/2022					6.56%			0.766497	
Beginning Balance	(47,227)			(11,028)	(36,200)					
2022 January	(47,328)	0.233503	(23)	(11,051)	(36,277)	0.005469	(198)	(198)	0.766497	(259)
2022 February	(47,428)	0.233503	(23)	(11,075)	(36,353)	0.005469	(199)	(397)	0.766497	(518)
2022 March	(47,528)	0.233503	(23)	(11,098)	(36,430)	0.005469	(199)	(596)	0.766497	(777)
2022 April	(47,629)	0.233503	(23)	(11,121)	(36,507)	0.005469	(199)	(795)	0.766497	(1,038)
2022 May	(47,729)	0.233503	(23)	(11,145)	(36,584)	0.005469	(200)	(995)	0.766497	(1,298)
2022 June	(47,829)	0.233503	(23)	(11,168)	(36,661)	0.005469	(200)	(1,195)	0.766497	(1,560)
2022 July	(47,930)	0.233503	(23)	(11,192)	(36,738)	0.005469	(201)	(1,396)	0.766497	(1,822)
2022 August	(48,030)	0.233503	(23)	(11,215)	(36,815)	0.005469	(201)	(1,597)	0.766497	(2,084)
2022 September	(48,130)	0.233503	(23)	(11,239)	(36,892)	0.005469	(202)	(1,799)	0.766497	(2,347)
2022 October	(48,231)	0.233503	(23)	(11,262)	(36,969)	0.005469	(202)	(2,001)	0.766497	(2,610)
2022 November	(48,331)	0.233503	(23)	(11,285)	(37,046)	0.005469	(202)	(2,203)	0.766497	(2,874)
2022 December	(48,431)	0.233503	(23)	(11,309)	(37,122)	0.005469	(203)	(2,406)	0.766497	(3,139)
Checks			(281)	(281)	(11,309)		(2,406)			(3,139)

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Residential EE Programs Vintage 2017

NC Residential EE	Residential EE Program Costs		NC Allocated EE Program Costs		Lost Revenues	Total Costs	NC Residential Revenue Collected	NC Residential EE Program Collection %	EE Program Costs Revenue Collected		(Over)/Under Collection
	Incurred	NC Allocation %	Program Costs	Program Incentives					Revenue Collected	Revenue Collected	
	Docket No. E-7, Sub 1249, Listebarger Exh 5 pg 1							100% used due to overcollection			
Beginning Balance	65,222,734		47,487,858	8,319,498	32,241,553	88,048,909	92,061,985		-		(4,013,074)
2022 January		72.8087506%	-	(2,050)		(2,050)		100.0000%	-		(2,050)
2022 February		72.8087506%	-	(2,050)		(2,050)		100.0000%	-		(2,050)
2022 March		72.8087506%	-	(2,050)		(2,050)		100.0000%	-		(2,050)
2022 April		72.8087506%	-	(2,050)		(2,050)		100.0000%	-		(2,050)
2022 May		72.8087506%	-	(2,050)		(2,050)		100.0000%	-		(2,050)
2022 June		72.8087506%	-	(2,050)		(2,050)		100.0000%	-		(2,050)
2022 July		72.8087506%	-	(2,050)		(2,050)		100.0000%	-		(2,050)
2022 August		72.8087506%	-	(2,050)		(2,050)		100.0000%	-		(2,050)
2022 September		72.8087506%	-	(2,050)		(2,050)		100.0000%	-		(2,050)
2022 October		72.8087506%	-	(2,050)		(2,050)		100.0000%	-		(2,050)
2022 November		72.8087506%	-	(2,050)		(2,050)		100.0000%	-		(2,050)
2022 December		72.8087506%	-	(2,050)		(2,050)		100.0000%	-		(2,050)
	65,222,734		47,487,858	8,294,902	32,241,553	88,024,313	92,061,985		-		(4,037,670)

Vintage is overcollected. Interest is calculated on all components.

100% of all revenues offset the overcollected balance.

NC Residential EE	Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
	1/2022 - 12/2022					6.56%			0.766497	
Beginning Balance	(4,013,074)			(937,065)	(3,076,010)					
2022 January	(4,015,124)	0.233503	(479)	(937,544)	(3,077,581)	0.005469	(16,828)	(16,828)	0.766497	(21,954)
2022 February	(4,017,174)	0.233503	(479)	(938,022)	(3,079,152)	0.005469	(16,836)	(33,664)	0.766497	(43,919)
2022 March	(4,019,223)	0.233503	(479)	(938,501)	(3,080,723)	0.005469	(16,845)	(50,508)	0.766497	(65,895)
2022 April	(4,021,273)	0.233503	(479)	(938,979)	(3,082,294)	0.005469	(16,853)	(67,362)	0.766497	(87,883)
2022 May	(4,023,323)	0.233503	(479)	(939,458)	(3,083,865)	0.005469	(16,862)	(84,224)	0.766497	(109,881)
2022 June	(4,025,372)	0.233503	(479)	(939,936)	(3,085,436)	0.005469	(16,871)	(101,094)	0.766497	(131,891)
2022 July	(4,027,422)	0.233503	(479)	(940,415)	(3,087,007)	0.005469	(16,879)	(117,973)	0.766497	(153,912)
2022 August	(4,029,472)	0.233503	(479)	(940,894)	(3,088,578)	0.005469	(16,888)	(134,861)	0.766497	(175,944)
2022 September	(4,031,521)	0.233503	(479)	(941,372)	(3,090,149)	0.005469	(16,896)	(151,757)	0.766497	(197,988)
2022 October	(4,033,571)	0.233503	(479)	(941,851)	(3,091,720)	0.005469	(16,905)	(168,662)	0.766497	(220,043)
2022 November	(4,035,620)	0.233503	(479)	(942,329)	(3,093,291)	0.005469	(16,913)	(185,576)	0.766497	(242,109)
2022 December	(4,037,670)	0.233503	(479)	(942,808)	(3,094,862)	0.005469	(16,922)	(202,498)	0.766497	(264,186)
Checks			(5,743)	(5,743)	(942,808)		(202,498)			(264,186)

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Residential EE Programs Vintage 2018

		Residential EE Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	Program Incentives	Lost Revenues	Total Costs	NC Residential Revenue Collected ²	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
NC Residential EE		Listebarger Exhibit 5 pg. 1, Line 4							100% used due to overcollection		
Beginning Balance¹		77,331,818		56,230,324	9,941,319	40,274,557	106,446,200	106,331,949		(56,790)	(111,787)
2022	January		72.7130507%	-	4,579	(16,175)	(11,596)	103,167	100.0000%	(103,167)	(114,763)
2022	February		72.7130507%	-	4,579	(16,175)	(11,596)	309,908	100.0000%	(309,908)	(321,504)
2022	March		72.7130507%	-	4,579	(16,175)	(11,596)	239,380	100.0000%	(239,380)	(250,976)
2022	April		72.7130507%	-	4,579	(16,175)	(11,596)	193,530	100.0000%	(193,530)	(205,126)
2022	May		72.7130507%	-	4,579	(16,175)	(11,596)	193,444	100.0000%	(193,444)	(205,039)
2022	June		72.7130507%	-	4,579	(16,175)	(11,596)	257,199	100.0000%	(257,199)	(268,794)
2022	July		72.7130507%	-	4,579	(16,175)	(11,596)	296,495	100.0000%	(296,495)	(308,090)
2022	August		72.7130507%	-	4,579	(16,175)	(11,596)	322,951	100.0000%	(322,951)	(334,546)
2022	September		72.7130507%	-	4,579	(16,175)	(11,596)	267,462	100.0000%	(267,462)	(279,058)
2022	October		72.7130507%	-	4,579	(16,175)	(11,596)	185,083	100.0000%	(185,083)	(196,679)
2022	November		72.7130507%	-	4,579	(16,175)	(11,596)	181,304	100.0000%	(181,304)	(192,899)
2022	December		72.7130507%	-	4,579	(16,175)	(11,596)	461,672	100.0000%	(461,672)	(473,268)
		77,331,818		56,230,324	9,996,266	40,080,462	106,307,052	109,343,543		(3,068,385)	(3,262,530)

Vintage is overcollected. Interest is
calculated on all components.

100% of all revenues offset the
overcollected balance.

		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
NC Residential EE		1/2022 - 12/2022					6.56%			0.766497	
Beginning Balance		(111,787)			(26,103)	(85,685)					
2022	January	(226,550)	0.233503	(26,798)	(52,900)	(173,650)	0.005469	(709)	(709)	0.766497	(925)
2022	February	(548,054)	0.233503	(75,072)	(127,972)	(420,082)	0.005469	(1,624)	(2,333)	0.766497	(3,043)
2022	March	(799,030)	0.233503	(58,604)	(186,576)	(612,454)	0.005469	(2,824)	(5,156)	0.766497	(6,727)
2022	April	(1,004,156)	0.233503	(47,897)	(234,473)	(769,682)	0.005469	(3,780)	(8,936)	0.766497	(11,658)
2022	May	(1,209,195)	0.233503	(47,877)	(282,351)	(926,844)	0.005469	(4,639)	(13,575)	0.766497	(17,711)
2022	June	(1,477,989)	0.233503	(62,764)	(345,115)	(1,132,874)	0.005469	(5,632)	(19,208)	0.766497	(25,059)
2022	July	(1,786,080)	0.233503	(71,940)	(417,055)	(1,369,025)	0.005469	(6,842)	(26,049)	0.766497	(33,985)
2022	August	(2,120,626)	0.233503	(78,118)	(495,173)	(1,625,454)	0.005469	(8,189)	(34,238)	0.766497	(44,668)
2022	September	(2,399,684)	0.233503	(65,161)	(560,333)	(1,839,351)	0.005469	(9,475)	(43,713)	0.766497	(57,029)
2022	October	(2,596,363)	0.233503	(45,925)	(606,258)	(1,990,104)	0.005469	(10,472)	(54,185)	0.766497	(70,692)
2022	November	(2,789,262)	0.233503	(45,043)	(651,301)	(2,137,961)	0.005469	(11,289)	(65,473)	0.766497	(85,419)
2022	December	(3,262,530)	0.233503	(110,509)	(761,810)	(2,500,719)	0.005469	(12,685)	(78,158)	0.766497	(101,968)
Checks				(735,708)	(735,708)	(761,810)		(78,158)			(101,968)

Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022. (2,707)

Final Gross up of Return to Pretax for Vintage 2018 **(104,676)**

Note 1: Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

Note 2: Beginning Balance for NC Residential Revenue Collected has been adjusted to correct understatement of revenues from prior rider filing.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Residential DSM Programs Vintage 2018

NC Residential DSM	Residential DSM Program Costs Incurred	NC Allocation %	NC Allocated DSM Program Costs	NC Residential Revenue Collected ²	NC Residential DSM Program Collection %	DSM Program Costs Revenue Collected	(Over)/Under Collection
	Listebarger Exhibit 5 pg. 1, Line 4			see calc. at right			
Beginning Balance¹	30,409,405		9,778,896	11,667,551		(9,777,529)	1,366
2022 January		32.1574721%	-	(770)	-6.5213%	(50)	(50)
2022 February		32.1574721%	-	(2,313)	-6.5213%	(151)	(151)
2022 March		32.1574721%	-	(1,786)	-6.5213%	(116)	(116)
2022 April		32.1574721%	-	(1,444)	-6.5213%	(94)	(94)
2022 May		32.1574721%	-	(1,444)	-6.5213%	(94)	(94)
2022 June		32.1574721%	-	(1,919)	-6.5213%	(125)	(125)
2022 July		32.1574721%	-	(2,213)	-6.5213%	(144)	(144)
2022 August		32.1574721%	-	(2,410)	-6.5213%	(157)	(157)
2022 September		32.1574721%	-	(1,996)	-6.5213%	(130)	(130)
2022 October		32.1574721%	-	(1,381)	-6.5213%	(90)	(90)
2022 November		32.1574721%	-	(1,353)	-6.5213%	(88)	(88)
2022 December		32.1574721%	-	(3,445)	-6.5213%	(225)	(225)
	30,409,405		9,778,896	11,645,077		(9,778,995)	(100)

Program Costs to be Recovered in Rider 13	1,366
Revenues to be Collected in Rider 13	(20,945)
% Revenue related to Program Costs	-6.5213%

NC Residential DSM	Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
	1/2022 - 12/2022					6.56%			0.766497	
Beginning Balance	1,366			319	1,047					
2022 January	1,316	0.233503	(12)	307	1,008	0.005469	6	6	0.766497	7
2022 February	1,165	0.233503	(35)	272	893	0.005469	5	11	0.766497	14
2022 March	1,048	0.233503	(27)	245	804	0.005469	5	15	0.766497	20
2022 April	954	0.233503	(22)	223	731	0.005469	4	20	0.766497	26
2022 May	860	0.233503	(22)	201	659	0.005469	4	23	0.766497	31
2022 June	735	0.233503	(29)	172	563	0.005469	3	27	0.766497	35
2022 July	591	0.233503	(34)	138	453	0.005469	3	30	0.766497	39
2022 August	433	0.233503	(37)	101	332	0.005469	2	32	0.766497	41
2022 September	303	0.233503	(30)	71	232	0.005469	2	33	0.766497	43
2022 October	213	0.233503	(21)	50	163	0.005469	1	34	0.766497	45
2022 November	125	0.233503	(21)	29	96	0.005469	1	35	0.766497	46
2022 December	(100)	0.233503	(52)	(23)	(76)	0.005469	0	35	0.766497	46
Checks			(342)	(342)	(23)		35			46

Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022 (18,041)

Final Gross up of Return to Pretax for Vintage 2018 (17,995)

Note 1: Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022

Note 2: Beginning Balance for NC Residential Revenue Collected has been adjusted to correct understatement of revenues from prior rider filing

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Non-Residential EE Programs Vintage 2018

NC Non- Residential EE		Non-Residential EE Program Costs	NC Allocation %	NC Allocated EE Program Costs	Program Incentives	Lost Revenues	Total Costs	NC Residential Revenue Collected ²	NC Non-Residential EE Program Collection %	Non-Residential EE Program Costs Revenue Collected	(Over)/Under Collection
		Incurred									
Listebarger Exhibit 5 pg 1, Line 4									100% used due to overcollection		
Beginning Balance ¹		51,264,448		37,275,944	14,405,269	25,378,082	77,059,295	78,444,148		18,901,785	(302,294)
2022	January		72.7130507%	-	6,005		6,005	33,327	100.0000000%	(33,327)	(27,322)
2022	February		72.7130507%	-	6,005		6,005	39,340	100.0000000%	(39,340)	(33,335)
2022	March		72.7130507%	-	6,005		6,005	36,379	100.0000000%	(36,379)	(30,374)
2022	April		72.7130507%	-	6,005		6,005	35,351	100.0000000%	(35,351)	(29,346)
2022	May		72.7130507%	-	6,005		6,005	37,093	100.0000000%	(37,093)	(31,088)
2022	June		72.7130507%	-	6,005		6,005	44,084	100.0000000%	(44,084)	(38,079)
2022	July		72.7130507%	-	6,005		6,005	46,292	100.0000000%	(46,292)	(40,287)
2022	August		72.7130507%	-	6,005		6,005	50,617	100.0000000%	(50,617)	(44,611)
2022	September		72.7130507%	-	6,005		6,005	46,462	100.0000000%	(46,462)	(40,457)
2022	October		72.7130507%	-	6,005		6,005	37,306	100.0000000%	(37,306)	(31,301)
2022	November		72.7130507%	-	6,005		6,005	34,238	100.0000000%	(34,238)	(28,233)
2022	December		72.7130507%	-	6,005		6,005	44,533	100.0000000%	(44,533)	(38,528)
		51,264,448		37,275,944	14,477,330	25,378,082	77,131,356	78,929,171		18,416,763	(715,255)

Vintage is overcollected. Interest is calculated on all components.

100% of all revenues offset the overcollected balance.

NC Non-Residential EE		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
		1/2022 - 12/2022		6.56%				0.766497			
Beginning Balance		(302,294)			(70,587)	(231,707)					
2022	January	(329,616)	0.233503	(6,380)	(76,966)	(252,649)	0.005469	(1,325)	(1,325)	0.766497	(1,728)
2022	February	(362,951)	0.233503	(7,784)	(84,750)	(278,201)	0.005469	(1,452)	(2,776)	0.766497	(3,622)
2022	March	(393,325)	0.233503	(7,092)	(91,842)	(301,482)	0.005469	(1,585)	(4,361)	0.766497	(5,690)
2022	April	(422,671)	0.233503	(6,852)	(98,695)	(323,976)	0.005469	(1,710)	(6,072)	0.766497	(7,921)
2022	May	(453,759)	0.233503	(7,259)	(105,954)	(347,805)	0.005469	(1,837)	(7,909)	0.766497	(10,318)
2022	June	(491,838)	0.233503	(8,892)	(114,846)	(376,992)	0.005469	(1,982)	(9,891)	0.766497	(12,904)
2022	July	(532,125)	0.233503	(9,407)	(124,253)	(407,872)	0.005469	(2,146)	(12,037)	0.766497	(15,704)
2022	August	(576,736)	0.233503	(10,417)	(134,670)	(442,066)	0.005469	(2,324)	(14,361)	0.766497	(18,736)
2022	September	(617,193)	0.233503	(9,447)	(144,116)	(473,077)	0.005469	(2,503)	(16,864)	0.766497	(22,001)
2022	October	(648,494)	0.233503	(7,309)	(151,425)	(497,069)	0.005469	(2,653)	(19,517)	0.766497	(25,462)
2022	November	(676,727)	0.233503	(6,592)	(158,018)	(518,709)	0.005469	(2,778)	(22,295)	0.766497	(29,086)
2022	December	(715,255)	0.233503	(8,996)	(167,014)	(548,241)	0.005469	(2,918)	(25,212)	0.766497	(32,893)
Checks				(96,428)	(96,428)	(167,014)		(25,212)			(32,893)
Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.										(22,050)	
Final Gross up of Return to Pretax for Vintage 2018											(54,943)

Note 1: Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.
Note 2: Beginning Balance for NC Residential Revenue Collected has been adjusted to correct understatement of revenues from prior rider filing.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation -Non - Residential DSM Programs Vintage 2018

NC Non- Residential DSM	Total System NC DSM Program Costs Incurred	NC Non- Residential DSM Allocation %	NC Allocated DSM Non-Residential Program Costs	NC Non-Residential DSM Revenue Collected ²	NC Non-Residential DSM Program Collection %	Non-Residential DSM Program Costs Revenue Collected	(Over)/Under Collection
	Listebarger Exhibit 5 pg. 1, Line 10				see calc. at right		
Beginning Balance¹	30,409,405		12,611,170	15,860,821		(12,566,531)	44,639
2022 January	-	41.4712829%	-	1,533	12.9384608%	(198)	(198)
2022 February	-	41.4712829%	-	24,533	12.9384608%	(3,174)	(3,174)
2022 March	-	41.4712829%	-	26,127	12.9384608%	(3,380)	(3,380)
2022 April	-	41.4712829%	-	22,704	12.9384608%	(2,937)	(2,937)
2022 May	-	41.4712829%	-	24,694	12.9384608%	(3,195)	(3,195)
2022 June	-	41.4712829%	-	30,200	12.9384608%	(3,907)	(3,907)
2022 July	-	41.4712829%	-	31,156	12.9384608%	(4,031)	(4,031)
2022 August	-	41.4712829%	-	33,947	12.9384608%	(4,392)	(4,392)
2022 September	-	41.4712829%	-	31,146	12.9384608%	(4,030)	(4,030)
2022 October	-	41.4712829%	-	25,938	12.9384608%	(3,356)	(3,356)
2022 November	-	41.4712829%	-	23,820	12.9384608%	(3,082)	(3,082)
2022 December	-	41.4712829%	-	35,069	12.9384608%	(4,537)	(4,537)
	30,409,405		12,611,170	16,171,688		(12,606,753)	4,418

Program Costs to be Recovered in Rider 13	44,639
Revenues to be Collected in Rider 13	345,011
% Revenue related to Program Costs	12.9385%

NC Non-Residential DSM	Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
	1/2022 - 12/2022					6.56%			0.766497	
Beginning Balance	44,639			10,423	34,216					
2022 January	44,441	0.233503	(46)	10,377	34,064	0.005469	187	187	0.766497	244
2022 February	41,267	0.233503	(741)	9,636	31,631	0.005469	180	366	0.766497	478
2022 March	37,886	0.233503	(789)	8,847	29,040	0.005469	166	532	0.766497	694
2022 April	34,949	0.233503	(686)	8,161	26,788	0.005469	153	685	0.766497	894
2022 May	31,754	0.233503	(746)	7,415	24,339	0.005469	140	825	0.766497	1,076
2022 June	27,846	0.233503	(912)	6,502	21,344	0.005469	125	950	0.766497	1,239
2022 July	23,815	0.233503	(941)	5,561	18,254	0.005469	108	1,058	0.766497	1,380
2022 August	19,423	0.233503	(1,026)	4,535	14,888	0.005469	91	1,149	0.766497	1,498
2022 September	15,393	0.233503	(941)	3,594	11,799	0.005469	73	1,222	0.766497	1,594
2022 October	12,037	0.233503	(784)	2,811	9,226	0.005469	57	1,279	0.766497	1,669
2022 November	8,955	0.233503	(720)	2,091	6,864	0.005469	44	1,323	0.766497	1,726
2022 December	4,418	0.233503	(1,059)	1,032	3,386	0.005469	28	1,351	0.766497	1,763
Checks			(9,392)	(9,392)	1,032		1,351			1,763

Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022 (33,076)

Final Gross up of Return to Pretax for Vintage 2018 (31,313)

Note 1: Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

Note 2: Beginning Balance for NC Residential Revenue Collected has been adjusted to correct understatement of revenues from prior rider filing

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Residential EE Programs Vintage 2019

NC Residential EE	Residential EE Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	NC Residential Revenue Collected ²	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
	Listebarger Exhibit 5 pg. 2, Line 4		see calc. at right				
Beginning Balance¹	74,218,205		54,246,377	97,819,053		(54,251,938)	(5,561)
2022 January		73.0903918%	-	42,345	-0.4607%	195	195
2022 February		73.0903918%	-	127,201	-0.4607%	586	586
2022 March		73.0903918%	-	98,253	-0.4607%	453	453
2022 April		73.0903918%	-	79,434	-0.4607%	366	366
2022 May		73.0903918%	-	79,399	-0.4607%	366	366
2022 June		73.0903918%	-	105,567	-0.4607%	486	486
2022 July		73.0903918%	-	121,696	-0.4607%	561	561
2022 August		73.0903918%	-	132,554	-0.4607%	611	611
2022 September		73.0903918%	-	109,779	-0.4607%	506	506
2022 October		73.0903918%	-	75,967	-0.4607%	350	350
2022 November		73.0903918%	-	74,416	-0.4607%	343	343
2022 December		73.0903918%	-	189,492	-0.4607%	873	873
	74,218,205		54,246,377	99,055,155		(54,246,243)	134

Program Costs to be Recovered in Rider 13	(5,561)
Revenues to be Collected in Rider 13	1,207,099
% Revenue related to Program Costs	-0.4607%

NC Residential EE	Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
	1/2022 - 12/2022					6.56%			0.766497	
Beginning Balance	(5,561)			(1,299)	(4,263)					
2022 January	(5,366)	0.233503	46	(1,253)	(4,113)	0.005469	(23)	(23)	0.766497	(30)
2022 February	(4,780)	0.233503	137	(1,116)	(3,664)	0.005469	(21)	(44)	0.766497	(58)
2022 March	(4,328)	0.233503	106	(1,010)	(3,317)	0.005469	(19)	(63)	0.766497	(83)
2022 April	(3,962)	0.233503	85	(925)	(3,037)	0.005469	(17)	(81)	0.766497	(105)
2022 May	(3,596)	0.233503	85	(840)	(2,756)	0.005469	(16)	(96)	0.766497	(126)
2022 June	(3,109)	0.233503	114	(726)	(2,383)	0.005469	(14)	(111)	0.766497	(144)
2022 July	(2,549)	0.233503	131	(595)	(1,954)	0.005469	(12)	(122)	0.766497	(160)
2022 August	(1,938)	0.233503	143	(453)	(1,485)	0.005469	(9)	(132)	0.766497	(172)
2022 September	(1,432)	0.233503	118	(334)	(1,098)	0.005469	(7)	(139)	0.766497	(181)
2022 October	(1,082)	0.233503	82	(253)	(830)	0.005469	(5)	(144)	0.766497	(188)
2022 November	(739)	0.233503	80	(173)	(567)	0.005469	(4)	(148)	0.766497	(193)
2022 December	134	0.233503	204	31	102	0.005469	(1)	(149)	0.766497	(195)
Checks			1,330	1,330	31		(149)			(195)

Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

Final Gross up of Return to Pretax for Vintage 2019 **(195)**

Note 1: Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

Note 2: Beginning Balance for NC Residential Revenue Collected has been adjusted to correct understatement of revenues from prior rider filing.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Residential DSM Programs Vintage 2019

NC Residential DSM	Total System NC DSM Program Costs Incurred	NC Allocation %	NC Allocated DSM Program Costs	NC Residential Revenue Collected	NC Residential DSM Program Collection %	DSM Program Costs Revenue Collected	(Over)/Under Collection
	Listebarger Exhibit 5 pg. 2, Line 9		see calc. at right				
Beginning Balance¹	30,097,219		10,268,601	13,524,504		(10,213,197)	55,403
2022 January		34.1181040%		(770)	-256.4535%	(1,974)	(1,974)
2022 February		34.1181040%	-	(2,313)	-256.4535%	(5,931)	(5,931)
2022 March		34.1181040%	-	(1,786)	-256.4535%	(4,581)	(4,581)
2022 April		34.1181040%	-	(1,444)	-256.4535%	(3,704)	(3,704)
2022 May		34.1181040%	-	(1,444)	-256.4535%	(3,702)	(3,702)
2022 June		34.1181040%	-	(1,919)	-256.4535%	(4,922)	(4,922)
2022 July		34.1181040%	-	(2,213)	-256.4535%	(5,674)	(5,674)
2022 August		34.1181040%	-	(2,410)	-256.4535%	(6,181)	(6,181)
2022 September		34.1181040%	-	(1,996)	-256.4535%	(5,119)	(5,119)
2022 October		34.1181040%	-	(1,381)	-256.4535%	(3,542)	(3,542)
2022 November		34.1181040%	-	(1,353)	-256.4535%	(3,470)	(3,470)
2022 December		34.1181040%	-	(3,445)	-256.4535%	(8,836)	(8,836)
	30,097,219		10,268,601	13,502,030		(10,270,834)	(2,234)

Program Costs to be Recovered in Rider 13	55,403
Revenues to be Collected in Rider 13	(21,604)
% Revenue related to Program Costs	-256.4535%

NC Residential DSM	Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
	1/2022 - 12/2022					6.56%			0.766497	
Beginning Balance	55,403			12,937	42,466					
2022 January	53,429	0.233503	(461)	12,476	40,953	0.005469	228	228	0.766497	298
2022 February	47,497	0.233503	(1,385)	11,091	36,407	0.005469	212	440	0.766497	574
2022 March	42,916	0.233503	(1,070)	10,021	32,895	0.005469	190	629	0.766497	821
2022 April	39,212	0.233503	(865)	9,156	30,056	0.005469	172	801	0.766497	1,045
2022 May	35,510	0.233503	(864)	8,292	27,218	0.005469	157	958	0.766497	1,250
2022 June	30,588	0.233503	(1,149)	7,142	23,445	0.005469	139	1,096	0.766497	1,431
2022 July	24,913	0.233503	(1,325)	5,817	19,096	0.005469	116	1,213	0.766497	1,582
2022 August	18,733	0.233503	(1,443)	4,374	14,358	0.005469	91	1,304	0.766497	1,702
2022 September	13,614	0.233503	(1,195)	3,179	10,435	0.005469	68	1,372	0.766497	1,790
2022 October	10,072	0.233503	(827)	2,352	7,720	0.005469	50	1,422	0.766497	1,855
2022 November	6,602	0.233503	(810)	1,542	5,060	0.005469	35	1,457	0.766497	1,900
2022 December	(2,234)	0.233503	(2,063)	(522)	(1,712)	0.005469	9	1,466	0.766497	1,912
Checks			(13,458)	(13,458)	(522)		1,466			1,912

Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022 643

Final Gross up of Return to Pretax for Vintage 2019 **2,555**

Note 1: Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022

Note 2: Beginning Balance for NC Residential Revenue Collected has been adjusted to correct understatement of revenues from prior rider filing

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Non- Residential EE Programs Vintage 2019

NC Non- Residential EE	Non-Residential EE Program Costs		NC Allocated EE Program Costs	NC Residential Revenue Collected ²	NC Non-Residential EE Program Collection %	Non-Residential EE Program Costs		(Over)/Under Collection
	Incurred	NC Allocation %				Revenue Collected		
	Listebarger Exhibit 5 pg 2, Line 4				see calc. at right			
Beginning Balance¹	45,112,919		32,973,209	68,010,665		(68,016,425)		(3,123,099)
2022 January		73.0903918%		55,760	61.10%	(34,071)		(34,071)
2022 February		73.0903918%		(369,394)	61.10%	225,711		225,711
2022 March		73.0903918%		(388,310)	61.10%	237,269		237,269
2022 April		73.0903918%		(343,348)	61.10%	209,796		209,796
2022 May		73.0903918%		(371,754)	61.10%	227,153		227,153
2022 June		73.0903918%		(442,126)	61.10%	270,152		270,152
2022 July		73.0903918%		(462,514)	61.10%	282,610		282,610
2022 August		73.0903918%		(506,015)	61.10%	309,190		309,190
2022 September		73.0903918%		(463,226)	61.10%	283,045		283,045
2022 October		73.0903918%		(374,401)	61.10%	228,770		228,770
2022 November		73.0903918%		(343,791)	61.10%	210,067		210,067
2022 December		73.0903918%		(500,218)	61.10%	305,648		305,648
	45,112,919		32,973,209	63,501,330		(65,261,085)		(367,759)

Program Costs to be Recovered in Rider 13	(3,123,099)
Revenues to be Collected in Rider 13	(5,111,203)
% Revenue related to Program Costs	61.1030%

NC Non-Residential EE	Cumulative		Monthly			Monthly A/T				
	(Over)/Under	Current Income Tax	Deferred Income	Cumulative Deferred	Net Deferred After Tax	Monthly Return	Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
	Recovery	Rate	Tax	Income Tax	Balance					
	1/2022 - 12/2022					6.56%			0.766497	
Beginning Balance	(3,123,099)			(729,253)	(2,393,846)					
2022 January	(3,157,170)	0.233503	(7,956)	(737,209)	(2,419,961)	0.005469	(13,164)	(13,164)	0.766497	(17,174)
2022 February	(2,931,459)	0.233503	52,704	(684,504)	(2,246,954)	0.005469	(12,762)	(25,926)	0.766497	(33,824)
2022 March	(2,694,190)	0.233503	55,403	(629,101)	(2,065,088)	0.005469	(11,792)	(37,718)	0.766497	(49,208)
2022 April	(2,484,394)	0.233503	48,988	(580,113)	(1,904,280)	0.005469	(10,855)	(48,572)	0.766497	(63,369)
2022 May	(2,257,241)	0.233503	53,041	(527,073)	(1,730,168)	0.005469	(9,939)	(58,511)	0.766497	(76,335)
2022 June	(1,987,089)	0.233503	63,081	(463,991)	(1,523,098)	0.005469	(8,896)	(67,407)	0.766497	(87,942)
2022 July	(1,704,479)	0.233503	65,990	(398,001)	(1,306,478)	0.005469	(7,738)	(75,145)	0.766497	(98,037)
2022 August	(1,395,289)	0.233503	72,197	(325,804)	(1,069,485)	0.005469	(6,497)	(81,642)	0.766497	(106,513)
2022 September	(1,112,244)	0.233503	66,092	(259,712)	(852,532)	0.005469	(5,256)	(86,898)	0.766497	(113,370)
2022 October	(883,474)	0.233503	53,418	(206,294)	(677,180)	0.005469	(4,183)	(91,081)	0.766497	(118,828)
2022 November	(673,407)	0.233503	49,051	(157,243)	(516,165)	0.005469	(3,263)	(94,345)	0.766497	(123,085)
2022 December	(367,759)	0.233503	71,370	(85,873)	(281,886)	0.005469	(2,182)	(96,527)	0.766497	(125,933)
Checks			643,380	643,380	(85,873)		(96,527)			(125,933)

Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022. 47,791

Final Gross up of Return to Pretax for Vintage 2019 (78,141)

Note 1: Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Non - Residential DSM Programs Vintage 2019

NC Non- Residential DSM	Total System NC DSM Program Costs Incurred	NC Non- Residential DSM Allocation %	NC Allocated DSM Non- Residential Program Costs	NC Non-Residential DSM Revenue Collected ²	NC Non-Residential DSM Program Collection %	Non-Residential DSM Program Costs Revenue Collected	(Over)/Under Collection
	Listebarger Exhibit 5 pg. 2, Line 10				see calc. at right		
Beginning Balance¹	30,097,219		12,076,004	16,231,080		(12,072,831)	3,173
2022 January	-	40.1233224%	-	3,694	-1.2166824%	45	45
2022 February	-	40.1233224%	-	(19,210)	-1.2166824%	(234)	(234)
2022 March	-	40.1233224%	-	(21,073)	-1.2166824%	(256)	(256)
2022 April	-	40.1233224%	-	(17,640)	-1.2166824%	(215)	(215)
2022 May	-	40.1233224%	-	(19,520)	-1.2166824%	(237)	(237)
2022 June	-	40.1233224%	-	(23,889)	-1.2166824%	(291)	(291)
2022 July	-	40.1233224%	-	(24,640)	-1.2166824%	(300)	(300)
2022 August	-	40.1233224%	-	(26,836)	-1.2166824%	(327)	(327)
2022 September	-	40.1233224%	-	(24,578)	-1.2166824%	(299)	(299)
2022 October	-	40.1233224%	-	(20,471)	-1.2166824%	(249)	(249)
2022 November	-	40.1233224%	-	(18,800)	-1.2166824%	(229)	(229)
2022 December	-	40.1233224%	-	(27,187)	-1.2166824%	(331)	(331)
	30,097,219		12,076,004	15,990,931		(12,075,753)	252

Program Costs to be Recovered in Rider 13	3,173
Revenues to be Collected in Rider 13	(260,821)
% Revenue related to Program Costs	-1.2167%

NC Non-Residential DSM	Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
	1/2022 - 12/2022					6.56%			0.766497	
Beginning Balance	3,173			741	2,432					
2022 January	3,218	0.233503	10	751	2,467	0.005469	13	13	0.766497	17
2022 February	2,985	0.233503	(55)	697	2,288	0.005469	13	26	0.766497	34
2022 March	2,728	0.233503	(60)	637	2,091	0.005469	12	38	0.766497	50
2022 April	2,514	0.233503	(50)	587	1,927	0.005469	11	49	0.766497	64
2022 May	2,276	0.233503	(55)	531	1,745	0.005469	10	59	0.766497	77
2022 June	1,985	0.233503	(68)	464	1,522	0.005469	9	68	0.766497	89
2022 July	1,686	0.233503	(70)	394	1,292	0.005469	8	76	0.766497	99
2022 August	1,359	0.233503	(76)	317	1,042	0.005469	6	82	0.766497	108
2022 September	1,060	0.233503	(70)	248	813	0.005469	5	87	0.766497	114
2022 October	811	0.233503	(58)	189	622	0.005469	4	91	0.766497	119
2022 November	582	0.233503	(53)	136	446	0.005469	3	94	0.766497	123
2022 December	252	0.233503	(77)	59	193	0.005469	2	96	0.766497	125
Checks			(682)	(682)	59		96			125

Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022 (671)

Final Gross up of Return to Pretax for Vintage 2019 (545)

Note 1: Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022

Note 2: Beginning Balance for NC Residential Revenue Collected has been adjusted to correct understatement of revenues from prior rider filing

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Residential EE Programs Vintage 2020

		Residential EE Program Costs ²							NC Residential EE Program	EE Program	
NC Residential EE		Incurred	NC Allocation %	NC Allocated EE Program Costs	Program Incentives	Lost Revenues	Total Costs	NC Residential Revenue Collected ²	Collection %	Costs Revenue Collected	(Over)/Under Collection
		Listebarger Exhibit 5 pg. 3, Line 4							100% used due to overcollection		
Beginning Balance¹		51,310,734		37,570,373	4,483,373	31,747,169	73,800,915	56,151,769		(30,658,183)	6,912,190
2022	January	(2,082)	73.2212736%	(1,524)	1,723	(30,202)	(30,003)	636,713	100.0000%	(636,713)	(666,716)
2022	February	(2,082)	73.2212736%	(1,524)	1,723	(30,202)	(30,003)	1,912,641	100.0000%	(1,912,641)	(1,942,644)
2022	March	(2,082)	73.2212736%	(1,524)	1,723	(30,202)	(30,003)	1,477,370	100.0000%	(1,477,370)	(1,507,373)
2022	April	(2,082)	73.2212736%	(1,524)	1,723	(30,202)	(30,003)	1,194,397	100.0000%	(1,194,397)	(1,224,401)
2022	May	(2,082)	73.2212736%	(1,524)	1,723	(30,202)	(30,003)	1,193,865	100.0000%	(1,193,865)	(1,223,868)
2022	June	(2,082)	73.2212736%	(1,524)	1,723	(30,202)	(30,003)	1,587,338	100.0000%	(1,587,338)	(1,617,342)
2022	July	(2,082)	73.2212736%	(1,524)	1,723	(30,202)	(30,003)	1,829,859	100.0000%	(1,829,859)	(1,859,863)
2022	August	(2,082)	73.2212736%	(1,524)	1,723	(30,202)	(30,003)	1,993,137	100.0000%	(1,993,137)	(2,023,140)
2022	September	(2,082)	73.2212736%	(1,524)	1,723	(30,202)	(30,003)	1,650,679	100.0000%	(1,650,679)	(1,680,683)
2022	October	(2,082)	73.2212736%	(1,524)	1,723	(30,202)	(30,003)	1,142,266	100.0000%	(1,142,266)	(1,172,270)
2022	November	(2,082)	73.2212736%	(1,524)	1,723	(30,202)	(30,003)	1,118,942	100.0000%	(1,118,942)	(1,148,945)
2022	December	(2,082)	73.2212736%	(1,524)	1,723	(30,202)	(30,003)	2,849,274	100.0000%	(2,849,274)	(2,879,277)
		51,285,750		37,552,079	4,504,045	31,384,749	73,440,873	74,738,250		(49,244,664)	(12,034,332)

Vintage is overcollected. Interest is calculated on all components.

100% of all revenues offset the overcollected balance.

NC Residential EE	Cumulative (Over)/Under Recovery		Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax	
	1/2022 - 12/2022					6.56%						0.766497
Beginning Balance	6,912,190				1,614,017	5,298,173						
2022 January	6,245,474		0.233503	(155,680)	3,228,034	3,017,440	0.005469	22,740	22,740	0.766497	29,667	
2022 February	4,302,830		0.233503	(453,613)	3,072,354	1,230,476	0.005469	11,616	34,356	0.766497	44,822	
2022 March	2,795,456		0.233503	(351,976)	2,618,741	176,716	0.005469	3,848	38,204	0.766497	49,843	
2022 April	1,571,056		0.233503	(285,901)	2,266,764	(695,709)	0.005469	(1,419)	36,785	0.766497	47,991	
2022 May	347,187		0.233503	(285,777)	1,980,863	(1,633,676)	0.005469	(6,370)	30,415	0.766497	39,681	
2022 June	(1,270,155)		0.233503	(377,654)	1,695,086	(2,965,241)	0.005469	(12,576)	17,839	0.766497	23,273	
2022 July	(3,130,017)		0.233503	(434,284)	1,317,432	(4,447,449)	0.005469	(20,271)	(2,432)	0.766497	(3,173)	
2022 August	(5,153,157)		0.233503	(472,409)	883,149	(6,036,306)	0.005469	(28,669)	(31,101)	0.766497	(40,575)	
2022 September	(6,833,840)		0.233503	(392,444)	410,739	(7,244,579)	0.005469	(36,318)	(67,418)	0.766497	(87,956)	
2022 October	(8,006,110)		0.233503	(273,729)	18,295	(8,024,405)	0.005469	(41,754)	(109,173)	0.766497	(142,431)	
2022 November	(9,155,055)		0.233503	(268,282)	(255,434)	(8,899,622)	0.005469	(46,280)	(155,453)	0.766497	(202,810)	
2022 December	(12,034,332)		0.233503	(672,320)	(523,716)	(11,510,616)	0.005469	(55,814)	(211,267)	0.766497	(275,626)	
Checks				(4,424,070)	(2,137,733)	(523,716)		(211,267)			(275,626)	

Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022 18,902

Final Gross up of Return to Pretax for Vintage 2020 (256,724)

Note 1:

Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022 except for the NC Residential Revenue Collected. The interest calculation inadvertently omitted the 2021 revenue collected in Rider 14.

Note 2:

Beginning Balance for NC Residential Revenue Collected has been adjusted to correct understatement of revenues from prior rider filing.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Residential DSM Programs Vintage 2020

NC Residential DSM	Total System NC DSM Program Costs Incurred	NC Allocation %	NC Allocated DSM Program Costs	NC Residential Revenue Collected ²	NC Residential DSM Program Collection %	DSM Program Costs Revenue Collected	(Over)/Under Collection
	Listebarger Exhibit 5 pg. 3, Line 9			see calc. at right			
Beginning Balance¹	29,327,255		9,888,075	15,488,514		(15,504,312)	(2,404,589)
2022 January		33.7163333%	-	(120,875)	-1.2167%	(1,471)	(1,471)
2022 February		33.7163333%	-	(363,101)	-1.2167%	(4,418)	(4,418)
2022 March		33.7163333%	-	(280,468)	-1.2167%	(3,412)	(3,412)
2022 April		33.7163333%	-	(226,748)	-1.2167%	(2,759)	(2,759)
2022 May		33.7163333%	-	(226,647)	-1.2167%	(2,758)	(2,758)
2022 June		33.7163333%	-	(301,345)	-1.2167%	(3,666)	(3,666)
2022 July		33.7163333%	-	(347,386)	-1.2167%	(4,227)	(4,227)
2022 August		33.7163333%	-	(378,383)	-1.2167%	(4,604)	(4,604)
2022 September		33.7163333%	-	(313,370)	-1.2167%	(3,813)	(3,813)
2022 October		33.7163333%	-	(216,851)	-1.2167%	(2,638)	(2,638)
2022 November		33.7163333%	-	(212,423)	-1.2167%	(2,585)	(2,585)
2022 December		33.7163333%	-	(540,914)	-1.2167%	(6,581)	(6,581)
	29,327,255		9,888,075	11,960,004		(15,547,243)	(2,447,520)

Program Costs to be Recovered in Rider 13	(2,404,589)
Revenues to be Collected in Rider 13	(3,447,632)
% Revenue related to Program Costs	-1.217%

NC Residential DSM	Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
	1/2022 - 12/2022					6.56%			0.766497	
Beginning Balance	(2,404,589)			(561,479)	(1,843,110)					
2022 January	(2,406,060)	0.233503	(343)	(561,822)	(1,844,238)	0.005469	(10,083)	(10,083)	0.766497	(13,155)
2022 February	(2,410,478)	0.233503	(1,032)	(562,854)	(1,847,624)	0.005469	(10,096)	(20,179)	0.766497	(26,326)
2022 March	(2,413,890)	0.233503	(797)	(563,651)	(1,850,239)	0.005469	(10,112)	(30,291)	0.766497	(39,519)
2022 April	(2,416,649)	0.233503	(644)	(564,295)	(1,852,354)	0.005469	(10,125)	(40,416)	0.766497	(52,729)
2022 May	(2,419,406)	0.233503	(644)	(564,939)	(1,854,468)	0.005469	(10,137)	(50,553)	0.766497	(65,953)
2022 June	(2,423,073)	0.233503	(856)	(565,795)	(1,857,278)	0.005469	(10,150)	(60,703)	0.766497	(79,195)
2022 July	(2,427,299)	0.233503	(987)	(566,782)	(1,860,518)	0.005469	(10,167)	(70,870)	0.766497	(92,459)
2022 August	(2,431,903)	0.233503	(1,075)	(567,857)	(1,864,046)	0.005469	(10,185)	(81,055)	0.766497	(105,747)
2022 September	(2,435,716)	0.233503	(890)	(568,747)	(1,866,969)	0.005469	(10,203)	(91,258)	0.766497	(119,058)
2022 October	(2,438,354)	0.233503	(616)	(569,363)	(1,868,991)	0.005469	(10,216)	(101,474)	0.766497	(132,387)
2022 November	(2,440,939)	0.233503	(603)	(569,967)	(1,870,972)	0.005469	(10,227)	(111,701)	0.766497	(145,729)
2022 December	(2,447,520)	0.233503	(1,537)	(571,503)	(1,876,017)	0.005469	(10,246)	(121,948)	0.766497	(159,097)
Checks			(10,024)	(10,024)	(571,503)		(121,948)			(159,097)

Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022 39,785
Final Gross up of Return to Pretax for Vintage 2020 **(119,312)**

Note 1: Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022

Note 2: Beginning Balance for NC Residential Revenue Collected has been adjusted to correct understatement of revenues from prior rider filing

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Non- Residential EE Programs Vintage 2020

NC Non- Residential EE	Non-Residential			Program			NC Residential	NC Non-Residential	Non-Residential EE	
	EE Program Costs		NC Allocated EE	Performance			Revenue	EE Program	Program Costs	(Over)/Under
	Incurred	NC Allocation %	Program Costs	Incentives	Lost Revenues	Total Costs	Collected ²	Collection %	Revenue Collected	Collection
		Listebarger Exhibit 5 pg 3, Line 4						100% used due to overcollection		
Beginning Balance ¹	30,082,572		22,026,843	7,199,363	18,275,484	47,501,689	53,961,294		(53,989,132)	(6,487,442)
2022 January		73.2212736%		(3,004)	(5,091)	(8,096)	55,076	100.00%	(55,076)	(63,172)
2022 February		73.2212736%		(3,004)	(5,091)	(8,096)	(528,756)	100.00%	528,756	520,661
2022 March		73.2212736%		(3,004)	(5,091)	(8,096)	(549,551)	100.00%	549,551	541,456
2022 April		73.2212736%		(3,004)	(5,091)	(8,096)	(487,099)	100.00%	487,099	479,003
2022 May		73.2212736%		(3,004)	(5,091)	(8,096)	(530,170)	100.00%	530,170	522,074
2022 June		73.2212736%		(3,004)	(5,091)	(8,096)	(632,107)	100.00%	632,107	624,012
2022 July		73.2212736%		(3,004)	(5,091)	(8,096)	(662,226)	100.00%	662,226	654,130
2022 August		73.2212736%		(3,004)	(5,091)	(8,096)	(725,038)	100.00%	725,038	716,942
2022 September		73.2212736%		(3,004)	(5,091)	(8,096)	(663,355)	100.00%	663,355	655,260
2022 October		73.2212736%		(3,004)	(5,091)	(8,096)	(534,006)	100.00%	534,006	525,911
2022 November		73.2212736%		(3,004)	(5,091)	(8,096)	(489,645)	100.00%	489,645	481,549
2022 December		73.2212736%		(3,004)	(5,091)	(8,096)	(664,048)	100.00%	664,048	655,952
	30,082,572		22,026,843	7,163,312	18,214,388	47,404,543	47,550,369		(47,578,207)	(173,664)

Vintage is overcollected. Interest is calculated on all components.

100% of all revenues offset the overcollected balance.

NC Non-Residential EE	Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
		1/2022 - 12/2022				6.56%			0.766497	
Beginning Balance	(6,487,442)			(1,514,837)	(4,972,605)					
2022 January	(6,550,614)	0.233503	(14,751)	(1,529,588)	(5,021,026)	0.005469	(27,328)	(27,328)	0.766497	(35,654)
2022 February	(6,029,953)	0.233503	121,576	(1,408,012)	(4,621,941)	0.005469	(26,370)	(53,698)	0.766497	(70,056)
2022 March	(5,488,498)	0.233503	126,432	(1,281,581)	(4,206,917)	0.005469	(24,143)	(77,841)	0.766497	(101,555)
2022 April	(5,009,494)	0.233503	111,849	(1,169,732)	(3,839,762)	0.005469	(22,004)	(99,846)	0.766497	(130,262)
2022 May	(4,487,420)	0.233503	121,906	(1,047,826)	(3,439,594)	0.005469	(19,906)	(119,752)	0.766497	(156,232)
2022 June	(3,863,409)	0.233503	145,709	(902,118)	(2,961,291)	0.005469	(17,504)	(137,256)	0.766497	(179,069)
2022 July	(3,209,279)	0.233503	152,741	(749,376)	(2,459,902)	0.005469	(14,825)	(152,080)	0.766497	(198,409)
2022 August	(2,492,336)	0.233503	167,408	(581,968)	(1,910,368)	0.005469	(11,951)	(164,031)	0.766497	(214,001)
2022 September	(1,837,076)	0.233503	153,005	(428,963)	(1,408,114)	0.005469	(9,075)	(173,106)	0.766497	(225,840)
2022 October	(1,311,166)	0.233503	122,802	(306,161)	(1,005,004)	0.005469	(6,599)	(179,705)	0.766497	(234,449)
2022 November	(829,616)	0.233503	112,443	(193,718)	(635,899)	0.005469	(4,487)	(184,192)	0.766497	(240,304)
2022 December	(173,664)	0.233503	153,167	(40,551)	(133,113)	0.005469	(2,103)	(186,295)	0.766497	(243,047)
Checks			1,474,286	1,474,286	(40,551)		(186,295)			(243,047)

Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

180,921

Final Gross up of Return to Pretax for Vintage 2020

(62,127)

Note 1: Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

Note 2: Beginning Balance for NC Residential Revenue Collected has been adjusted to correct understatement of revenues from prior rider filing.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation -Non - Residential DSM Programs Vintage 2020

NC Non- Residential DSM	Total System NC DSM Program Costs Incurred	NC Non- Residential DSM Allocation %	NC Allocated DSM Non-Residential Program Costs	Program Incentives	Total Costs	NC Non-Residential DSM Revenue Collected ²	NC Non-Residential DSM Program Collection %	Non-Residential DSM Program Costs Revenue Collected	(Over)/Under Collection
		Listebarger Exhibit 5 pg. 3, Line 10					100% used due to overcollection		
Beginning Balance¹	29,327,255		11,871,383	3,855,826	15,727,210	17,752,122		(17,752,122)	(2,024,912)
2022 January		40.4790117%	-	1,846	1,846	(72,538)	100.0000000%	72,538	74,385
2022 February		40.4790117%	-	1,846	1,846	(149,090)	100.0000000%	149,090	150,937
2022 March		40.4790117%	-	1,846	1,846	(153,740)	100.0000000%	153,740	155,586
2022 April		40.4790117%	-	1,846	1,846	(140,158)	100.0000000%	140,158	142,004
2022 May		40.4790117%	-	1,846	1,846	(148,413)	100.0000000%	148,413	150,259
2022 June		40.4790117%	-	1,846	1,846	(181,069)	100.0000000%	181,069	182,916
2022 July		40.4790117%	-	1,846	1,846	(186,690)	100.0000000%	186,690	188,536
2022 August		40.4790117%	-	1,846	1,846	(203,204)	100.0000000%	203,204	205,050
2022 September		40.4790117%	-	1,846	1,846	(186,476)	100.0000000%	186,476	188,322
2022 October		40.4790117%	-	1,846	1,846	(155,557)	100.0000000%	155,557	157,403
2022 November		40.4790117%	-	1,846	1,846	(143,082)	100.0000000%	143,082	144,928
2022 December		40.4790117%	-	1,846	1,846	(215,098)	100.0000000%	215,098	216,944
	29,327,255		11,871,383	3,877,982	15,749,365	15,817,007		(15,817,007)	(67,642)

Vintage is overcollected. Interest is calculated on all components.

100% of all revenues offset the overcollected balance.

NC Non-Residential DSM	Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
		1/2022 - 12/2022				6.56%			0.766497	
Beginning Balance	(2,024,912)			(472,823)	(1,552,089)					
2022 January	74,385	0.233503	17,369	(455,454)	529,839	0.005469	(2,795)	(2,795)	0.766497	(3,647)
2022 February	225,321	0.233503	35,244	(420,210)	645,531	0.005469	3,214	419	0.766497	546
2022 March	380,907	0.233503	36,330	(383,880)	764,787	0.005469	3,857	4,275	0.766497	5,578
2022 April	522,912	0.233503	33,158	(350,722)	873,633	0.005469	4,480	8,756	0.766497	11,423
2022 May	673,170	0.233503	35,086	(315,636)	988,806	0.005469	5,093	13,849	0.766497	18,068
2022 June	856,086	0.233503	42,711	(272,924)	1,129,010	0.005469	5,791	19,640	0.766497	25,623
2022 July	1,044,622	0.233503	44,024	(228,901)	1,273,523	0.005469	6,570	26,210	0.766497	34,195
2022 August	1,249,673	0.233503	47,880	(181,021)	1,430,693	0.005469	7,395	33,605	0.766497	43,842
2022 September	1,437,995	0.233503	43,974	(137,047)	1,575,042	0.005469	8,219	41,824	0.766497	54,566
2022 October	1,595,398	0.233503	36,754	(100,293)	1,695,691	0.005469	8,944	50,769	0.766497	66,235
2022 November	1,740,326	0.233503	33,841	(66,452)	1,806,778	0.005469	9,578	60,346	0.766497	78,730
2022 December	1,957,270	0.233503	50,657	(15,795)	1,973,065	0.005469	10,336	70,683	0.766497	92,215
Checks				457,028	457,028	(15,795)	70,683			92,215

Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

Final Gross up of Return to Pretax for Vintage 2020 **124,794**

Note 1: Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

Note 2: Beginning Balance for NC Residential Revenue Collected has been adjusted to correct understatement of revenues from prior rider filing.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Residential EE Programs Vintage 2021

		Residential EE Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	Program Incentives	Lost Revenues	Total Costs	NC Residential Revenue Collected	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
NC Residential EE		Listebarger Exhibit 5 pg. 4, Line 4							100% used due to overcollection		
Beginning Balance¹		35,677,735		26,231,472	2,568,356	23,363,537	52,163,365	64,747,858		(64,747,858)	(12,584,493)
2022	January		73.5233682%	-	(21,353)	69,781	48,429	219,423	100.0000%	(219,423)	(170,995)
2022	February		73.5233682%	-	(21,353)	69,781	48,429	659,132	100.0000%	(659,132)	(610,704)
2022	March		73.5233682%	-	(21,353)	69,781	48,429	509,130	100.0000%	(509,130)	(460,701)
2022	April		73.5233682%	-	(21,353)	69,781	48,429	411,612	100.0000%	(411,612)	(363,183)
2022	May		73.5233682%	-	(21,353)	69,781	48,429	411,429	100.0000%	(411,429)	(363,000)
2022	June		73.5233682%	-	(21,353)	69,781	48,429	547,027	100.0000%	(547,027)	(498,599)
2022	July		73.5233682%	-	(21,353)	69,781	48,429	630,604	100.0000%	(630,604)	(582,176)
2022	August		73.5233682%	-	(21,353)	69,781	48,429	686,873	100.0000%	(686,873)	(638,444)
2022	September		73.5233682%	-	(21,353)	69,781	48,429	568,856	100.0000%	(568,856)	(520,427)
2022	October		73.5233682%	-	(21,353)	69,781	48,429	393,647	100.0000%	(393,647)	(345,218)
2022	November		73.5233682%	-	(21,353)	69,781	48,429	385,609	100.0000%	(385,609)	(337,180)
2022	December		73.5233682%	-	(21,353)	69,781	48,429	981,914	100.0000%	(981,914)	(933,486)
		35,677,735		26,231,472	2,312,125	24,200,911	52,744,508	71,153,114		(71,153,114)	(18,408,605)

Vintage is overcollected. Interest is calculated on all components.

100% of all revenues offset the overcollected balance.

		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
NC Residential EE		1/2022 - 12/2022					6.56%			0.766497	
Beginning Balance		(12,584,493)			(2,938,517)	(9,645,976)					
2022	January	(12,755,487)	0.233503	(39,928)	(2,978,445)	(9,777,043)	0.005469	(53,114)	(53,114)	0.766497	(69,294)
2022	February	(13,366,191)	0.233503	(142,601)	(3,121,046)	(10,245,146)	0.005469	(54,752)	(107,866)	0.766497	(140,726)
2022	March	(13,826,893)	0.233503	(107,575)	(3,228,621)	(10,598,272)	0.005469	(56,998)	(164,865)	0.766497	(215,088)
2022	April	(14,190,076)	0.233503	(84,804)	(3,313,425)	(10,876,651)	0.005469	(58,725)	(223,590)	0.766497	(291,703)
2022	May	(14,553,076)	0.233503	(84,762)	(3,398,187)	(11,154,889)	0.005469	(60,247)	(283,837)	0.766497	(370,304)
2022	June	(15,051,675)	0.233503	(116,424)	(3,514,611)	(11,537,063)	0.005469	(62,053)	(345,890)	0.766497	(451,261)
2022	July	(15,633,850)	0.233503	(135,940)	(3,650,551)	(11,983,299)	0.005469	(64,319)	(410,209)	0.766497	(535,173)
2022	August	(16,272,295)	0.233503	(149,079)	(3,799,630)	(12,472,665)	0.005469	(66,877)	(477,086)	0.766497	(622,423)
2022	September	(16,792,722)	0.233503	(121,521)	(3,921,151)	(12,871,571)	0.005469	(69,306)	(546,392)	0.766497	(712,843)
2022	October	(17,137,940)	0.233503	(80,609)	(4,001,760)	(13,136,179)	0.005469	(71,121)	(617,512)	0.766497	(805,629)
2022	November	(17,475,120)	0.233503	(78,733)	(4,080,493)	(13,394,627)	0.005469	(72,551)	(690,063)	0.766497	(900,281)
2022	December	(18,408,605)	0.233503	(217,972)	(4,298,465)	(14,110,141)	0.005469	(75,214)	(765,277)	0.766497	(998,409)
Checks				(1,359,948)	(1,359,948)	(4,298,465)		(765,277)			(998,409)

Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

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Final Gross up of Return to Pretax for Vintage 2021

(998,375)

Note 1: Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Residential DSM Programs Vintage 2021

NC Residential DSM	Total System NC DSM Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	Program Incentives	Total Costs	NC Residential Revenue Collected	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
	Listebarger Exhibit 5 pg. 4, Line 9					100% used due to overcollection			
Beginning Balance¹	32,876,164		11,489,414	2,788,739	14,278,153	17,245,048		(17,245,048)	(2,966,895)
2022 January		34.9475492%	-	(37)	(37)	-	100.0000%	-	(37)
2022 February		34.9475492%	-	(37)	(37)	-	100.0000%	-	(37)
2022 March		34.9475492%	-	(37)	(37)	-	100.0000%	-	(37)
2022 April		34.9475492%	-	(37)	(37)	-	100.0000%	-	(37)
2022 May		34.9475492%	-	(37)	(37)	-	100.0000%	-	(37)
2022 June		34.9475492%	-	(37)	(37)	-	100.0000%	-	(37)
2022 July		34.9475492%	-	(37)	(37)	-	100.0000%	-	(37)
2022 August		34.9475492%	-	(37)	(37)	-	100.0000%	-	(37)
2022 September		34.9475492%	-	(37)	(37)	-	100.0000%	-	(37)
2022 October		34.9475492%	-	(37)	(37)	-	100.0000%	-	(37)
2022 November		34.9475492%	-	(37)	(37)	-	100.0000%	-	(37)
2022 December		34.9475492%	-	(37)	(37)	-	100.0000%	-	(37)
	32,876,164		11,489,414	2,788,295	14,277,708	17,245,048		(17,245,048)	(2,967,339)

Vintage is overcollected. Interest is calculated on all components.

100% of all revenues offset the overcollected balance.

NC Residential DSM	Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
	1/2022 - 12/2022					6.56%			0.766497	
Beginning Balance	(2,966,895)			(692,779)	(2,274,116)					
2022 January	(2,966,932)	0.233503	(9)	(692,787)	(2,274,144)	0.005469	(12,438)	(12,438)	0.766497	(16,227)
2022 February	(2,966,969)	0.233503	(9)	(692,796)	(2,274,173)	0.005469	(12,438)	(24,875)	0.766497	(32,453)
2022 March	(2,967,006)	0.233503	(9)	(692,805)	(2,274,201)	0.005469	(12,438)	(37,313)	0.766497	(48,680)
2022 April	(2,967,043)	0.233503	(9)	(692,813)	(2,274,229)	0.005469	(12,438)	(49,751)	0.766497	(64,908)
2022 May	(2,967,080)	0.233503	(9)	(692,822)	(2,274,258)	0.005469	(12,438)	(62,190)	0.766497	(81,135)
2022 June	(2,967,117)	0.233503	(9)	(692,831)	(2,274,286)	0.005469	(12,438)	(74,628)	0.766497	(97,362)
2022 July	(2,967,154)	0.233503	(9)	(692,839)	(2,274,315)	0.005469	(12,439)	(87,067)	0.766497	(113,590)
2022 August	(2,967,191)	0.233503	(9)	(692,848)	(2,274,343)	0.005469	(12,439)	(99,505)	0.766497	(129,818)
2022 September	(2,967,228)	0.233503	(9)	(692,857)	(2,274,372)	0.005469	(12,439)	(111,944)	0.766497	(146,046)
2022 October	(2,967,265)	0.233503	(9)	(692,865)	(2,274,400)	0.005469	(12,439)	(124,383)	0.766497	(162,275)
2022 November	(2,967,302)	0.233503	(9)	(692,874)	(2,274,428)	0.005469	(12,439)	(136,822)	0.766497	(178,503)
2022 December	(2,967,339)	0.233503	(9)	(692,883)	(2,274,457)	0.005469	(12,439)	(149,262)	0.766497	(194,732)
Checks			(104)	(104)	(692,883)		(149,262)			(194,732)

Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

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Final Gross up of Return to Pretax for Vintage 2021 **(194,724)**

Note 1: Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Non- Residential EE Programs Vintage 2021

NC Non- Residential EE		Non-Residential EE Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	Program Incentives	Lost Revenues	Total Costs	NC Residential Revenue Collected	NC Non-Residential EE Program Collection %	Non-Residential EE Program Costs Revenue Collected	(Over)/Under Collection
		Listebarger Exhibit 5 pg 4, Line 4							100% used due to overcollection		
Beginning Balance¹		40,469,592		29,754,607	7,442,891	15,035,634	52,233,133	50,564,874		(50,564,874)	(20,810,267)
2022	January		73.5233682%	-	(16,517)	34,502	17,985	1,195,863	100.0000000%	(1,195,863)	(1,177,878)
2022	February		73.5233682%	-	(16,517)	34,502	17,985	1,050,375	100.0000000%	(1,050,375)	(1,032,390)
2022	March		73.5233682%	-	(16,517)	34,502	17,985	960,257	100.0000000%	(960,257)	(942,272)
2022	April		73.5233682%	-	(16,517)	34,502	17,985	939,274	100.0000000%	(939,274)	(921,289)
2022	May		73.5233682%	-	(16,517)	34,502	17,985	977,631	100.0000000%	(977,631)	(959,646)
2022	June		73.5233682%	-	(16,517)	34,502	17,985	1,162,389	100.0000000%	(1,162,389)	(1,144,404)
2022	July		73.5233682%	-	(16,517)	34,502	17,985	1,222,579	100.0000000%	(1,222,579)	(1,204,594)
2022	August		73.5233682%	-	(16,517)	34,502	17,985	1,336,738	100.0000000%	(1,336,738)	(1,318,753)
2022	September		73.5233682%	-	(16,517)	34,502	17,985	1,228,568	100.0000000%	(1,228,568)	(1,210,583)
2022	October		73.5233682%	-	(16,517)	34,502	17,985	984,466	100.0000000%	(984,466)	(966,481)
2022	November		73.5233682%	-	(16,517)	34,502	17,985	903,916	100.0000000%	(903,916)	(885,931)
2022	December		73.5233682%	-	(16,517)	34,502	17,985	1,324,818	100.0000000%	(1,324,818)	(1,306,833)
		40,469,592		29,754,607	7,244,689	15,449,656	52,448,952	63,851,749		(63,851,749)	(33,881,322)

Vintage is overcollected. Interest is calculated on all components.

100% of all revenues offset the overcollected balance.

NC Non-Residential EE		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
		1/2022 - 12/2022					6.56%			0.766497	
Beginning Balance		(20,810,267)			(4,859,260)	(15,951,007)					
2022	January	(21,988,145)	0.233503	(275,038)	(5,134,298)	(16,853,847)	0.005469	(89,708)	(89,708)	0.766497	(117,036)
2022	February	(23,020,535)	0.233503	(241,066)	(5,375,364)	(17,645,171)	0.005469	(94,341)	(184,048)	0.766497	(240,116)
2022	March	(23,962,808)	0.233503	(220,023)	(5,595,387)	(18,367,420)	0.005469	(98,480)	(282,528)	0.766497	(368,596)
2022	April	(24,884,096)	0.233503	(215,124)	(5,810,511)	(19,073,585)	0.005469	(102,386)	(384,914)	0.766497	(502,173)
2022	May	(25,843,743)	0.233503	(224,080)	(6,034,591)	(19,809,151)	0.005469	(106,328)	(491,242)	0.766497	(640,892)
2022	June	(26,988,147)	0.233503	(267,222)	(6,301,813)	(20,686,334)	0.005469	(110,739)	(601,981)	0.766497	(785,366)
2022	July	(28,192,741)	0.233503	(281,276)	(6,583,090)	(21,609,652)	0.005469	(115,662)	(717,643)	0.766497	(936,263)
2022	August	(29,511,495)	0.233503	(307,933)	(6,891,023)	(22,620,472)	0.005469	(120,951)	(838,594)	0.766497	(1,094,060)
2022	September	(30,722,078)	0.233503	(282,675)	(7,173,697)	(23,548,380)	0.005469	(126,253)	(964,847)	0.766497	(1,258,774)
2022	October	(31,688,559)	0.233503	(225,676)	(7,399,374)	(24,289,185)	0.005469	(130,816)	(1,095,663)	0.766497	(1,429,442)
2022	November	(32,574,489)	0.233503	(206,867)	(7,606,241)	(24,968,248)	0.005469	(134,699)	(1,230,362)	0.766497	(1,605,175)
2022	December	(33,881,322)	0.233503	(305,149)	(7,911,390)	(25,969,932)	0.005469	(139,295)	(1,369,657)	0.766497	(1,786,904)
Checks				(3,052,131)	(3,052,131)	(7,911,390)		(1,369,657)			(1,786,904)

Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022

Final Gross up of Return to Pretax for Vintage 2021

(1,786,904)

Note 1: Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation -Non - Residential DSM Programs Vintage 2021

NC Non- Residential DSM	Total System NC DSM Program Costs Incurred	NC Non- Residential DSM Allocation %	NC Allocated DSM Non-Residential Program Costs	Program Incentives	Total Costs	NC Non-Residential DSM Revenue Collected	NC Non-Residential DSM Program Collection %	Non-Residential DSM Program Costs Revenue Collected	(Over)/Under Collection
	Listebarger Exhibit 5 pg. 4, Line 10						100% used due to overcollection		
Beginning Balance¹	32,876,164		12,956,111	3,144,740	16,100,851	18,905,431		(18,905,431)	(2,804,580)
2022 January	-	39.4088278%	-	(44)	(44)	645,727	100.0000000%	(645,727)	(645,771)
2022 February	-	39.4088278%	-	(44)	(44)	1,373,572	100.0000000%	(1,373,572)	(1,373,616)
2022 March	-	39.4088278%	-	(44)	(44)	1,410,702	100.0000000%	(1,410,702)	(1,410,746)
2022 April	-	39.4088278%	-	(44)	(44)	1,292,406	100.0000000%	(1,292,406)	(1,292,450)
2022 May	-	39.4088278%	-	(44)	(44)	1,368,591	100.0000000%	(1,368,591)	(1,368,635)
2022 June	-	39.4088278%	-	(44)	(44)	1,669,315	100.0000000%	(1,669,315)	(1,669,359)
2022 July	-	39.4088278%	-	(44)	(44)	1,720,836	100.0000000%	(1,720,836)	(1,720,880)
2022 August	-	39.4088278%	-	(44)	(44)	1,872,277	100.0000000%	(1,872,277)	(1,872,321)
2022 September	-	39.4088278%	-	(44)	(44)	1,716,913	100.0000000%	(1,716,913)	(1,716,957)
2022 October	-	39.4088278%	-	(44)	(44)	1,431,089	100.0000000%	(1,431,089)	(1,431,133)
2022 November	-	39.4088278%	-	(44)	(44)	1,316,574	100.0000000%	(1,316,574)	(1,316,618)
2022 December	-	39.4088278%	-	(44)	(44)	1,972,770	100.0000000%	(1,972,770)	(1,972,814)
	32,876,164		12,956,111	3,144,214	16,100,325	36,696,204		(36,696,204)	(20,595,879)

Vintage is overcollected. Interest is calculated on all components.

100% of all revenues offset the overcollected balance.

NC Non-Residential DSM	Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
	1/2022 - 12/2022					6.56%			0.766497	
Beginning Balance	(2,804,580)			(654,878)	(2,149,702)					
2022 January	(645,771)	0.233503	(150,789)	(805,667)	159,897	0.005469	(5,441)	(5,441)	0.766497	(7,099)
2022 February	(2,019,387)	0.233503	(320,744)	(1,126,411)	(892,976)	0.005469	(2,005)	(7,446)	0.766497	(9,714)
2022 March	(3,430,133)	0.233503	(329,413)	(1,455,824)	(1,974,309)	0.005469	(7,841)	(15,287)	0.766497	(19,944)
2022 April	(4,722,583)	0.233503	(301,791)	(1,757,615)	(2,964,968)	0.005469	(13,507)	(28,794)	0.766497	(37,565)
2022 May	(6,091,218)	0.233503	(319,580)	(2,077,195)	(4,014,022)	0.005469	(19,085)	(47,878)	0.766497	(62,464)
2022 June	(7,760,576)	0.233503	(389,800)	(2,466,996)	(5,293,581)	0.005469	(25,452)	(73,331)	0.766497	(95,670)
2022 July	(9,481,456)	0.233503	(401,831)	(2,868,826)	(6,612,630)	0.005469	(32,559)	(105,889)	0.766497	(138,147)
2022 August	(11,353,777)	0.233503	(437,193)	(3,306,019)	(8,047,758)	0.005469	(40,090)	(145,980)	0.766497	(190,450)
2022 September	(13,070,734)	0.233503	(400,915)	(3,706,934)	(9,363,801)	0.005469	(47,613)	(193,593)	0.766497	(252,569)
2022 October	(14,501,867)	0.233503	(334,174)	(4,041,107)	(10,460,760)	0.005469	(54,212)	(247,805)	0.766497	(323,296)
2022 November	(15,818,485)	0.233503	(307,434)	(4,348,542)	(11,469,944)	0.005469	(59,971)	(307,777)	0.766497	(401,536)
2022 December	(17,791,299)	0.233503	(460,658)	(4,809,200)	(12,982,100)	0.005469	(66,866)	(374,643)	0.766497	(488,773)
Checks			(4,154,322)	(4,154,322)	(4,809,200)		(374,643)			(488,773)

Adjustment to interest calculation to account for corrections as noted in Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

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Final Gross up of Return to Pretax for Vintage 2021 **(488,760)**

Note 1: Beginning Balances tie to Docket No. E-7, Sub 1265 Listebarger Supplemental Testimony and Exhibits filed 5/16/2022.

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Residential EE Programs Vintage 2022

		Residential EE Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	Program Incentives	Lost Revenues	Total Costs	NC Residential Revenue Collected	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
NC Residential EE		Listebarger Exhibit 5 pg. 5, Line 4							100% used due to overcollection		
2022	January	1,214,369	73.8925998%	897,329	116,185	585,834	1,599,348	2,242,737	100.0000%	(2,242,737)	(643,389)
2022	February	4,170,134	73.8925998%	3,081,420	398,980	2,011,748	5,492,149	6,737,028	100.0000%	(6,737,028)	(1,244,879)
2022	March	3,836,886	73.8925998%	2,835,175	367,096	1,850,983	5,053,255	5,203,843	100.0000%	(5,203,843)	(150,589)
2022	April	2,301,606	73.8925998%	1,700,716	220,208	1,110,336	3,031,260	4,207,109	100.0000%	(4,207,109)	(1,175,849)
2022	May	3,394,836	73.8925998%	2,508,532	324,803	1,637,730	4,471,066	4,205,234	100.0000%	(4,205,234)	265,832
2022	June	4,654,060	73.8925998%	3,439,006	445,280	2,245,203	6,129,489	5,591,193	100.0000%	(5,591,193)	538,295
2022	July	3,622,279	73.8925998%	2,676,596	346,564	1,747,453	4,770,613	6,445,441	100.0000%	(6,445,441)	(1,674,828)
2022	August	3,009,121	73.8925998%	2,223,518	287,899	1,451,654	3,963,071	7,020,565	100.0000%	(7,020,565)	(3,057,494)
2022	September	4,573,148	73.8925998%	3,379,218	437,539	2,206,169	6,022,926	5,814,303	100.0000%	(5,814,303)	208,623
2022	October	3,625,286	73.8925998%	2,678,818	346,851	1,748,903	4,774,573	4,023,485	100.0000%	(4,023,485)	751,088
2022	November	3,724,805	73.8925998%	2,752,355	356,373	1,796,913	4,905,642	3,941,327	100.0000%	(3,941,327)	964,314
2022	December	4,625,763	73.8925998%	3,418,096	442,573	2,231,552	6,092,220	10,036,196	100.0000%	(10,036,196)	(3,943,976)
		42,752,292		31,590,780	4,090,352	20,624,479	56,305,611	65,468,461		(65,468,461)	(9,162,850)

Vintage is overcollected. Interest is calculated on all components.

100% of all revenues offset the overcollected balance.

		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
NC Residential EE		1/2022 - 12/2022				6.56%			0.766497		
2022	January	(643,389)	0.233503	(150,233)	(150,233)	(493,156)	0.005469	(1,349)	(1,349)	0.766497	(1,759)
2022	February	(1,888,268)	0.233503	(290,683)	(440,916)	(1,447,352)	0.005469	(5,306)	(6,655)	0.766497	(8,682)
2022	March	(2,038,857)	0.233503	(35,163)	(476,079)	(1,562,778)	0.005469	(8,231)	(14,887)	0.766497	(19,422)
2022	April	(3,214,706)	0.233503	(274,564)	(750,643)	(2,464,062)	0.005469	(11,012)	(25,898)	0.766497	(33,788)
2022	May	(2,948,874)	0.233503	62,073	(688,571)	(2,260,303)	0.005469	(12,919)	(38,817)	0.766497	(50,643)
2022	June	(2,410,579)	0.233503	125,694	(562,877)	(1,847,701)	0.005469	(11,234)	(50,051)	0.766497	(65,299)
2022	July	(4,085,407)	0.233503	(391,077)	(953,955)	(3,131,452)	0.005469	(13,616)	(63,667)	0.766497	(83,062)
2022	August	(7,142,900)	0.233503	(713,934)	(1,667,889)	(5,475,012)	0.005469	(23,535)	(87,202)	0.766497	(113,767)
2022	September	(6,934,277)	0.233503	48,714	(1,619,174)	(5,315,103)	0.005469	(29,507)	(116,709)	0.766497	(152,263)
2022	October	(6,183,189)	0.233503	175,381	(1,443,793)	(4,739,396)	0.005469	(27,495)	(144,204)	0.766497	(188,133)
2022	November	(5,218,875)	0.233503	225,170	(1,218,623)	(4,000,252)	0.005469	(23,899)	(168,103)	0.766497	(219,313)
2022	December	(9,162,850)	0.233503	(920,930)	(2,139,553)	(7,023,297)	0.005469	(30,145)	(198,248)	0.766497	(258,641)
Checks				(2,139,553)	(2,139,553)	(2,139,553)		(198,248)			(258,641)

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Residential DSM Programs Vintage 2022

NC Residential DSM		Total System NC DSM Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	NC Residential Revenue Collected	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
		Listebarger Exhibit 5 pg. 5, Line 8			See calc. at right			
2022	January	606,298	72.9576004%	442,340	546,633	78.9757%	(431,707)	10,633
2022	February	655,186	72.9576004%	478,008	1,642,049	78.9757%	(1,296,819)	(818,811)
2022	March	626,983	72.9576004%	457,432	1,268,359	78.9757%	(1,001,695)	(544,263)
2022	April	1,555,082	72.9576004%	1,134,551	1,025,420	78.9757%	(809,832)	324,719
2022	May	696,737	72.9576004%	508,322	1,024,963	78.9757%	(809,471)	(301,149)
2022	June	591,490	72.9576004%	431,537	1,362,769	78.9757%	(1,076,256)	(644,719)
2022	July	3,178,324	72.9576004%	2,318,829	1,570,979	78.9757%	(1,240,691)	1,078,138
2022	August	2,765,679	72.9576004%	2,017,773	1,711,157	78.9757%	(1,351,398)	666,375
2022	September	2,674,591	72.9576004%	1,951,317	1,417,149	78.9757%	(1,119,203)	832,114
2022	October	3,138,931	72.9576004%	2,290,089	980,664	78.9757%	(774,486)	1,515,603
2022	November	827,525	72.9576004%	603,743	960,639	78.9757%	(758,671)	(154,929)
2022	December	508,374	72.9576004%	370,897	2,446,172	78.9757%	(1,931,881)	(1,560,984)
		17,825,199		13,004,838	15,956,954		(12,602,111)	402,727

Program Costs to be Recovered	13,004,838
Revenue Requirement	16,466,892
% Revenue related to Program Costs	78.9757%

NC Residential DSM		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
		1/2022 - 12/2022					6.56%			0.766497	
2022	January	10,633	0.233503	2,483	2,483	8,150	0.005469	22	22	0.766497	29
2022	February	(808,178)	0.233503	(191,195)	(188,712)	(619,466)	0.005469	(1,672)	(1,649)	0.766497	(2,152)
2022	March	(1,352,441)	0.233503	(127,087)	(315,799)	(1,036,642)	0.005469	(4,529)	(6,178)	0.766497	(8,060)
2022	April	(1,027,723)	0.233503	75,823	(239,976)	(787,746)	0.005469	(4,989)	(11,167)	0.766497	(14,569)
2022	May	(1,328,871)	0.233503	(70,319)	(310,295)	(1,018,576)	0.005469	(4,940)	(16,107)	0.766497	(21,013)
2022	June	(1,973,591)	0.233503	(150,544)	(460,839)	(1,512,751)	0.005469	(6,922)	(23,029)	0.766497	(30,044)
2022	July	(895,453)	0.233503	251,748	(209,091)	(686,362)	0.005469	(6,014)	(29,042)	0.766497	(37,890)
2022	August	(229,078)	0.233503	155,601	(53,490)	(175,588)	0.005469	(2,357)	(31,400)	0.766497	(40,965)
2022	September	603,036	0.233503	194,301	140,811	462,226	0.005469	784	(30,616)	0.766497	(39,942)
2022	October	2,118,639	0.233503	353,898	494,709	1,623,931	0.005469	5,705	(24,911)	0.766497	(32,500)
2022	November	1,963,710	0.233503	(36,176)	458,532	1,505,178	0.005469	8,557	(16,354)	0.766497	(21,336)
2022	December	402,727	0.233503	(364,494)	94,038	308,689	0.005469	4,960	(11,394)	0.766497	(14,865)
Checks				94,038	94,038	94,038		(11,394)			(14,865)

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Non- Residential EE Programs Vintage 2022

NC Non- Residential EE		Non-Residential EE Program Costs	NC Allocation %	NC Allocated EE Program Costs	Program Incentives	Lost Revenues	Total Costs	NC Residential Revenue Collected	NC Non-Residential EE Program Collection %	Non-Residential EE Program Costs Revenue Collected	(Over)/Under Collection
		Incurred									
Listebarger Exhibit 5 pg 5, Line 4											
2022	January	3,270,770	73.8925998%	2,416,857	514,961	(83,862)	2,847,956	2,428,124	100.0000000%	(2,428,124)	419,831
2022	February	3,369,866	73.8925998%	2,490,081	530,563	(86,403)	2,934,241	4,960,670	100.0000000%	(4,960,670)	(2,026,429)
2022	March	4,658,859	73.8925998%	3,442,552	733,506	(119,453)	4,056,606	5,010,684	100.0000000%	(5,010,684)	(954,078)
2022	April	3,863,126	73.8925998%	2,854,565	608,224	(99,050)	3,363,738	4,535,727	100.0000000%	(4,535,727)	(1,171,989)
2022	May	2,785,650	73.8925998%	2,058,389	438,582	(71,424)	2,425,547	4,874,727	100.0000000%	(4,874,727)	(2,449,179)
2022	June	3,108,254	73.8925998%	2,296,769	489,374	(79,695)	2,706,448	5,794,636	100.0000000%	(5,794,636)	(3,088,188)
2022	July	3,003,595	73.8925998%	2,219,434	472,896	(77,012)	2,615,319	6,066,153	100.0000000%	(6,066,153)	(3,450,835)
2022	August	2,842,552	73.8925998%	2,100,436	447,541	(72,883)	2,475,094	6,677,888	100.0000000%	(6,677,888)	(4,202,794)
2022	September	3,191,286	73.8925998%	2,358,124	502,447	(81,824)	2,778,746	6,114,285	100.0000000%	(6,114,285)	(3,335,538)
2022	October	3,396,262	73.8925998%	2,509,586	534,719	(87,080)	2,957,226	4,912,608	100.0000000%	(4,912,608)	(1,955,383)
2022	November	2,781,223	73.8925998%	2,055,118	437,885	(71,310)	2,421,693	4,507,723	100.0000000%	(4,507,723)	(2,086,031)
2022	December	3,207,420	73.8925998%	2,370,046	504,987	(82,238)	2,792,795	7,235,553	100.0000000%	(7,235,553)	(4,442,758)
NR E-2, Sub 1180 Adjustment (AEC) ¹		468,065	100.0000000%	468,065			468,065			-	468,065
		39,946,926		29,640,022	6,215,684	(1,012,233)	34,843,473	63,118,778		(63,118,778)	(28,275,305)

Vintage is overcollected. Interest is
calculated on all components.

100% of all revenues offset the
overcollected balance.

NC Non-Residential EE		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
		1/2022 - 12/2022					6.56%			0.766497	
2022	January	419,831	0.233503	98,032	98,032	321,799	0.005469	880	880	0.766497	1,148
2022	February	(1,606,598)	0.233503	(473,177)	(375,145)	(1,231,452)	0.005469	(2,488)	(1,608)	0.766497	(2,097)
2022	March	(2,560,675)	0.233503	(222,780)	(597,925)	(1,962,750)	0.005469	(8,735)	(10,342)	0.766497	(13,493)
2022	April	(3,732,664)	0.233503	(273,663)	(871,588)	(2,861,076)	0.005469	(13,191)	(23,534)	0.766497	(30,703)
2022	May	(6,181,843)	0.233503	(571,891)	(1,443,479)	(4,738,364)	0.005469	(20,781)	(44,315)	0.766497	(57,815)
2022	June	(9,270,031)	0.233503	(721,101)	(2,164,580)	(7,105,451)	0.005469	(32,388)	(76,703)	0.766497	(100,069)
2022	July	(12,720,865)	0.233503	(805,780)	(2,970,360)	(9,750,505)	0.005469	(46,094)	(122,797)	0.766497	(160,205)
2022	August	(16,923,660)	0.233503	(981,365)	(3,951,725)	(12,971,934)	0.005469	(62,137)	(184,933)	0.766497	(241,271)
2022	September	(20,259,198)	0.233503	(778,858)	(4,730,583)	(15,528,614)	0.005469	(77,937)	(262,871)	0.766497	(342,951)
2022	October	(22,214,581)	0.233503	(456,588)	(5,187,171)	(17,027,409)	0.005469	(89,027)	(351,898)	0.766497	(459,099)
2022	November	(24,300,611)	0.233503	(487,094)	(5,674,266)	(18,626,346)	0.005469	(97,498)	(449,396)	0.766497	(586,299)
2022	December	(28,275,305)	0.233503	(928,103)	(6,602,368)	(21,672,936)	0.005469	(110,202)	(559,598)	0.766497	(730,073)
Checks				(6,602,368)	(6,602,368)	(6,602,368)		(559,598)			(730,073)

Note 1: AEC Yield Capital, LLC Settlement Adjustment. See Docket No. E-2, Sub 1180 for additional details

Duke Energy Carolinas, LLC
Docket Number E-7 Sub 1285
Estimated Return Calculation - Non - Residential DSM Programs Vintage 2022

		Total System NC DSM Program Costs Incurred	NC Non- Residential DSM Allocation %	NC Allocated DSM Non- Residential Program Costs	Program Incentives	Total Costs	NC Non-Residential DSM Revenue Collected	NC Non-Residential DSM Program Collection %	Non-Residential DSM Program Costs Revenue Collected	(Over)/Under Collection
NC Non- Residential DSM		Listebarger Exhibit 5 pg. 5, Line 8								
		100% used due to overcollection								
2022	January	1,334,791	72.9576004%	973,831	228,875	1,202,707	645,727	100.0000000%	(645,727)	556,980
2022	February	1,290,558	72.9576004%	941,560	228,875	1,170,436	1,373,572	100.0000000%	(1,373,572)	(203,137)
2022	March	1,543,170	72.9576004%	1,125,860	228,875	1,354,735	1,410,702	100.0000000%	(1,410,702)	(55,967)
2022	April	1,557,950	72.9576004%	1,136,643	228,875	1,365,518	1,292,406	100.0000000%	(1,292,406)	73,112
2022	May	1,635,680	72.9576004%	1,193,353	228,875	1,422,229	1,368,591	100.0000000%	(1,368,591)	53,637
2022	June	1,783,909	72.9576004%	1,301,497	228,875	1,530,373	1,669,315	100.0000000%	(1,669,315)	(138,942)
2022	July	1,816,373	72.9576004%	1,325,182	228,875	1,554,057	1,720,836	100.0000000%	(1,720,836)	(166,779)
2022	August	1,793,959	72.9576004%	1,308,829	228,875	1,537,705	1,872,277	100.0000000%	(1,872,277)	(334,572)
2022	September	1,792,392	72.9576004%	1,307,686	228,875	1,536,561	1,716,913	100.0000000%	(1,716,913)	(180,352)
2022	October	1,769,565	72.9576004%	1,291,032	228,875	1,519,908	1,431,089	100.0000000%	(1,431,089)	88,818
2022	November	1,875,715	72.9576004%	1,368,477	228,875	1,597,352	1,316,574	100.0000000%	(1,316,574)	280,778
2022	December	1,965,324	72.9576004%	1,433,854	228,875	1,662,729	1,972,770	100.0000000%	(1,972,770)	(310,041)
		20,159,387		14,707,805	2,746,505	17,454,309	17,790,773		(17,790,773)	(336,464)

Vintage is overcollected. Interest is calculated on all components.

100% of all revenues offset the overcollected balance.

		Cumulative (Over)/Under Recovery	Current Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
NC Non-Residential DSM		1/2022 - 12/2022									
		6.56%									
		0.766497									
2022	January	556,980	0.233503	130,056	130,056	426,923	0.005469	1,167	1,167	0.766497	1,523
2022	February	353,843	0.233503	(47,433)	82,623	271,220	0.005469	1,909	3,077	0.766497	4,014
2022	March	297,876	0.233503	(13,068)	69,555	228,321	0.005469	1,366	4,443	0.766497	5,796
2022	April	370,988	0.233503	17,072	86,627	284,361	0.005469	1,402	5,845	0.766497	7,625
2022	May	424,626	0.233503	12,525	99,151	325,474	0.005469	1,668	7,512	0.766497	9,801
2022	June	285,684	0.233503	(32,443)	66,708	218,976	0.005469	1,489	9,001	0.766497	11,743
2022	July	118,905	0.233503	(38,943)	27,765	91,141	0.005469	848	9,849	0.766497	12,850
2022	August	(215,667)	0.233503	(78,124)	(50,359)	(165,308)	0.005469	(203)	9,646	0.766497	12,585
2022	September	(396,019)	0.233503	(42,113)	(92,472)	(303,547)	0.005469	(1,282)	8,364	0.766497	10,912
2022	October	(307,201)	0.233503	20,739	(71,732)	(235,468)	0.005469	(1,474)	6,890	0.766497	8,989
2022	November	(26,423)	0.233503	65,563	(6,170)	(20,253)	0.005469	(699)	6,191	0.766497	8,077
2022	December	(336,464)	0.233503	(72,396)	(78,565)	(257,899)	0.005469	(761)	5,430	0.766497	7,085
Checks				(78,565)	(78,565)	(78,565)		5,430			7,085

Duke Energy Carolinas, LLC
DSM/EE Actual Revenues Collected from Years 2018-2022 (By Vintage)
and Estimated 2023 Collections from Rider 14 (by Vintage)
Docket Number E-7 Sub 1285
For Vintage Year 2018-2023 Estimate and True Up Calculations

			Actual 2018 Rider 9	Actual 2019 Rider 10	Actual 2020 Rider 11	Actual 2021 Rider 12	Actual 2022 Rider 13	Estimated 2023 Rider 14 ¹	Total
Residential									
Line	EE/DSM	Vintage							
1		Year 2018	83,631,851	6,302,019	25,246,924	2,818,706	2,989,120	(85,952)	120,902,668
2		Year 2019		77,019,837	5,256,186	29,067,535	1,213,627	932,159	113,489,344
3		Year 2020			67,080,991	4,559,292	15,057,971	3,468,367	90,166,622
4		Year 2021				81,992,905	6,405,256	(18,377,366)	70,020,796
5		Year 2022					81,425,415	6,791,458	88,216,873
6		Year 2023						84,573,451	84,573,451
7	Total Residential		\$ 83,631,851	\$ 83,321,856	\$ 97,584,101	\$ 118,438,439	\$ 107,091,390	\$ 77,302,116	\$ 567,369,753
Non-Residential									
	EE								
8		Year 2018	51,998,801	12,546,122	12,186,589	1,712,636	485,022	(320,076)	78,609,094
9		Year 2019		52,862,599	8,227,202	6,920,864	(4,509,335)	991,170	64,492,500
10		Year 2020			43,995,402	9,965,893	(6,410,925)	3,671,208	51,221,578
11		Year 2021				50,564,874	13,286,874	(2,405,825)	61,445,924
12		Year 2022					63,118,778	15,132,477	78,251,255
13		Year 2023						65,754,588	65,754,588
	DSM								
14		Year 2018	14,074,924	777,733	1,176,239	(168,075)	310,867	(33,719)	16,137,969
15		Year 2019		15,674,069	268,398	288,613	(240,150)	57,653	16,048,584
16		Year 2020			17,715,486	36,636	(1,935,115)	(33,042)	15,783,965
17		Year 2021				18,905,431	877,592	(2,882,715)	16,900,308
18		Year 2022					17,790,773	-	17,790,773
19		Year 2023						16,408,519	16,408,519
20	Total Non-Residential		\$ 66,073,725	\$ 81,860,522	\$ 83,569,317	\$ 88,226,872	\$ 82,774,382	\$ 96,340,240	\$ 498,845,058
21	Total Revenue		\$ 149,705,576	\$ 165,182,379	\$ 181,153,418	\$ 206,665,311	\$ 189,865,772	\$ 173,642,356	\$ 1,066,214,811

¹ Rider 14 estimates are based on Order issued in Docket No. E-7 Sub 1265 dated 12/12/2022.

Duke Energy Carolinas, LLC
Vintage Year 2018 Allocation Factors for the Period January 1, 2018 - December 31, 2018
Docket Number E-7 Sub 1285
Allocation Factors

			MWH		
Line	New Mechanism Sales Allocator at Generator				
1	NC Retail MWH Sales Allocation	Company Records	58,534,269		
2	SC Retail MWH Sales Allocation	Company Records	21,966,093		
3	Total Retail	Line 1 + Line 2	80,500,362		
Allocation 1 to state based on kWh sales					
4	NC Retail	Line 1 / Line 3	72.7130507%		
Demand Allocators			NC	SC	Total
5	Residential	Company Records	5,078,308	1,617,566	6,695,874
6	Non Residential	Company Records	6,549,145	2,546,981	9,096,126
7	Total	Line 5 + Line 6	11,627,453	4,164,547	15,792,000
Allocation 2 to state based on peak demand					
8	NC Retail	Line 7, NC / Line 7 Total	73.6287551%		
Allocation 3 NC res vs non-res Peak Demand to retail system peak					
9	NC Residential	Line 5 NC/ Line 7 Total	32.1574721%		
10	NC Non-residential	Line 6 NC/ Line 7 Total	41.4712829%		

Duke Energy Carolinas, LLC
Vintage Year 2019 Allocation Factors for the Period January 1, 2019 - December 31, 2019
Docket Number E-7 Sub 1285
Allocation Factors

			MWH		
Line	New Mechanism Sales Allocator at Generator				
1	NC Retail MWH Sales Allocation	Company Records	62,147,533		
2	SC Retail MWH Sales Allocation	Company Records	22,880,788		
3	Total Retail	Line 1 + Line 2	85,028,321		
Allocation 1 to state based on kWh sales					
4	NC Retail	Line 1 / Line 3	73.0903918%		
Demand Allocators			NC	SC	Total
5	Residential	Company Records	5,420,002	1,681,673	7,101,675
6	Non Residential	Company Records	6,373,991	2,410,334	8,784,325
7	Total	Line 5 + Line 6	11,793,993	4,092,007	15,886,000
Allocation 2 to state based on peak demand					
8	NC Retail	Line 7, NC / Line 7 Total	74.2414264%		
Allocation 3 NC res vs non-res Peak Demand to retail system peak					
9	NC Residential	Line 5 NC/ Line 7 Total	34.1181040%		
10	NC Non-residential	Line 6 NC/ Line 7 Total	40.1233224%		

Duke Energy Carolinas, LLC
Vintage Year 2020 Allocation Factors for the Period January 1, 2020 - December 31, 2020
Docket Number E-7 Sub 1285
Allocation Factors

			<u>MWH</u>		
Line	New Mechanism Sales Allocator at Generator				
1	NC Retail MWH Sales Allocation	Company Records	61,250,523		
2	SC Retail MWH Sales Allocation	Company Records	22,400,744		
3	Total Retail	Line 1 + Line 2	83,651,267		
Allocation 1 to state based on kWh sales					
4	NC Retail	Line 1 / Line 3	73.2212736%		
Demand Allocators			NC	SC	Total
5	Residential	Company Records	5,410,460	1,632,146	7,042,606
6	Non Residential	Company Records	6,495,667	2,508,727	9,004,394
7	Total	Line 5 + Line 6	11,906,127	4,140,873	16,047,000
Allocation 2 to state based on peak demand					
8	NC Retail	Line 7, NC / Line 7 Total	74.1953449%		
Allocation 3 NC res vs non-res Peak Demand to retail system peak					
9	NC Residential	Line 5 NC/ Line 7 Total	33.7163333%		
10	NC Non-residential	Line 6 NC/ Line 7 Total	40.4790117%		

Duke Energy Carolinas, LLC
Vintage Year 2021 Allocation Factors for the Period January 1, 2021 - December 31, 2021
Docket Number E-7 Sub 1285
Allocation Factors

			MWH		
Line	New Mechanism Sales Allocator at Generator				
1	NC Retail MWH Sales Allocation	Company Records	59,254,276		
2	SC Retail MWH Sales Allocation	Company Records	21,338,163		
3	Total Retail	Line 1 + Line 2	80,592,439		
Allocation 1 to state based on kWh sales					
4	NC Retail	Line 1 / Line 3	73.5233682%		
Demand Allocators			NC	SC	Total
5	Residential	Company Records	5,482,921	1,710,195	7,193,116
6	Non Residential	Company Records	6,182,851	2,313,033	8,495,884
7	Total	Line 5 + Line 6	11,665,772	4,023,228	15,689,000
Allocation 2 to state based on peak demand					
8	NC Retail	Line 7, NC / Line 7 Total	74.3563771%		
Allocation 3 NC res vs non-res Peak Demand to retail system peak					
9	NC Residential	Line 5 NC/ Line 7 Total	34.9475492%		
10	NC Non-residential	Line 6 NC/ Line 7 Total	39.4088278%		

Duke Energy Carolinas, LLC
Vintage Year 2022 Allocation Factors for the Period January 1, 2022 - December 31, 2024
Docket Number E-7 Sub 1285
Allocation Factors

			MWH		
Line	New Mechanism Sales Allocator at Generator				
1	NC Retail MWH Sales Allocation	Company Records	61,896,779		
2	SC Retail MWH Sales Allocation	Company Records	21,869,091		
3	Total Retail	Line 1 + Line 2	83,765,870		
Allocation 1 to state based on kWh sales					
4	NC Retail	Line 1 / Line 3	73.8925998%		
Demand Allocators			NC	SC	Total
5	Residential	Company Records	5,400,475	1,733,638	7,134,113
6	Non Residential	Company Records	6,080,133	2,521,754	8,601,887
7	Total	Line 5 + Line 6	11,480,608	4,255,392	15,736,000
Allocation 2 to state based on peak demand					
8	NC Retail	Line 7, NC / Line 7 Total	72.9576004%		
Allocation 3 NC res vs non-res Peak Demand to retail system peak					
9	NC Residential	Line 5 NC/ Line 7 Total	34.3192361%		
10	NC Non-residential	Line 6 NC/ Line 7 Total	38.6383643%		

Duke Energy Carolinas, LLC
DSM/EE Cost Recovery Rider 15
Docket Number E-7 Sub 1285
Forecasted 2024 kWh Sales for Rate Period for Vintage Years 2018-2024

Fall 2022 Sales Forecast - kWhs		Forecasted 2024 sales		
North Carolina Retail:				
Line				
1	Residential	23,664,202,369		
2	Non-Residential	36,883,342,167		
3	Total Retail	60,547,544,537		
NC Opt Out Sales		Total Usage	Opt-Outs	Net Usage
Vintage 2018 Actual Opt Out				
4	EE	36,883,342,167	19,725,411,891	17,157,930,277
5	DSM	36,883,342,167	18,366,666,314	18,516,675,854
Vintage 2019 Actual Opt Out				
6	EE	36,883,342,167	19,747,086,762	17,136,255,406
7	DSM	36,883,342,167	18,313,121,252	18,570,220,915
Vintage 2020 Actual Opt Out				
8	EE	36,883,342,167	20,307,553,070	16,575,789,097
9	DSM	36,883,342,167	18,247,943,500	18,635,398,667
Vintage 2021 Actual Opt Out				
10	EE	36,883,342,167	20,231,293,467	16,652,048,700
11	DSM	36,883,342,167	18,206,240,410	18,677,101,757
Vintage 2022 Actual Opt Out				
12	EE	36,883,342,167	20,139,148,287	16,744,193,880
13	DSM	36,883,342,167	18,027,771,399	18,855,570,769
Vintage 2023 Estimated Opt Out				
14	EE	36,883,342,167	19,228,100,842	17,655,241,326
15	DSM	36,883,342,167	17,824,193,674	19,059,148,493
Vintage 2024 Estimated Opt Out				
16	EE	36,883,342,167	19,228,100,842	17,655,241,326
17	DSM	36,883,342,167	17,824,193,674	19,059,148,493

Duke Energy Carolinas, LLC

Electricity No. 4
 North Carolina Eighteenth Revised Leaf No. 62
 Superseding North Carolina Seventeenth Revised Leaf No. 62

RIDER EE (NC) ENERGY EFFICIENCY RIDER

APPLICABILITY (North Carolina Only)

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, 2024, 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 2018-2024 as outlined below. This Rider applies to service supplied under all rate schedules, except rate schedules OL, PL and NL for program years 2017-2024.

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 true-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.

Duke Energy Carolinas, LLC

Electricity No. 4
 North Carolina Eighteenth Revised Leaf No. 62
 Superseding North Carolina Seventeenth Revised Leaf No. 62

**RIDER EE (NC)
 ENERGY EFFICIENCY RIDER**

- 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 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, 2024 through December 31, 2024 including utility assessments are as follows:

Residential

Vintage 2016 ¹ , 2017 ¹ , 2018 ¹ , 2019 ¹ , 2020 ¹ , 2021 ¹ , 2022 ¹	(0.0503) ¢ per kWh
Vintage 2021 ² , 2022 ² , 2023 ² , 2024 ²	<u>0.4320 ¢ per kWh</u>
Total Residential Rate	0.3817 ¢ per kWh

Nonresidential

Vintage 2018 ³	
Energy Efficiency	(0.0001) ¢ per kWh
Demand Side Management	0.0000 ¢ per kWh
Vintage 2019 ³	
Energy Efficiency	(0.0014) ¢ per kWh
Demand Side Management	(0.0001) ¢ per kWh
Vintage 2020 ³	
Energy Efficiency	(0.0068) ¢ per kWh
Demand Side Management	0.0002 ¢ per kWh
Vintage 2021 ³	
Energy Efficiency	0.0231 ¢ per kWh
Demand Side Management	(0.0073) ¢ per kWh
Vintage 2022 ³	
Energy Efficiency	(0.1264) ¢ per kWh
Demand Side Management	(0.0017) ¢ per kWh

Duke Energy Carolinas, LLC

Electricity No. 4

North Carolina Eighteenth Revised Leaf No. 62

Superseding North Carolina Seventeenth Revised Leaf No. 62

**RIDER EE (NC)
ENERGY EFFICIENCY RIDER**

Vintage 2023 ³	
Energy Efficiency	0.0802 ¢ per kWh
Demand Side Management	0.0000 ¢ per kWh
Vintage 2024 ³	
Energy Efficiency	0.3869 ¢ per kWh
Demand Side Management	0.0897 ¢ per kWh
Total Nonresidential Rate	0.4363 ¢ per kWh

¹ Includes the true-up of program costs, shared savings and lost revenues from Vintages 2016, 2017, 2018, 2019, 2020, 2021 and 2022

² Includes prospective component of Vintages 2021, 2022, 2023 and 2024

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.