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OFFICIAL COPY

May 16 2022

May 16, 2022

**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 DSM/EE Cost Recovery Rider –  
Supplemental Testimony and Exhibits  
Docket No. E-7, Sub 1265**

Dear Ms. Dunston:

Enclosed for filing is Duke Energy Carolinas, LLC's Supplemental Testimony and Exhibits of Shannon R. Listebarger for filing in connection with the referenced matter.

Please do not hesitate to contact me if you have any questions.

Sincerely,

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

Kendrick C. Fentress

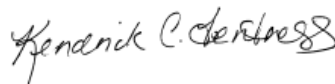
Enclosures

cc: Parties of Record

CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Carolinas, LLC's DSM/EE Cost Recovery Rider – Supplemental Testimony and Exhibits of Shannon R. Listebarger, in Docket No. E-7, Sub 1265, has been served by electronic mail, hand delivery, or by depositing a copy in the United States Mail, 1<sup>st</sup> Class Postage Prepaid, properly addressed to parties of record.

This the 16<sup>th</sup> day of May, 2022.



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May 16 2022

STATE OF NORTH CAROLINA  
UTILITIES COMMISSION  
RALEIGH

DOCKET NO. E-7, SUB 1265

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

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**SUPPLEMENTAL TESTIMONY  
OF SHANNON R.  
LISTEBARGER FOR DUKE  
ENERGY CAROLINAS, LLC**

OFFICIAL COPY

May 16 2022

1                                    **I.        INTRODUCTION AND PURPOSE**

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

3    A.        My name is Shannon R. Listebarger, and my business address is 526 South  
4               Church Street, Charlotte, North Carolina, 28202.

5    **Q.        HAVE YOU PREVIOUSLY FILED TESTIMONY IN THIS**  
6               **PROCEEDING?**

7    A.        Yes, on March 1, 2022, I caused to be pre-filed with the Commission my direct  
8               testimony and exhibit file with seven supporting workpapers.

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

11   A.        The purpose of my supplemental testimony is to present revised rates reflecting  
12               necessary updates and corrections to the calculation of the interest or return due  
13               on over- and under- collections on a number of pages within Listebarger Exhibit  
14               3. The impacted pages of Exhibit 3 include 1, 2, 3, 4, 6, 7, 8, 9, 10, 11 and 12.  
15               These updates also flow forward and impact Exhibit 2 pages 1, 2 and 3 and  
16               Exhibit 1.

17   **Q.        YOUR SUPPLEMENTAL TESTIMONY INCLUDES THE REVISED**  
18               **EXHIBIT FILE WITH THESE UPDATES TO LISTEBARGER**  
19               **EXHIBIT 1, LISTEBARGER EXHIBIT 2 AND LISTEBARGER**  
20               **EXHIBIT 3. WERE THESE SUPPLEMENTAL EXHIBITS PREPARED**  
21               **BY YOU OR AT YOUR DIRECTION AND UNDER YOUR**  
22               **SUPERVISION?**

23   A.        Yes.

1    **Q.     WHAT IS THE TOTAL RATE IMPACT OF THESE UPDATES?**

2    A.     The overall impact to the revenue requirement results in an increase of  
3           \$248,707, with corresponding increases to the billing factors of \$0.0002 for  
4           residential customers and \$0.0015 for non-residential customers. The \$.0015  
5           non-residential impact is made up of increases and decreases based on the  
6           vintages.

7    **Q.     HOW DOES THE COMPANY PROPOSE TO ADDRESS THE IMPACT**  
8           **OF THESE REVISIONS TO CUSTOMER RATES?**

9    A.     The Company proposes that the rates filed in the original application for Rider  
10          14 be the rates billed to customers beginning January 1, 2023 and that the  
11          revised rate impacts as noted here within the supplemental testimony and  
12          accompanying exhibit file be incorporated as a true-up in the Company's next  
13          DSM/EE rider application to be filed on or about February 28, 2023.

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

16   A.     Yes.

DSM/EE Cost Recovery Rider 14  
Docket Number E-7 Sub 1265  
Exhibit Summary of Rider EE Exhibits and Factors

Revised

**Residential Billing Factor for Rider 14 True-up (EMF) Components**

Line			
1	Year 2018 EE/DSM True-Up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 1, Line 15	(106,780)
2	Year 2019 EE/DSM True-Up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 2, Line 15	932,709
3	Year 2020 EE/DSM True-Up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 3, Line 15	958,673
4	Year 2021 EE/DSM True-Up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 4, Line 15	(22,334,861)
5	Total True-up (EMF) Revenue Requirement	Sum Lines 1-4	\$ (20,550,259)
6	Projected NC Residential Sales (kWh) for rate period	Listebarger Exhibit 6, Line 1	22,809,393,337
7	EE/DSM Revenue Requirement EMF Residential Rider EE (cents per kWh)	Line 5 / Line 6 * 100	(0.0901)

**Residential Billing Factor for Rider 14 Prospective Components**

8	Vintage 2020 Total EE/DSM Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 3, Line 15	2,568,275
9	Vintage 2021 Total EE/DSM Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 4, Line 15	3,959,003
10	Vintage 2022 Total EE/DSM Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 5, Line 1	6,791,458
11	Vintage 2023 Total EE/DSM Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 6, Line 11	84,567,117
12	Total Prospective Revenue Requirement	Sum Lines 8-11	\$ 97,885,853
13	Projected NC Residential Sales (kWh) for rate period	Listebarger Exhibit 6, Line 1	22,809,393,337
14	EE/DSM Revenue Requirement Prospective Residential Rider EE (cents per kWh)	Line 12 / Line 13 * 100	0.4291

Total Revenue Requirements in Rider 14 from Residential Customers

15	Total True-up (EMF) Revenue Requirement	Line 5	\$ (20,550,259)
16	Total Prospective Revenue Requirement	Line 12	97,885,853
17	<b>Total EE/DSM Revenue Requirement for Residential Rider EE</b>	Line 15 + Line 16	<b>\$ 77,335,594</b>
18	<b>Total EE/DSM Revenue Requirement for Residential Rider EE (cents per kWh)</b>	Line 7 + Line 14	<b>0.3390</b>

**Non-Residential Billing Factors for Rider 14 True-up (EMF) Components**

19	Vintage Year 2018 EE True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 1, Line 25	\$ (342,180)
20	Projected Year 2018 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 4	15,445,061,521
21	EE Revenue Requirement Year 2018 EMF Non-Residential Rider EE (cents per kWh)	Line 19 / Line 20 * 100	(0.0022)
22	Vintage Year 2018 DSM True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 1, Line 35	\$ (62,531)
23	Projected Year 2018 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 5	16,537,337,560
24	DSM Revenue Requirement Year 2018 EMF Non-Residential Rider EE (cents per kWh)	Line 22 / Line 23 * 100	(0.0004)
25	Vintage Year 2019 EE True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 2, Line 25	\$ 1,039,022
26	Projected Year 2019 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 6	15,395,466,337
27	EE Revenue Requirement Year 2019 EMF Non-Residential Rider EE (cents per kWh)	Line 25 / Line 26 * 100	0.0067
28	Vintage Year 2019 DSM True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 2, Line 35	\$ 56,978
29	Projected Year 2019 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 7	16,570,566,722
30	DSM Revenue Requirement Year 2019 EMF Non-Residential Rider EE (cents per kWh)	Line 28 / Line 29 * 100	0.0003
31	Vintage Year 2020 EE True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 3, Line 25	\$ 7,416
32	Projected Year 2020 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 8	14,831,584,100
33	EE Revenue Requirement Year 2020 EMF Non-Residential Rider EE (cents per kWh)	Line 31 / Line 32 * 100	0.0001
34	Vintage Year 2020 DSM True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 3, Line 35	\$ (209)
35	Projected Year 2020 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 9	16,609,571,340
36	DSM Revenue Requirement Year 2020 EMF Non-Residential Rider EE (cents per kWh)	Line 34 / Line 35 * 100	-
37	Vintage Year 2021 EE True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 4, Line 25	\$ (12,407,806)
38	Projected Year 2021 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 10	14,903,909,177
39	EE Revenue Requirement Year 2021 EMF Non-Residential Rider EE (cents per kWh)	Line 37 / Line 38 * 100	(0.0833)
40	Vintage Year 2021 DSM True-up (EMF) Revenue Requirement	Listebarger Exhibit 2 pg 4, Line 35	\$ (2,882,278)
41	Projected Year 2021 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 11	16,646,430,078
42	DSM Revenue Requirement Year 2021 EMF Non-Residential Rider EE (cents per kWh)	Line 40 / Line 41 * 100	(0.0173)

Listebarger Exhibit 1, page 2  
Supplemental

***Non-Residential Billing Factors for Rider 14 Prospective Components***

43	Vintage Year 2020 EE Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 3, Line 25	\$	3,845,961
44	Projected Vintage 2020 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 8		14,831,584,100
45	<i>EE Revenue Requirement Vintage 2020 Prospective Component for Non-Residential Rider EE (cents per kWh)</i>	Line 43 / Line 44 * 100		<b>0.0259</b>
46	Vintage Year 2021 EE Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 4, Line 25	\$	10,003,040
47	Projected Vintage 2021 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 10		14,903,909,177
48	<i>EE Revenue Requirement Vintage 2021 Prospective Component for Non-Residential Rider EE (cents per kWh)</i>	Line 46 / Line 47 * 100		<b>0.0671</b>
49	Vintage Year 2022 EE Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 5, Line 4	\$	15,132,477
50	Projected Vintage 2022 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 12		15,209,154,609
51	<i>EE Revenue Requirement Vintage 2022 Prospective Component for Non-Residential Rider EE (cents per kWh)</i>	Line 49 / Line 50 * 100		<b>0.0995</b>
52	Vintage Year 2023 EE Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 6, Line 18	\$	65,748,787
53	Projected Vintage 2023 EE Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 14		15,209,154,609
54	<i>EE Revenue Requirement Vintage 2023 Prospective Component for Non-Residential Rider EE (cents per kWh)</i>	Line 52 / Line 53 * 100		<b>0.4323</b>
55	Vintage Year 2023 DSM Prospective Amounts Revenue Requirement	Listebarger Exhibit 2 pg 6, Line 25	\$	16,406,881
56	Projected Vintage 2023 DSM Participants NC Non-Residential Sales (kwh) for rate period	Listebarger Exhibit 6, Line 15		16,907,663,645
57	<i>DSM Revenue Requirement Vintage 2023 Prospective Component for Non-Residential Rider EE (cents per kWh)</i>	Line 55 / Line 56 * 100		<b>0.0970</b>
	<b>Total EMF Rate</b>			<b>(0.0961)</b>
	<b>Total Prospective Rate</b>			<b>0.7218</b>

**Total Revenue Requirements in Rider 14 from Non-Residential Customers**

56	Vintage Year 2018 EE True-up (EMF) Revenue Requirement	Line 19		(342,180)
57	Vintage Year 2018 DSM True-up (EMF) Revenue Requirement	Line 22		(62,531)
58	Vintage Year 2019 EE True-up (EMF) Revenue Requirement	Line 25		1,039,022
59	Vintage Year 2019 DSM True-up (EMF) Revenue Requirement	Line 28		56,978
60	Vintage Year 2020 EE True-up (EMF) Revenue Requirement	Line 31		7,416
61	Vintage Year 2020 DSM True-up (EMF) Revenue Requirement	Line 34		(209)
62	Vintage Year 2021 EE True-up (EMF) Revenue Requirement	Line 37		(12,407,806)
63	Vintage Year 2021 DSM True-up (EMF) Revenue Requirement	Line 40		(2,882,278)
64	Vintage Year 2020 EE Prospective Amounts Revenue Requirement	Line 43		3,845,961
65	Vintage Year 2021 EE Prospective Amounts Revenue Requirement	Line 46		10,003,040
66	Vintage Year 2022 EE Prospective Amounts Revenue Requirement	Line 49		15,132,477
67	Vintage Year 2023 EE Prospective Amounts Revenue Requirement	Line 52		65,748,787
68	Vintage Year 2023 DSM Prospective Amounts Revenue Requirement	Line 55		16,406,881
	<b>Total Non-Residential Revenue Requirement in Rider 14</b>	Sum (Lines 56-68)		<b>96,545,559</b>

Duke Energy Carolinas, LLC  
Docket Number E-7 Sub 1265  
True Up of Year 1, 2 and 3 Lost Revenues for Vintage Year 2018

## RESIDENTIAL Energy Efficiency Programs

Line	Reference	E-7 Sub 1130	E-7 Sub 1164	E-7 Sub 1192	E-7 Sub 1192	E-7 Sub 1230	E-7 Sub 1230	E-7 Sub 1249	E-7 Sub 1265	Year 2018
		Rider 9 Year 1 Estimate	Year 2018 Yr 2 LR Estimate	Rider 11 True up	Year 2018 Year 3 Estimate	Rider 12 True Up	Year 2018 Yr 4 LR Estimate	Rider 13 True up	Rider 14 True up	
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	9,941,319
3	Return on overcollection of Residential EE Program Costs			244,540		1,024,850		750,744	(5,288)	2,014,846
4	Total EE Program Cost and Incentive Components	47,134,873		19,005,325		1,165,498		728,465	152,329	68,186,490
5	Residential DSM Program Cost	9,903,130		(124,235)		0		-	-	9,778,895
6	Residential DSM Earned Utility Incentive	2,569,925		17,215		(5,581)		(289)	573	2,581,843
7	Return on undercollection of Residential DSM Program Costs			(128,626)		(40,884)		(21,193)	68	(90,634)
8	Total DSM Program Cost and Incentive Components	12,473,055		(135,646)		(46,465)		(21,481)	641	12,270,105
9	Total EE/DSM Program Cost and Incentive Components	59,607,928		18,869,679		1,119,034		706,984	152,970	80,456,594
10	Revenue-related taxes and regulatory fees factor **	1,001,402		1,001,352		1,001,302		1,001,302	1,001,302	
11	Total EE/DSM Program Cost and Incentive Revenue Requirement	59,691,498		18,895,191		1,120,491		707,904	153,169	80,568,253
12	Residential Net Lost Revenues	19,612,717	6,294,025	894,901	9,715,212	1,534,156	-	2,310,499	(86,953)	40,274,557
13	Total Residential EE/DSM Revenue Requirement	79,304,216	6,294,025	19,790,092	9,715,212	2,654,647	-	3,018,403	66,216	120,842,811
14	Total Collected for Vintage Year 2018 (through estimated Rider 13)									120,949,591
15	Total Residential EE/DSM Revenue Requirement								\$	(106,780)
See Listebarger Exhibit A for rate										
		2,573,528		17,238	-	(5,588)	-			

## NON-RESIDENTIAL Energy Efficiency Programs

Line	Reference	E-7 Sub 1130	E-7 Sub 1164	E-7 Sub 1192	E-7 Sub 1192	E-7 Sub 1230	E-7 Sub 1230	E-7 Sub 1249	E-7 Sub 1265	Year 2018
		Rider 9 Year 1 Estimate	Year 2018 Yr 2 LR Estimate	Rider 11 True up	Year 2018 Year 3 Estimate	Rider 12 True Up	Year 2018 Yr 4 LR Estimate	Rider 13 True up	Rider 14 True up	
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)		(10,579)	-	14,405,269
18	Return on undercollection of Non-residential EE Program Costs			461,049		592,305		407,815	27,855	1,489,024
19	Total EE Program Cost and Incentive Components	52,216,148		(37,911)		566,910		397,236	27,855	53,170,237
20	Revenue-related taxes and regulatory fees factor	1,001,402		1,001,352		1,001,302		1,001,302	1,001,302	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	52,289,355		(37,962)		567,648		397,753	27,891	53,244,685
22	Non-Residential Net Lost Revenues	5,167,253	8,746,000	2,933,863	9,507,185	(1,090,744)	2,182,027	(2,030,437)	(47,064)	25,378,082
23	Total Non-Residential EE Revenue Requirement	57,456,608	8,746,000	2,895,901	9,507,185	(523,097)	2,182,027	(1,622,684)	(19,173)	78,622,767
24	Total Collected for Vintage Year 2018 (through estimated Rider 13)									78,964,947
25	Non-Residential EE Revenue Requirement									(342,180)
26	Projected NC Residential Sales (kWh)									15,445,061,521
27	NC Non-Residential EE billing factor (Cents/kWh)									(0.0022)

## DSM Programs

Line	Reference	E-7 Sub 1130	E-7 Sub 1192	E-7 Sub 1230	E-7 Sub 1249	E-7 Sub 1265	Year 2018
		Rider 9 Year 1 Estimate	Rider 11 True up	Rider 12 True Up	Rider 13 True up	Rider 14 True up	
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	3,329,626
30	Return on undercollection of Non-residential DSM Program Costs		37,743	76,651	54,598	11,654	180,645
31	Total Non-Residential DSM Program Cost and Incentive Components	15,063,556	921,813	69,454	54,225	12,393	16,121,441
32	Revenue-related taxes and regulatory fees factor	1,001,402	1,001,352	1,001,302	1,001,302	1,001,302	
33	Total Non-Residential DSM Revenue Requirement	15,084,675	923,059	69,544	54,296	12,409	16,143,983
34	Total Collected for Vintage Year 2018 (through estimated Rider 13)						16,206,515
35	Non-Residential EE Revenue Requirement True-up Amount						(62,531)
36	Projected NC Non-Residential Sales (kWh)						16,537,337,560
37	NC Non-Residential DSM billing factor						(0.0004)

\*\* 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 1265  
Estimated Year 4 Lost Revenue and True Up of Year 1 and Year 2 for Vintage Year 2019

## RESIDENTIAL Energy Efficiency Programs

Line	Reference	E-7 Sub 1164	E-7 Sub 1192	E-7 Sub 1230	E-7 Sub 1230	E-7 Sub 1249	E-7 Sub 1249	E-7 Sub 1265	Year 2019
		Rider 10 Year 1 Estimate	Year 2019 Yr 2 LR Estimate	Rider 12 True up	Year 2019 Yr 3 LR Estimate	Rider 13 True up	Year 2020 Yr 4 LR Estimate	Rider 14 True up	
1	Residential EE Program Cost	Evans Exhibit 1 pg. 2, Line 9 * NC Alloc. Factor		\$ 13,243,503		\$ (0)		\$ 0	\$ 54,246,377
2	Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 2, Line 9 * NC Alloc. Factor		3,296,056		(124,962)		90,385	7,063,299
3	Return on undercollection of Residential EE Program Costs	Listebarger Exhibit 3 pg 5		55,738		750,744		511,698	1,318,179
4	Total EE Program Cost and Incentive Components	Line 1 + Line 2 + Line 3		16,595,296		625,782		602,083	62,627,855
5	Residential DSM Program Cost	Evans Exhibit 1 pg. 2, Line 10 + Line 26 * NC Alloc. Factor		(308,751)		(0)		(0)	10,268,601
6	Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 2, Line 10 + Line 26 * NC Alloc. Factor		541,821		0		26,383	3,341,290
7	Return on undercollection of Residential DSM Program Costs	Listebarger Exhibit 3 pg 6		(6,600)		(21,193)		6,578	(21,215)
8	Total DSM Program Cost and Incentive Components	Line 5 + Line 6 + Line 7		226,469		(21,193)		32,961	13,588,676
9	Total EE/DSM Program Cost and Incentive Components	Line 4 + Line 8		16,821,766		604,589		635,045	76,216,531
10	Revenue-related taxes and regulatory fees factor **	Listebarger Exhibit 2, pg. 7		1.001352		1.001302		1.001302	
11	Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 9 * Line 10		16,844,509		605,376		635,871	76,322,421
12	Residential Net Lost Revenues	Evans Exhibit 2 pg 1 - 6	5,519,302	6,704,043	5,292,331	(1,623,869)	2,233,068	236,622	37,144,701
13	Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	5,519,302	23,548,552	5,292,331	(1,018,493)	2,233,068	872,493	113,467,122
14	Total Collected for Vintage Year 2019 (through estimated Rider 13)	Listebarger Exhibit 4, Line 2							112,534,414
15	<b>Total Residential EE/DSM Revenue Requirement</b>	Line 13 - Line 14							\$ 932,709

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 1164	E-7 Sub 1192	E-7 Sub 1230	E-7 Sub 1230	E-7 Sub 1249	E-7 Sub 1249	E-7 Sub 1265	Year 2019
		Rider 10 Year 1 Estimate	Year 2019 Yr 2 LR Estimate	Rider 12 True up	Year 2019 Yr 3 LR Estimate	Rider 13 True up	Year 2020 Yr 4 LR Estimate	Rider 14 True up	
16	Non-Residential EE Program Cost	Evans Exhibit 1 pg. 2, Line 23 * NC Alloc. Factor		(8,698,625)		-		0	32,973,208
17	Non-Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 2, Line 23 * NC Alloc. Factor		1,873,850		759,937		(0)	11,098,417
18	Return on undercollection of Non-residential EE Program Costs	Listebarger Exhibit 3 page 7		(553,659)		(275,034)		(181,099)	(1,009,792)
19	Total EE Program Cost and Incentive Components	Line 16 + Line 17 + Line 18		(7,378,434)		484,904		(181,099)	43,061,833
20	Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 7		1.001352		1.001302		1.001302	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20		(7,388,410)		485,535		(181,335)	43,122,544
22	Non-Residential Net Lost Revenues	Evans Exhibit 2 pg 1 - 6	9,219,870	452,216	10,794,655	(8,183,962)	2,074,187	874,289	20,821,700
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	9,219,870	(6,936,194)	10,794,655	(7,698,427)	2,074,187	692,954	63,944,244
24	Total Collected for Vintage Year 2019 (through estimated Rider 13)	Listebarger Exhibit 4 Line 8							62,905,222
25	Non-Residential EE Revenue Requirement	Line 23 - Line 24							1,039,022
26	Projected NC Residential Sales (kWh)	Listebarger Exhibit 6, Line 6							15,395,466,327
27	<b>NC Non-Residential EE billing factor (Cents/kWh)</b>	Line 25/Line 26*100							<b>0.0067</b>

Note: Only non-residential customer lost revenues earned after the rate case test period have been included.

## DSM Programs

Line	Reference	E-7 Sub 1164	E-7 Sub 1230	E-7 Sub 1249	E-7 Sub 1265	Year 2019
		Rider 10 Year 1 Estimate	Rider 12 True up	Rider 13 True up	Rider 14 True up	
28	Non-Residential DSM Program Cost	Evans Exhibit 1 pg. 2, Line 10 + Line 26 * NC Alloc. Factor	(462,163)	-	(0)	12,076,005
29	Non-Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 2, Line 10 + Line 26 * NC Alloc. Factor	611,215	-	31,027	3,929,399
30	Return on undercollection of Non-residential DSM Program Costs	Listebarger Exhibit 3 page 8	(9,744)	7,619	1,582	(542)
31	Total Non-Residential DSM Program Cost and Incentive Components	Line 28 + Line 29 + Line 30	139,308	7,619	32,609	16,004,862
32	Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 7	1.001352	1.001302	1.001302	
33	Total Non-Residential DSM Revenue Requirement	Line 31 * Line 32	139,497	7,629	32,651	16,027,289
34	Total Collected for Vintage Year 2019 (through estimated Rider 13)	Listebarger Exhibit 4 Line 13				15,970,311
35	Non-Residential EE Revenue Requirement True-up Amount	Line 33 - Line 34				56,978
36	Projected NC Non-Residential Sales (kWh)	Listebarger Exhibit 6, Line 7				16,570,566,722
37	<b>NC Non-Residential DSM billing factor</b>	Line 35/Line 36*100				<b>0.0003</b>

\*\* 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 1265  
Estimated Year 3 Lost Revenue and True Up of Year 1 for Vintage Year 2020

**RESIDENTIAL**  
**Energy Efficiency Programs**

Line	Reference	Year 2020 Yr 4 LR Estimate
1 Residential EE Program Cost	Evans Exhibit 1 pg. 3, Line 9 * NC Alloc. Factor	
2 Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 3, Line 9 * NC Alloc. Factor	
3 Return on undercollection of Residential EE Program Costs	Listebarger Exhibit 3 pg 9	
4 Total EE Program Cost and Incentive Components	Line 1 + Line 2 + Line 3	
5 Residential DSM Program Cost	Evans Exhibit 1 pg. 3, Line 10 + Line 26 * NC Alloc. Factor	
6 Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 3, Line 10 + Line 26 * NC Alloc. Factor	
7 Return on overcollection of Residential DSM Program Costs	Listebarger Exhibit 3 pg 10	
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. 7	
11 Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 9 * Line 10	
12 Residential Net Lost Revenues	Evans Exhibit 2 pg. 1-6	\$ 2,568,275
13 Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	2,568,275
14 Total Collected for Vintage Year 2020 (through estimated Rider 13)	Listebarger Exhibit 4, Line 3	
15 <b>Total Residential EE/DSM Revenue Requirement</b>	Line13 - Line 14	<b>\$ 2,568,275</b>

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	Year 2020
\$ 33,551,578		\$ 4,000,501		\$ -	\$ 37,552,079
3,173,534		1,218,929		90,910	4,483,373
		147,060		453,648	600,708
36,725,112		5,366,490		544,558	42,636,160
12,243,392		(2,355,317)		-	9,888,075
3,189,876		7,301		14,471	3,211,648
		(62,603)		(158,389)	(220,992)
15,433,268		(2,410,619)		(143,918)	12,878,731
52,158,380		2,955,871		400,640	55,514,892
1.001402		1.001302		1.001302	
52,231,506		2,959,720		401,162	55,592,388
14,667,095	4,495,479	6,588,261	5,386,818	609,516	31,747,169
66,898,602	4,495,479	9,547,981	5,386,818	1,010,678	87,339,557
					86,380,883
					<b>\$ 958,673</b>

See Listebarger Exhibit A for rate

**NON-RESIDENTIAL**  
**Energy Efficiency Programs**

Line	Reference	Year 2020 Yr 4 LR Estimate
16 Non- Residential EE Program Cost	Evans Exhibit 1 pg. 3, Line 23 * NC Alloc. Factor	
17 Non-Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 3, Line 23 * NC Alloc. Factor	
18 Return on overcollection of Non-residential EE Program Costs	Listebarger Exhibit 3 page 11	
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. 7	
21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20	
22 Non-Residential Net Lost Revenues	Evans Exhibit 2 pg. 1 - 6	3,845,961
23 Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	3,845,961
24 Total Collected for Vintage Year 2020 (through estimated Rider 13)	Listebarger Exhibit 4 Line 9	
25 Non-Residential EE Revenue Requirement	Line 23 - Line 24	3,845,961
26 Projected NC Residential Sales (kWh)	Listebarger Exhibit 6, Line 8	14,831,584,100
27 <b>NC Non-Residential EE billing factor (Cents/kWh)</b>	Line 25/Line 26*100	<b>0.0259</b>

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	Year 2020
37,708,077		(15,681,234)		-	22,026,843
10,010,194		(2,909,256)		98,425	7,199,363
		(324,916)		(586,906)	(911,822)
47,718,271		(18,915,406)		(488,481)	28,314,384
1.001402		1.001302		1.001302	
47,785,172		(18,940,034)		(489,117)	28,356,021
5,183,193	9,376,721	(4,169,004)	6,802,676	1,081,898	18,275,484
52,968,365	9,376,721	(23,109,038)	6,802,676	592,781	46,631,505
					46,624,089
					7,416
					14,831,584,100
					<b>0.0001</b>

**DSM Programs**

Line	Reference	Year 2020 Yr 4 LR Estimate
28 Non-Residential DSM Program Cost	Evans Exhibit 1 pg. 3, Line 10 + Line 26 * NC Alloc. Factor	
29 Non-Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 3, Line 10 + Line 26 * NC Alloc. Factor	
30 Return on overcollection of Non-residential DSM Program Costs	Listebarger Exhibit 3 page 12	
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. 7	
33 Total Non-Residential DSM Revenue Requirement	Line 31 * Line 32	
34 Total Collected for Vintage Year 2020 (through estimated Rider 13)	Listebarger Exhibit 4 Line 14	
35 Non-Residential EE Revenue Requirement True-up Amount	Line 33- Line 34	
36 Projected NC Non-Residential Sales (kWh)	Listebarger Exhibit 6, Line 9	
37 <b>NC Non-Residential DSM billing factor</b>	Line 35/Line 36*100	

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	Year 2020
15,789,462	(3,918,078)	-	11,871,383
4,113,764	(275,311)	17,373	3,855,826
-	(63,113)	28,202	(34,911)
19,903,226	(4,256,502)	45,575	15,692,299
1.001402	1.001302	1.001302	
19,931,130	(4,262,044)	45,634	15,714,720
			15,714,929
			(209)
			16,609,571,340
			-

\*\* 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 1265  
Estimated Year 3 Lost Revenue and True Up of Year 1 for Vintage Year 2021**RESIDENTIAL**  
**Energy Efficiency Programs**

Line	Reference	Year 2021 Yr 3 LR Estimate
1 Residential EE Program Cost	Evans Exhibit 1 pg. 4, Line 9 * NC Alloc. Factor	
2 Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 4, Line 9 * NC Alloc. Factor	
3 Return on undercollection of Residential EE Program Costs	Listebarger Exhibit 3 pg 13	
4 Total EE Program Cost and Incentive Components	Line 1 + Line 2 + Line 3	
5 Residential DSM Program Cost	Evans Exhibit 1 pg. 4, Line 10 + Line 26 * NC Alloc. Factor	
6 Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 4, Line 10 + Line 26 * NC Alloc. Factor	
7 Return on overcollection of Residential DSM Program Costs	Listebarger Exhibit 3 pg 14	
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. 7	
11 Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 9 * Line 10	
12 Residential Net Lost Revenues	Evans Exhibit 2 pg. 1-6	\$ 3,959,003
13 Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	3,959,003
14 Total Collected for Vintage Year 2021 (through estimated Rider 13)	Listebarger Exhibit 4, Line 4	
15 <b>Total Residential EE/DSM Revenue Requirement</b>	Line13 - Line 14	<b>\$ 3,959,003</b>

E-7 Sub 1230	E-7 Sub 1249	E-7 Sub 1265	
Rider 12 Year 1 Estimate	Year 2021 Yr 2 LR Estimate	Rider 14 True up	Year 2021
\$ 37,155,471		\$ (10,923,999)	\$ 26,231,472
2,774,995		(244,088)	2,530,907
		(427,153)	(427,153)
39,930,466		(11,595,240)	28,335,226
13,699,485		(2,210,071)	11,489,414
3,521,313		(751,140)	2,770,173
		(105,961)	(105,961)
17,220,797		(3,067,171)	14,153,626
57,151,264		(14,662,411)	42,488,852
1,001302		1,001302	
57,225,674		(14,681,502)	42,544,173
25,205,298	6,249,665	(8,091,427)	23,363,537
82,430,974	6,249,665	(22,772,928)	65,907,710
			88,242,571
			<b>\$ (22,334,861)</b>

See Listebarger Exhibit A for rate

**NON-RESIDENTIAL**  
**Energy Efficiency Programs**

	Reference	Year 2021 Yr 3 LR Estimate
16 Non- Residential EE Program Cost	Evans Exhibit 1 pg. 4, Line 23 * NC Alloc. Factor	
17 Non-Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 4, Line 23 * NC Alloc. Factor	
18 Return on overcollection of Non-residential EE Program Costs	Listebarger Exhibit 3 page 15	
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. 7	
21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20	
22 Non-Residential Net Lost Revenues	Evans Exhibit 2 pg. 1-6	10,003,040
23 Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	10,003,040
24 Total Collected for Vintage Year 2021 (through estimated Rider 13)	Listebarger Exhibit 4 Line 10	
25 Non-Residential EE Revenue Requirement	Line 23 - Line 24	10,003,040
26 Projected NC Residential Sales (kWh)	Listebarger Exhibit 6, Line 10	14,903,909,177
27 <b>NC Non-Residential EE billing factor (Cents/kWh)</b>	Line 25/Line 26*100	<b>0.0673</b>

E-7 Sub 1230	E-7 Sub 1249	E-7 Sub 1265	
Rider 12 Year 1 Estimate	Year 2021 Yr 2 LR Estimate	Rider 14 True up	Year 2021
38,264,959		(8,510,352)	29,754,607
8,888,527		(1,494,004)	7,394,523
		(580,644)	(580,644)
47,153,486		(10,585,000)	36,568,486
1,001302		1,001302	
47,214,880		(10,598,782)	36,616,098
6,360,715	13,494,665	(4,819,745)	15,035,634
53,575,595	13,494,665	(15,418,527)	51,651,733
			64,059,539
			(12,407,806)
			14,903,909,177
			<b>(0.0833)</b>

**DSM Programs**

	Reference	
28 Non-Residential DSM Program Cost	Evans Exhibit 1 pg. 4, Line 10 + Line 26 * NC Alloc. Factor	
29 Non-Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 4, Line 10 + Line 26 * NC Alloc. Factor	
30 Return on overcollection of Non-residential DSM Program Costs	Listebarger Exhibit 3 page 16	
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. 7	
33 Total Non-Residential DSM Revenue Requirement	Line 31 * Line 32	
34 Total Collected for Vintage Year 2020 (through estimated Rider 13)	Listebarger Exhibit 4 Line 15	
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 <b>NC Non-Residential DSM billing factor</b>	Line 35/Line 36*100	

E-7 Sub 1230		E-7 Sub 1265	
Rider 12 Year 1 Estimate		Rider 14 True up	Year 2021
16,110,767		(3,154,656)	12,956,111
4,141,109		(1,017,305)	3,123,804
-		(77,597)	(77,597)
20,251,876		(4,249,558)	16,002,318
1,001302		1,001302	
20,278,244		(4,255,091)	16,023,153
			18,905,431
			(2,882,278)
			16,646,430,078
			<b>(0.0173)</b>

\*\* 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 1265  
Estimated Year 2 Lost Revenues for Vintage Year 2022

## RESIDENTIAL

Line	Reference	2022
1 Residential Net Lost Revenues	Evans Exhibit 2 pg 1 - 6	6,791,458
2 Projected NC Residential Sales (kWh)	Listebarger Exhibit 6, Line 1	\$ 22,809,393,337
3 NC Residential EE Billing Factor (Cents/kWh)	Line 1/Line 2*100	0.0298

## NON-RESIDENTIAL Energy Efficiency Programs

	Reference	2022
4 Non-Residential Net Lost Revenues	Evans Exhibit 2 pg 1 - 6	15,132,477
5 Projected NC Non-Residential Sales (kWh)	Listebarger Exhibit 6, Line 12	15,209,154,609
6 NC Non-Residential EE billing factor (Cents/kWh)	Line 4/Line 5*100	0.0995

Duke Energy Carolinas, LLC  
Docket Number E-7 Sub 1265  
Estimated Program Costs, Earned Incentive and Lost Revenues for Vintage Year 2023

## RESIDENTIAL

Line	Reference	2023
1 Residential EE Program Cost	Evans Exhibit 1, pg. 5, Line 10 * NC Alloc. Factor	\$ 43,514,258
2 Residential EE Earned Utility Incentive	Evans Exhibit 1, pg. 5, Line 10	5,293,270
3 Total EE Program Cost and Incentive Components	Line 1 + Line 2	48,807,528
4 Residential DSM Program Cost	Evans Exhibit 1 pg. 5, Line 11 + Line 26 * NC Alloc. Factor	12,159,515
5 Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 5, Line 11 + Line 26 * NC Alloc. Factor	2,371,105
6 Total DSM Program Cost and Incentive Components	Line 4 + Line 5	14,530,620
7 Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6	63,338,148
8 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 7	1.001302
9 Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 7 * Line 8	63,420,614
10 Residential Net Lost Revenues	Evans Exhibit 2 pg 1 - 6	21,146,502
11 <b>Total Residential EE Revenue Requirement</b>	<b>Line 9 + Line 10</b>	<b>\$ 84,567,117</b>

See Listebarger  
Exhibit 1 for rate

## NON-RESIDENTIAL Energy Efficiency Programs

	Reference	2023
12 Non- Residential EE Program Cost	Evans Exhibit 1, pg. 5, Line 24 * NC Alloc. Factor	\$ 45,838,354
13 Non-Residential EE Earned Utility Incentive	Evans Exhibit 1, pg. 5, Line 24	12,167,415
14 Total EE Program Cost and Incentive Components	Line 12 + Line 13	58,005,769
15 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 7	1.001302
16 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 14 * Line 15	58,081,293
17 Non-Residential Net Lost Revenues	Evans Exhibit 2 pg 1 - 6	7,667,494
18 Total Non-Residential EE Revenue Requirement	Line 16 + Line 17	\$ 65,748,787
19 Projected NC Residential Sales (kWh)	Listebarger Exhibit 6, Line 14	15,209,154,609
20 <b>NC Non-Residential EE billing factor (Cents/kWh)</b>	<b>Line 18/Line 19*100</b>	<b>0.4323</b>

## DSM Programs

		2023
21 Non-Residential DSM Program Cost	Evans Exhibit 1 pg. 5, Line 11 + Line 26 * NC Alloc. Factor	\$ 13,711,755
22 Non-Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 5, Line 11 + Line 26 * NC Alloc. Factor	2,673,792
23 Total Non-Residential DSM Program Cost and Incentive Components	Line 21 + Line 22	16,385,547
24 Revenue-related taxes and regulatory fees factor	Listebarger Exhibit 2, pg. 7	1.001302
25 Total Non-Residential DSM Revenue Requirement	Line 23 * Line 24	16,406,881
26 Projected NC Non-Residential Sales (kWh)	Listebarger Exhibit 6, Line 15	16,907,663,645
27 <b>NC Non-Residential DSM billing factor</b>	<b>Line 25/Line 26*100</b>	<b>0.0970</b>

**Duke Energy Carolinas, LLC**  
**Docket Number E-7 Sub 1265**  
**Gross Receipts Tax Years 2018 through estimated 2022**

	<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		1.001302
Rider 14	2023		1.001302

Note: the current rate is used as the estimate for 2022 and 2023. This will be subject to true-up based on actual rates in effect.

Duke Energy Carolinas, LLC  
Docket Number E-7 Sub 1265  
Estimated Return Calculation - Residential EE Programs Vintage 2018

		Residential EE Program Costs		NC Allocated EE Program Costs	NC Residential Revenue Collected	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
NC Residential EE		Incurred	NC Allocation %					
Listebarger Exhibit 5 pg. 1, Line 4						see calc. at right		
Beginning Balance		77,331,818		56,230,324	96,550,755			(54,997)
2021	January		72.7130507%	-	162,555	1.6199%	(2,633)	(2,633)
2021	February		72.7130507%	-	311,915	1.6199%	(5,053)	(5,053)
2021	March		72.7130507%	-	304,265	1.6199%	(4,929)	(4,929)
2021	April		72.7130507%	-	241,514	1.6199%	(3,912)	(3,912)
2021	May		72.7130507%	-	196,271	1.6199%	(3,179)	(3,179)
2021	June		72.7130507%	-	270,416	1.6199%	(4,381)	(4,381)
2021	July		72.7130507%	-	327,081	1.6199%	(5,298)	(5,298)
2021	August		72.7130507%	-	337,132	1.6199%	(5,461)	(5,461)
2021	September		72.7130507%	-	324,456	1.6199%	(5,256)	(5,256)
2021	October		72.7130507%	-	225,806	1.6199%	(3,658)	(3,658)
2021	November		72.7130507%	-	207,102	1.6199%	(3,355)	(3,355)
2021	December		72.7130507%	-	597,245	1.6199%	(9,675)	(9,675)
		77,331,818		56,230,324	100,056,516		(56,790)	(111,787)

Program Costs to be Recovered in Rider 12	(54,997)
Revenues to be Collected in Rider 12	3,395,034
% Revenue related to Program Costs	1.6199%

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
	1/2021 - 12/2021					6.56%			0.766497	
<b>Beginning Balance</b>	(54,997)			(12,842)	(42,155)					
2021 January	(57,630)	0.233503	(615)	(13,457)	(44,173)	0.005469	(236)	(236)	0.766497	(308)
2021 February	(62,683)	0.233503	(1,180)	(14,637)	(48,046)	0.005469	(252)	(488)	0.766497	(637)
2021 March	(67,612)	0.233503	(1,151)	(15,788)	(51,824)	0.005469	(273)	(761)	0.766497	(993)
2021 April	(71,524)	0.233503	(914)	(16,701)	(54,823)	0.005469	(292)	(1,053)	0.766497	(1,374)
2021 May	(74,703)	0.233503	(742)	(17,443)	(57,260)	0.005469	(307)	(1,359)	0.766497	(1,774)
2021 June	(79,084)	0.233503	(1,023)	(18,466)	(60,618)	0.005469	(322)	(1,682)	0.766497	(2,194)
2021 July	(84,382)	0.233503	(1,237)	(19,704)	(64,679)	0.005469	(343)	(2,024)	0.766497	(2,641)
2021 August	(89,844)	0.233503	(1,275)	(20,979)	(68,865)	0.005469	(365)	(2,390)	0.766497	(3,118)
2021 September	(95,100)	0.233503	(1,227)	(22,206)	(72,894)	0.005469	(388)	(2,777)	0.766497	(3,623)
2021 October	(98,757)	0.233503	(854)	(23,060)	(75,697)	0.005469	(406)	(3,184)	0.766497	(4,154)
2021 November	(102,112)	0.233503	(783)	(23,844)	(78,269)	0.005469	(421)	(3,605)	0.766497	(4,703)
2021 December	(111,787)	0.233503	(2,259)	(26,103)	(85,685)	0.005469	(448)	(4,053)	0.766497	(5,288)
Checks			(13,261)	(13,261)	(26,103)		(4,053)			(5,288)

Note 1: Amounts represent all revenue actually collected through 2021.

Note 2: Cells in Blue: Beginning Balances have been added in row 32. The cumulative deferred income tax column has been updated so the calculation includes the beginning balance. Formula was also corrected for cell I33 as the original formula was pulling a blank cell.

**Duke Energy Carolinas, LLC**  
**Docket Number E-7 Sub 1265**  
**Estimated Return Calculation - Residential DSM Programs Vintage 2018**

NC Residential DSM	Residential DSM Program Costs	NC Allocated DSM Program Costs	NC Residential Revenue Collected	NC Residential DSM Program Collection %	DSM Program Costs Revenue Collected	(Over)/Under Collection
	Incurred	NC Allocation %				
Listebarger Exhibit 5 pg. 1, Line 9						
			see calc. at right			
<b>Beginning Balance</b>	30,409,405		9,778,896	12,353,711	(9,778,182)	713
2021 January		32.1574721%	-	(35,889)	0.0951%	34
2021 February		32.1574721%	-	(68,864)	0.0951%	65
2021 March		32.1574721%	-	(67,175)	0.0951%	64
2021 April		32.1574721%	-	(53,321)	0.0951%	51
2021 May		32.1574721%	-	(43,333)	0.0951%	41
2021 June		32.1574721%	-	(59,702)	0.0951%	57
2021 July		32.1574721%	-	(72,213)	0.0951%	69
2021 August		32.1574721%	-	(74,432)	0.0951%	71
2021 September		32.1574721%	-	(71,633)	0.0951%	68
2021 October		32.1574721%	-	(49,853)	0.0951%	47
2021 November		32.1574721%	-	(45,724)	0.0951%	43
2021 December		32.1574721%	-	(44,915)	0.0951%	43
	30,409,405		9,778,896	11,666,717	(9,777,529)	1,366

Program Costs to be Recovered in Rider 12	713
Revenues to be Collected in Rider 12	(749,324)
% Revenue related to Program Costs	0.0951%

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
		1/2021 - 12/2021				6.56%			0.766497	
<b>Beginning Balance</b>	713			166	546					
2021 January	747	0.233503	8	174	572	0.005469	3	3	0.766497	4
2021 February	812	0.233503	15	190	623	0.005469	3	6	0.766497	8
2021 March	876	0.233503	15	205	671	0.005469	4	10	0.766497	13
2021 April	927	0.233503	12	216	710	0.005469	4	14	0.766497	18
2021 May	968	0.233503	10	226	742	0.005469	4	18	0.766497	23
2021 June	1,025	0.233503	13	239	785	0.005469	4	22	0.766497	28
2021 July	1,093	0.233503	16	255	838	0.005469	4	26	0.766497	34
2021 August	1,164	0.233503	17	272	892	0.005469	5	31	0.766497	40
2021 September	1,232	0.233503	16	288	945	0.005469	5	36	0.766497	47
2021 October	1,280	0.233503	11	299	981	0.005469	5	41	0.766497	54
2021 November	1,323	0.233503	10	309	1,014	0.005469	5	47	0.766497	61
2021 December	1,366	0.233503	10	319	1,047	0.005469	6	52	0.766497	68
Checks			153	153	319		52			68

Note 1: Amounts represent all revenue actually collected through 2021.

Note 2: Cells in Blue: Beginning Balances have been added in row 32. The cumulative deferred income tax column has been updated so the calculation includes the beginning balance. Formula was also corrected for cell I33 as the original formula was pulling a blank cell.



Duke Energy Carolinas, LLC  
Docket Number E-7 Sub 1265  
Estimated Return Calculation - Non- Residential EE Programs Vintage 2018

NC Non- Residential EE	Non-Residential EE Program Costs		NC Allocated EE Program Costs	NC Residential Revenue Collected	NC Non- Residential EE Program Collection %	Non-Residential EE Program Costs Revenue Collected	(Over)/Under Collection
	Incurred	NC Allocation %					
	Listebarger Exhibit 5, pg 1, Line 4				See calc. at right		
<b>Beginning Balance</b>	51,264,448		37,275,944	64,192,958		20,546,481	1,342,401
2021 January		72.7130507%	-	376,128	96.0330337%	(361,207)	(361,206)
2021 February		72.7130507%	-	139,345	96.0330337%	(133,817)	(133,817)
2021 March		72.7130507%	-	104,126	96.0330337%	(99,995)	(99,995)
2021 April		72.7130507%	-	102,159	96.0330337%	(98,106)	(98,106)
2021 May		72.7130507%	-	94,315	96.0330337%	(90,573)	(90,573)
2021 June		72.7130507%	-	118,155	96.0330337%	(113,468)	(113,468)
2021 July		72.7130507%	-	135,313	96.0330337%	(129,945)	(129,945)
2021 August		72.7130507%	-	131,110	96.0330337%	(125,908)	(125,908)
2021 September		72.7130507%	-	143,390	96.0330337%	(137,702)	(137,702)
2021 October		72.7130507%	-	114,526	96.0330337%	(109,983)	(109,983)
2021 November		72.7130507%	-	99,907	96.0330337%	(95,944)	(95,944)
2021 December		72.7130507%	-	154,161	96.0330337%	(148,046)	(148,046)
	51,264,448		37,275,944	65,905,594		18,901,785	(302,294)

Program Costs to be Recovered in Rider 12 1,342,401  
Revenues to be Collected in Rider 12 1,397,854

% Revenue to be assigned to Program Costs 96.03%

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
		1/2021 - 12/2021						6.56%	0.766497		
Beginning Balance		1,342,401			313,455	1,028,946					
2021	January	981,195	0.233503	(84,343)	229,112	752,083	0.005469	4,870	4,870	0.766497	6,354
2021	February	847,377	0.233503	(31,247)	197,865	649,512	0.005469	3,833	8,703	0.766497	11,354
2021	March	747,382	0.233503	(23,349)	174,516	572,866	0.005469	3,343	12,046	0.766497	15,715
2021	April	649,276	0.233503	(22,908)	151,608	497,668	0.005469	2,927	14,973	0.766497	19,535
2021	May	558,703	0.233503	(21,149)	130,459	428,244	0.005469	2,532	17,505	0.766497	22,838
2021	June	445,234	0.233503	(26,495)	103,964	341,271	0.005469	2,104	19,610	0.766497	25,583
2021	July	315,289	0.233503	(30,343)	73,621	241,668	0.005469	1,594	21,204	0.766497	27,663
2021	August	189,381	0.233503	(29,400)	44,221	145,160	0.005469	1,058	22,262	0.766497	29,043
2021	September	51,679	0.233503	(32,154)	12,067	39,611	0.005469	505	22,767	0.766497	29,702
2021	October	(58,304)	0.233503	(25,681)	(13,614)	(44,690)	0.005469	(14)	22,753	0.766497	29,684
2021	November	(154,248)	0.233503	(22,403)	(36,017)	(118,231)	0.005469	(446)	22,307	0.766497	29,103
2021	December	(302,294)	0.233503	(34,569)	(70,587)	(231,707)	0.005469	(957)	21,350	0.766497	27,855
Checks				(384,041)	(384,041)	(70,587)		21,350			27,855

Note 1: Amounts represent all revenue actually collected through 2021.

Note 2: Cells in Blue: Beginning Balances have been added in row 34. The cumulative deferred income tax column has been updated so the calculation includes the beginning balance. Formula was also corrected for cell I33 as the original formula was pulling a blank cell.

Duke Energy Carolinas, LLC  
Docket Number E-7 Sub 1265  
Estimated Return Calculation -Non - Residential DSM Programs Vintage 2018

NC Non- Residential DSM	Total System NC DSM Program	NC Non- Residential DSM Allocation %	NC Allocated DSM Non- Residential Program	NC Non-Residential DSM Revenue Collected	NC Non- Residential DSM Program Collection %	Non-Residential DSM Program Costs Revenue Collected	(Over)/Under Collection
	Costs Incurred		Costs				
See Listebarger Exhibit 5 pg. 1, Line 10							
Beginning Balance	30,409,405	41.4712829%	12,611,170	1,218,346		(12,466,415)	144,755
2021 January	-	41.4712829%	-	33,936	-59.5662739%	20,214	(20,214)
2021 February	-	41.4712829%	-	(10,867)	-59.5662739%	(6,473)	6,473
2021 March	-	41.4712829%	-	(17,268)	-59.5662739%	(10,286)	10,286
2021 April	-	41.4712829%	-	(16,980)	-59.5662739%	(10,115)	10,115
2021 May	-	41.4712829%	-	(15,445)	-59.5662739%	(9,200)	9,200
2021 June	-	41.4712829%	-	(19,453)	-59.5662739%	(11,587)	11,587
2021 July	-	41.4712829%	-	(22,697)	-59.5662739%	(13,520)	13,520
2021 August	-	41.4712829%	-	(22,169)	-59.5662739%	(13,205)	13,205
2021 September	-	41.4712829%	-	(23,209)	-59.5662739%	(13,825)	13,825
2021 October	-	41.4712829%	-	(17,763)	-59.5662739%	(10,580)	10,580
2021 November	-	41.4712829%	-	(18,286)	-59.5662739%	(10,892)	10,892
2021 December	-	41.4712829%	-	(17,874)	-59.5662739%	(10,647)	10,647
	30,409,405		12,611,170	1,050,271		(12,566,531)	244,871

Program Costs to be Recovered in Rider 12 144,755  
Revenues to be Collected in Rider 12 (243,015)

% Revenue to be assigned to Program Costs -59.57%

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
	1/2021 - 12/2021					6.56%			0.766497	
Beginning Balance	144,755			33,801	110,954					
2021 January	124,541	0.233503	(4,720)	29,081	95,460	0.005469	564	564	0.766497	736
2021 February	131,014	0.233503	1,512	30,592	100,422	0.005469	536	1,100	0.766497	1,435
2021 March	141,300	0.233503	2,402	32,994	108,306	0.005469	571	1,671	0.766497	2,180
2021 April	151,414	0.233503	2,362	35,356	116,059	0.005469	614	2,284	0.766497	2,980
2021 May	160,614	0.233503	2,148	37,504	123,110	0.005469	654	2,938	0.766497	3,834
2021 June	172,201	0.233503	2,706	40,210	131,992	0.005469	698	3,636	0.766497	4,744
2021 July	185,721	0.233503	3,157	43,366	142,355	0.005469	750	4,386	0.766497	5,723
2021 August	198,926	0.233503	3,083	46,450	152,476	0.005469	806	5,193	0.766497	6,774
2021 September	212,751	0.233503	3,228	49,678	163,073	0.005469	863	6,055	0.766497	7,900
2021 October	223,332	0.233503	2,471	52,149	171,183	0.005469	914	6,969	0.766497	9,093
2021 November	234,224	0.233503	2,543	54,692	179,532	0.005469	959	7,929	0.766497	10,344
2021 December	244,871	0.233503	2,486	57,178	187,693	0.005469	1,004	8,933	0.766497	11,654
Checks			23,377	23,377	57,178		8,933			11,654

Note 1: Amounts represent all revenue actually collected through 2021.

Note 2: Cells in Blue: Beginning Balances have been added in row 29. The cumulative deferred income tax column has been updated so the calculation includes the beginning balance. Formula was also corrected for cell I33 as the original formula was pulling a blank cell.

Duke Energy Carolinas, LLC  
Docket Number E-7 Sub 1265  
Estimated Return Calculation - Residential EE Programs Vintage 2019

		Residential EE Program Costs		NC Allocated EE Program Costs	NC Residential Revenue Collected	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
NC Residential EE		Incurred	NC Allocation %					
Listebarger Exhibit 5 pg. 2, Line 4								
						see calc. at right		
Beginning Balance		74,218,205		54,246,377	63,652,577		(39,726,803)	14,519,574
2021	January		73.0903918%	-	1,381,718	50.2421%	(694,204)	(694,204)
2021	February		73.0903918%	-	2,651,280	50.2421%	(1,332,058)	(1,332,058)
2021	March		73.0903918%	-	2,586,255	50.2421%	(1,299,389)	(1,299,389)
2021	April		73.0903918%	-	2,052,872	50.2421%	(1,031,406)	(1,031,406)
2021	May		73.0903918%	-	1,668,307	50.2421%	(838,192)	(838,192)
2021	June		73.0903918%	-	2,298,538	50.2421%	(1,154,834)	(1,154,834)
2021	July		73.0903918%	-	2,780,192	50.2421%	(1,396,827)	(1,396,827)
2021	August		73.0903918%	-	2,865,623	50.2421%	(1,439,749)	(1,439,749)
2021	September		73.0903918%	-	2,757,880	50.2421%	(1,385,617)	(1,385,617)
2021	October		73.0903918%	-	1,919,352	50.2421%	(964,323)	(964,323)
2021	November		73.0903918%	-	1,760,369	50.2421%	(884,446)	(884,446)
2021	December		73.0903918%	-	4,187,905	50.2421%	(2,104,091)	(2,104,091)
		74,218,205		54,246,377	92,562,868		(54,251,938)	(5,561)

Program Costs to be Recovered in Rider 12	14,519,574
Revenues to be Collected in Rider 12	28,899,221
% Revenue related to Program Costs	50.2421%

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
	1/2021 - 12/2021					6.56%			0.766497	
<b>Beginning Balance</b>	14,519,574			3,390,364	11,129,210					
2021 January	13,825,370	0.233503	(162,099)	3,228,265	10,597,105	0.005469	59,413	59,413	0.766497	77,512
2021 February	12,493,311	0.233503	(311,040)	2,917,226	9,576,086	0.005469	55,165	114,578	0.766497	149,483
2021 March	11,193,923	0.233503	(303,411)	2,613,815	8,580,108	0.005469	49,650	164,228	0.766497	214,257
2021 April	10,162,517	0.233503	(240,836)	2,372,978	7,789,539	0.005469	44,764	208,992	0.766497	272,658
2021 May	9,324,325	0.233503	(195,720)	2,177,258	7,147,067	0.005469	40,845	249,837	0.766497	325,947
2021 June	8,169,491	0.233503	(269,657)	1,907,601	6,261,890	0.005469	36,668	286,505	0.766497	373,785
2021 July	6,772,664	0.233503	(326,163)	1,581,437	5,191,227	0.005469	31,320	317,825	0.766497	414,646
2021 August	5,332,915	0.233503	(336,186)	1,245,252	4,087,664	0.005469	25,374	343,199	0.766497	447,750
2021 September	3,947,299	0.233503	(323,546)	921,706	3,025,593	0.005469	19,452	362,651	0.766497	473,127
2021 October	2,982,976	0.233503	(225,172)	696,534	2,286,442	0.005469	14,526	377,177	0.766497	492,079
2021 November	2,098,530	0.233503	(206,521)	490,013	1,608,517	0.005469	10,651	387,828	0.766497	505,975
2021 December	(5,561)	0.233503	(491,312)	(1,299)	(4,263)	0.005469	4,387	392,215	0.766497	511,698
Checks			(3,391,663)	(3,391,663)	(1,299)		392,215			511,698

Note 1: Amounts represent all revenue actually collected through 2021.

Note 2: Error found in cell D13. The link was pulling 2018 rate. Update had no impact on calculation.

**Duke Energy Carolinas, LLC**  
**Docket Number E-7 Sub 1265**  
**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		
<b>Beginning Balance</b>	30,097,219		10,268,600	13,367,259		(10,090,987)	177,614
2021 January		34.1181040%		10,556	77.7199%	(8,204)	(8,204)
2021 February		34.1181040%	-	20,254	77.7199%	(15,742)	(15,742)
2021 March		34.1181040%	-	19,757	77.7199%	(15,355)	(15,355)
2021 April		34.1181040%	-	15,683	77.7199%	(12,189)	(12,189)
2021 May		34.1181040%	-	12,745	77.7199%	(9,905)	(9,905)
2021 June		34.1181040%	-	17,559	77.7199%	(13,647)	(13,647)
2021 July		34.1181040%	-	21,239	77.7199%	(16,507)	(16,507)
2021 August		34.1181040%	-	21,892	77.7199%	(17,014)	(17,014)
2021 September		34.1181040%	-	21,069	77.7199%	(16,374)	(16,374)
2021 October		34.1181040%	-	14,663	77.7199%	(11,396)	(11,396)
2021 November		34.1181040%	-	13,448	77.7199%	(10,452)	(10,452)
2021 December		34.1181040%	-	(31,620)	77.7199%	24,575	24,575
	30,097,219		10,268,600	13,524,504		(10,213,197)	55,403

Program Costs to be Recovered in Rider 12	177,614
Revenues to be Collected in Rider 12	228,531
% Revenue related to Program Costs	77.7199%

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
		1/2021 - 12/2021				6.56%			0.766497	
Beginning Balance	177,614			41,473	136,140					
2021 January	169,410	0.233503	(1,916)	39,558	129,852	0.005469	727	727	0.766497	949
2021 February	153,668	0.233503	(3,676)	35,882	117,786	0.005469	677	1,405	0.766497	1,832
2021 March	138,313	0.233503	(3,586)	32,296	106,016	0.005469	612	2,017	0.766497	2,631
2021 April	126,124	0.233503	(2,846)	29,450	96,674	0.005469	554	2,571	0.766497	3,354
2021 May	116,219	0.233503	(2,313)	27,137	89,081	0.005469	508	3,079	0.766497	4,017
2021 June	102,572	0.233503	(3,187)	23,951	78,621	0.005469	459	3,537	0.766497	4,615
2021 July	86,065	0.233503	(3,854)	20,096	65,968	0.005469	395	3,933	0.766497	5,131
2021 August	69,051	0.233503	(3,973)	16,124	52,927	0.005469	325	4,258	0.766497	5,555
2021 September	52,676	0.233503	(3,823)	12,300	40,376	0.005469	255	4,513	0.766497	5,888
2021 October	41,280	0.233503	(2,661)	9,639	31,641	0.005469	197	4,710	0.766497	6,145
2021 November	30,828	0.233503	(2,441)	7,199	23,630	0.005469	151	4,861	0.766497	6,342
2021 December	55,403	0.233503	5,738	12,937	42,466	0.005469	181	5,042	0.766497	6,578
Checks			(28,537)	(28,537)	12,937		5,042			6,578

Note 1: Amounts represent all revenue actually collected through 2021.

Note 2: Cells in Blue: Beginning Balance has been added in cell C32. Cell E33 was pulling the wrong cell so formula has been updated, the cumulative deferred income tax was therefore impacted as well.

Duke Energy Carolinas, LLC  
Docket Number E-7 Sub 1265  
Estimated Return Calculation - Non-Residential EE Programs Vintage 2019

NC Non-Residential EE	Non-Residential EE Program Costs		NC Allocated EE Program Costs	Program Performance Incentives	Lost Revenues	Total Costs	NC Residential Revenue Collected	NC Non-Residential EE Program Collection %	Non-Residential EE Program Costs		(Over)/Under Collection
	Incurred	NC Allocation %							Revenue Collected	Revenue Collected	
	Listebarger Exhibit 5, pg 2, Line 4							100% used due to overcollection			
Beginning Balance	45,112,919		32,973,209	10,338,479	14,874,342	58,186,030	61,095,561		(61,095,561)		(2,909,531)
2021 January		73.0903918%		63,328	495,613	558,941	286,260	100.00%	(286,260)		272,682
2021 February		73.0903918%		63,328	495,613	558,941	529,758	100.00%	(529,758)		29,183
2021 March		73.0903918%		63,328	495,613	558,941	539,266	100.00%	(539,266)		19,676
2021 April		73.0903918%		63,328	495,613	558,941	532,898	100.00%	(532,898)		26,043
2021 May		73.0903918%		63,328	495,613	558,941	495,950	100.00%	(495,950)		62,992
2021 June		73.0903918%		63,328	495,613	558,941	616,582	100.00%	(616,582)		(57,640)
2021 July		73.0903918%		63,328	495,613	558,941	708,170	100.00%	(708,170)		(149,229)
2021 August		73.0903918%		63,328	495,613	558,941	684,592	100.00%	(684,592)		(125,650)
2021 September		73.0903918%		63,328	495,613	558,941	747,597	100.00%	(747,597)		(188,656)
2021 October		73.0903918%		63,328	495,613	558,941	601,473	100.00%	(601,473)		(42,521)
2021 November		73.0903918%		63,328	495,613	558,941	522,512	100.00%	(522,512)		36,429
2021 December		73.0903918%		63,328	495,613	558,941	655,807	100.00%	(655,807)		(96,866)
	45,112,919		32,973,209	11,098,417	20,821,700	64,893,326	68,016,425		(68,016,425)		(3,123,099)

Since Rider 13 was overcollected, interest has continued to be calculated on the entire balance. Lost revenues earned in 2021 were applied to the outstanding balance and all revenues collected in 2021 were also applied to the outstanding 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
	1/2021 - 12/2021					6.56%			0.766497	
Beginning Balance	(2,909,531)			(679,384)	(2,230,146)					
2021 January	(2,636,849)	0.233503	63,672	(615,712)	(2,021,137)	0.005469	(11,626)	(11,626)	0.766497	(15,167)
2021 February	(2,607,666)	0.233503	6,814	(608,898)	(1,998,768)	0.005469	(10,993)	(22,618)	0.766497	(29,509)
2021 March	(2,587,990)	0.233503	4,594	(604,303)	(1,983,687)	0.005469	(10,890)	(33,509)	0.766497	(43,717)
2021 April	(2,561,947)	0.233503	6,081	(598,222)	(1,963,725)	0.005469	(10,795)	(44,303)	0.766497	(57,800)
2021 May	(2,498,955)	0.233503	14,709	(583,514)	(1,915,442)	0.005469	(10,608)	(54,911)	0.766497	(71,639)
2021 June	(2,556,596)	0.233503	(13,459)	(596,973)	(1,959,623)	0.005469	(10,597)	(65,508)	0.766497	(85,464)
2021 July	(2,705,825)	0.233503	(34,845)	(631,818)	(2,074,007)	0.005469	(11,030)	(76,538)	0.766497	(99,854)
2021 August	(2,831,475)	0.233503	(29,340)	(661,158)	(2,170,317)	0.005469	(11,506)	(88,145)	0.766497	(114,997)
2021 September	(3,020,133)	0.233503	(44,052)	(705,210)	(2,314,921)	0.005469	(12,165)	(100,410)	0.766497	(130,998)
2021 October	(3,062,663)	0.233503	(9,931)	(715,141)	(2,347,522)	0.005469	(12,750)	(113,160)	0.766497	(147,632)
2021 November	(3,026,233)	0.233503	8,506	(706,635)	(2,319,599)	0.005469	(12,763)	(125,922)	0.766497	(164,283)
2021 December	(3,123,099)	0.233503	(22,618)	(729,253)	(2,393,846)	0.005469	(12,889)	(138,812)	0.766497	(181,099)
Checks			(49,869)	(49,869)	(729,253)		(138,812)			(181,099)

Note 1: Amounts represent all revenue actually collected through 2021.

Note 2: Cells in Blue: Beginning Balances have been added in row 34. The cumulative deferred income tax column has been updated so the calculation includes the beginning balance.

Duke Energy Carolinas, LLC  
Docket Number E-7 Sub 1265  
Estimated Return Calculation -Non - Residential DSM Programs Vintage 2019

		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	NC Non- Residential DSM Program Collection %	Non-Residential DSM Program Costs Revenue Collected	(Over)/Under Collection
NC Non- Residential DSM								
See Listebarger Exhibit 5 pg. 2, Line 10								
Beginning Balance		30,097,219		12,076,004	15,942,519		(12,035,182)	40,822
2021	January	-	40.1233224%	-	2,569	13.0447472%	(335)	(335)
2021	February	-	40.1233224%	-	21,868	13.0447472%	(2,853)	(2,853)
2021	March	-	40.1233224%	-	23,522	13.0447472%	(3,068)	(3,068)
2021	April	-	40.1233224%	-	23,121	13.0447472%	(3,016)	(3,016)
2021	May	-	40.1233224%	-	21,046	13.0447472%	(2,745)	(2,745)
2021	June	-	40.1233224%	-	26,538	13.0447472%	(3,462)	(3,462)
2021	July	-	40.1233224%	-	30,892	13.0447472%	(4,030)	(4,030)
2021	August	-	40.1233224%	-	30,170	13.0447472%	(3,936)	(3,936)
2021	September	-	40.1233224%	-	31,654	13.0447472%	(4,129)	(4,129)
2021	October	-	40.1233224%	-	24,152	13.0447472%	(3,151)	(3,151)
2021	November	-	40.1233224%	-	24,992	13.0447472%	(3,260)	(3,260)
2021	December	-	40.1233224%	-	28,089	13.0447472%	(3,664)	(3,664)
		30,097,219		12,076,004	16,231,132		(12,072,831)	3,173

Program Costs to be Recovered in Ride	40,822
Revenues to be Collected in Rider 12	312,940
% Revenue related to Program Costs	13.0447%

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
	1/2021 - 12/2021					6.56%			0.766497	
Beginning Balance	40,822			9,532	31,290					
2021 January	40,487	0.233503	(78)	9,454	31,033	0.005469	170	170	0.766497	222
2021 February	37,634	0.233503	(666)	8,788	28,847	0.005469	164	334	0.766497	436
2021 March	34,566	0.233503	(716)	8,071	26,495	0.005469	151	486	0.766497	633
2021 April	31,550	0.233503	(704)	7,367	24,183	0.005469	139	624	0.766497	814
2021 May	28,805	0.233503	(641)	6,726	22,079	0.005469	127	751	0.766497	979
2021 June	25,343	0.233503	(808)	5,918	19,425	0.005469	113	864	0.766497	1,127
2021 July	21,313	0.233503	(941)	4,977	16,336	0.005469	98	962	0.766497	1,255
2021 August	17,377	0.233503	(919)	4,058	13,320	0.005469	81	1,043	0.766497	1,361
2021 September	13,248	0.233503	(964)	3,094	10,155	0.005469	64	1,107	0.766497	1,444
2021 October	10,098	0.233503	(736)	2,358	7,740	0.005469	49	1,156	0.766497	1,508
2021 November	6,838	0.233503	(761)	1,597	5,241	0.005469	35	1,192	0.766497	1,555
2021 December	3,173	0.233503	(856)	741	2,432	0.005469	21	1,213	0.766497	1,582
Checks			(8,791)	(8,791)	741		1,213			1,582

Note 1: Amounts represent all revenue actually collected through 2020.

Note 2: Cells in Blue: Beginning Balances have been added in row 29. The cumulative deferred income tax column has been updated so the calculation includes the beginning balance.

Duke Energy Carolinas, LLC  
Docket Number E-7 Sub 1265  
Estimated Return Calculation - Residential EE Programs Vintage 2020

	Residential EE Program Costs	NC Allocated EE Program Costs	NC Residential Revenue Collected	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
NC Residential EE	Incurred	NC Allocation %				
	Listebarger Exhibit 5 pg. 3, Line 4			see calc. at right		
Beginning Balance	51,310,734		37,570,373	51,645,101	59.3631972%	(30,658,183)
2021 January		73.2212736%			0.0000%	Note: All revenues collected in Rider 12 were to collect Y2 of lost revenue. Therefore, no revenue received in 2021 would offset the under collected balance of program costs and a return would still be earned.
2021 February		73.2212736%			0.0000%	
2021 March		73.2212736%			0.0000%	
2021 April		73.2212736%			0.0000%	
2021 May		73.2212736%			0.0000%	
2021 June		73.2212736%			0.0000%	
2021 July		73.2212736%			0.0000%	
2021 August		73.2212736%			0.0000%	
2021 September		73.2212736%			0.0000%	
2021 October		73.2212736%			0.0000%	
2021 November		73.2212736%			0.0000%	
2021 December		73.2212736%			0.0000%	
	51,310,734		37,570,373	51,645,101		6,912,190

Note: All revenues collected in Rider 12 were to collect Y2 of lost revenue. Therefore, no revenue received in 2021 would offset the under collected balance of program costs and a return would still be earned.

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
	1/2021 - 12/2021					6.56%			0.766497	
<b>Beginning Balance</b>	6,912,190			1,614,017	5,298,173					
2021 January	6,912,190	0.233503	-	1,614,017	5,298,173	0.005469	28,977	28,977	0.766497	37,804
2021 February	6,912,190	0.233503	-	1,614,017	5,298,173	0.005469	28,977	57,953	0.766497	75,608
2021 March	6,912,190	0.233503	-	1,614,017	5,298,173	0.005469	28,977	86,930	0.766497	113,412
2021 April	6,912,190	0.233503	-	1,614,017	5,298,173	0.005469	28,977	115,907	0.766497	151,216
2021 May	6,912,190	0.233503	-	1,614,017	5,298,173	0.005469	28,977	144,883	0.766497	189,020
2021 June	6,912,190	0.233503	-	1,614,017	5,298,173	0.005469	28,977	173,860	0.766497	226,824
2021 July	6,912,190	0.233503	-	1,614,017	5,298,173	0.005469	28,977	202,837	0.766497	264,628
2021 August	6,912,190	0.233503	-	1,614,017	5,298,173	0.005469	28,977	231,813	0.766497	302,432
2021 September	6,912,190	0.233503	-	1,614,017	5,298,173	0.005469	28,977	260,790	0.766497	340,236
2021 October	6,912,190	0.233503	-	1,614,017	5,298,173	0.005469	28,977	289,766	0.766497	378,040
2021 November	6,912,190	0.233503	-	1,614,017	5,298,173	0.005469	28,977	318,743	0.766497	415,844
2021 December	6,912,190	0.233503	-	1,614,017	5,298,173	0.005469	28,977	347,720	0.766497	453,648
Checks			-	-	1,614,017		347,720			453,648

Note 1: Amounts represent all revenue actually collected through 2021.

Note 2: Cells in Blue: Beginning Balances have been added in row 32. Cell E33 has been updated as the January cell had a bad cell reference. Adding the beginning balance for Net Deferred After Tax Balance changed the Monthly A/T Return on Deferral amount for January.

**Duke Energy Carolinas, LLC**  
**Docket Number E-7 Sub 1265**  
**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	Program Incentives	Total Costs	NC Residential Revenue Collected	NC Residential DSM Program Collection %	DSM Program Costs Revenue Collected	(Over)/Under Collection
	Listebarger Exhibit 5 pg. 3, Line 9						100% used due to overcollection		
<b>Beginning Balance - Source</b>	29,327,255		9,888,075	3,194,120	13,082,195	15,504,312		(15,504,312)	(2,422,117)
2021 January		33.71633333%	-	1,461	1,461		100.0000%	-	1,461
2021 February		33.71633333%	-	1,461	1,461		100.0000%	-	1,461
2021 March		33.71633333%	-	1,461	1,461		100.0000%	-	1,461
2021 April		33.71633333%	-	1,461	1,461		100.0000%	-	1,461
2021 May		33.71633333%	-	1,461	1,461		100.0000%	-	1,461
2021 June		33.71633333%	-	1,461	1,461		100.0000%	-	1,461
2021 July		33.71633333%	-	1,461	1,461		100.0000%	-	1,461
2021 August		33.71633333%	-	1,461	1,461		100.0000%	-	1,461
2021 September		33.71633333%	-	1,461	1,461		100.0000%	-	1,461
2021 October		33.71633333%	-	1,461	1,461		100.0000%	-	1,461
2021 November		33.71633333%	-	1,461	1,461		100.0000%	-	1,461
2021 December		33.71633333%	-	1,461	1,461		100.0000%	-	1,461
	29,327,255		9,888,075	3,211,648	13,099,723	15,504,312		(15,504,312)	(2,404,589)

Since Rider 13 was overcollected, interest has continued to be calculated on the entire 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
	1/2021 - 12/2021					6.56%			0.766497	
Beginning Balance	(2,422,117)			(565,572)	(1,856,545)					
2021 January	(2,420,656)	0.233503	341	(565,231)	(1,855,426)	0.005469	(10,151)	(10,151)	0.766497	(13,243)
2021 February	(2,419,196)	0.233503	341	(564,889)	(1,854,306)	0.005469	(10,145)	(20,295)	0.766497	(26,478)
2021 March	(2,417,735)	0.233503	341	(564,548)	(1,853,187)	0.005469	(10,138)	(30,434)	0.766497	(39,705)
2021 April	(2,416,274)	0.233503	341	(564,207)	(1,852,067)	0.005469	(10,132)	(40,566)	0.766497	(52,924)
2021 May	(2,414,814)	0.233503	341	(563,866)	(1,850,948)	0.005469	(10,126)	(50,692)	0.766497	(66,135)
2021 June	(2,413,353)	0.233503	341	(563,525)	(1,849,828)	0.005469	(10,120)	(60,812)	0.766497	(79,338)
2021 July	(2,411,892)	0.233503	341	(563,184)	(1,848,708)	0.005469	(10,114)	(70,926)	0.766497	(92,533)
2021 August	(2,410,432)	0.233503	341	(562,843)	(1,847,589)	0.005469	(10,108)	(81,034)	0.766497	(105,720)
2021 September	(2,408,971)	0.233503	341	(562,502)	(1,846,469)	0.005469	(10,102)	(91,136)	0.766497	(118,899)
2021 October	(2,407,511)	0.233503	341	(562,161)	(1,845,350)	0.005469	(10,096)	(101,232)	0.766497	(132,070)
2021 November	(2,406,050)	0.233503	341	(561,820)	(1,844,230)	0.005469	(10,089)	(111,321)	0.766497	(145,234)
2021 December	(2,404,589)	0.233503	341	(561,479)	(1,843,110)	0.005469	(10,083)	(121,404)	0.766497	(158,389)
Checks			4,093	4,093	(561,479)		(121,404)			(158,389)

Note 1: Amounts represent all revenue actually collected through 2021.

Note 2: Cells in Blue: Beginning Balances have been added in row 32. The cumulative deferred income tax column has been updated so the calculation includes the beginning balance.



Duke Energy Carolinas, LLC  
Docket Number E-7 Sub 1265  
Estimated Return Calculation - Non-Residential EE Programs Vintage 2020

NC Non- Residential EE	Non-Residential EE Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	Program Performance 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 3, Line 4							100% used due to overcollection		
Beginning Balance	30,082,572		22,026,843	7,142,705	3,839,208	33,008,756	44,023,239		(44,023,239)	(11,014,483)
2021 January	73.2212736%			4,721	1,203,023	1,207,744	1,383,560	100.00%	(1,383,560)	(175,816)
2021 February	73.2212736%			4,721	1,203,023	1,207,744	790,679	100.00%	(790,679)	417,065
2021 March	73.2212736%			4,721	1,203,023	1,207,744	696,234	100.00%	(696,234)	511,510
2021 April	73.2212736%			4,721	1,203,023	1,207,744	687,469	100.00%	(687,469)	520,275
2021 May	73.2212736%			4,721	1,203,023	1,207,744	628,499	100.00%	(628,499)	579,246
2021 June	73.2212736%			4,721	1,203,023	1,207,744	788,734	100.00%	(788,734)	419,010
2021 July	73.2212736%			4,721	1,203,023	1,207,744	906,904	100.00%	(906,904)	300,841
2021 August	73.2212736%			4,721	1,203,023	1,207,744	869,438	100.00%	(869,438)	338,306
2021 September	73.2212736%			4,721	1,203,023	1,207,744	959,762	100.00%	(959,762)	247,983
2021 October	73.2212736%			4,721	1,203,023	1,207,744	764,101	100.00%	(764,101)	443,643
2021 November	73.2212736%			4,721	1,203,023	1,207,744	668,944	100.00%	(668,944)	538,800
2021 December	73.2212736%			4,721	1,203,023	1,207,744	821,567	100.00%	(821,567)	386,178
	30,082,572		22,026,843	7,199,363	18,275,484	47,501,689	53,989,132		(53,989,132)	(6,487,442)

No program cost allocation is needed since Rider 13 was overcollected, in total and interest due was calculated on the entire vintage. Lost revenues earned in 2021 were applied to the outstanding balance and all revenues collected in 2021 were also applied to the outstanding balance.

Therefore, 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
	1/2021 - 12/2021					6.56%			0.766497	
Beginning Balance	(11,014,483)			(2,571,915)	(8,442,568)					
2021 January	(11,190,299)	0.233503	(41,054)	(2,612,968)	(8,577,331)	0.005469	(46,542)	(46,542)	0.766497	(60,721)
2021 February	(10,773,234)	0.233503	97,386	(2,515,582)	(8,257,652)	0.005469	(46,037)	(92,579)	0.766497	(120,782)
2021 March	(10,261,724)	0.233503	119,439	(2,396,143)	(7,865,581)	0.005469	(44,090)	(136,670)	0.766497	(178,304)
2021 April	(9,741,449)	0.233503	121,486	(2,274,658)	(7,466,791)	0.005469	(41,928)	(178,597)	0.766497	(233,005)
2021 May	(9,162,203)	0.233503	135,256	(2,139,402)	(7,022,801)	0.005469	(39,623)	(218,220)	0.766497	(284,698)
2021 June	(8,743,193)	0.233503	97,840	(2,041,562)	(6,701,631)	0.005469	(37,531)	(255,751)	0.766497	(333,662)
2021 July	(8,442,352)	0.233503	70,247	(1,971,315)	(6,471,038)	0.005469	(36,022)	(291,773)	0.766497	(380,658)
2021 August	(8,104,046)	0.233503	78,995	(1,892,319)	(6,211,727)	0.005469	(34,682)	(326,455)	0.766497	(425,905)
2021 September	(7,856,064)	0.233503	57,905	(1,834,414)	(6,021,649)	0.005469	(33,453)	(359,908)	0.766497	(469,550)
2021 October	(7,412,420)	0.233503	103,592	(1,730,822)	(5,681,598)	0.005469	(32,004)	(391,912)	0.766497	(511,303)
2021 November	(6,873,620)	0.233503	125,811	(1,605,011)	(5,268,609)	0.005469	(29,944)	(421,856)	0.766497	(550,369)
2021 December	(6,487,442)	0.233503	90,174	(1,514,837)	(4,972,605)	0.005469	(28,006)	(449,862)	0.766497	(586,906)
Checks			1,057,078	1,057,078	(1,514,837)		(449,862)			(586,906)

Note 1: Amounts represent all revenue actually collected through 2021.

Note 2: Cells in Blue: Beginning Balances have been added in row 34. The cumulative deferred income tax column has been updated so the calculation includes the beginning balance.

Duke Energy Carolinas, LLC  
Docket Number E-7 Sub 1265  
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	NC Non- Residential DSM Program Collection %	Non-Residential DSM Program Costs Revenue Collected	(Over)/Under Collection
	See Listebarger Exhibit 5 pg. 3, Line 10					100% used due to overcollection			
Beginning Balance	29,327,255		11,871,383	3,860,688	15,732,071	17,715,486		(17,715,486)	(1,983,414)
2021 January		40.4790117%	-	(405)	(405)	-	100.00000000%	-	(405)
2021 February		40.4790117%	-	(405)	(405)	74,520	100.00000000%	(74,520)	(74,925)
2021 March		40.4790117%	-	(405)	(405)	671	100.00000000%	(671)	(1,077)
2021 April		40.4790117%	-	(405)	(405)	8	100.00000000%	(8)	(413)
2021 May		40.4790117%	-	(405)	(405)	1	100.00000000%	(1)	(407)
2021 June		40.4790117%	-	(405)	(405)	71	100.00000000%	(71)	(477)
2021 July		40.4790117%	-	(405)	(405)	12	100.00000000%	(12)	(418)
2021 August		40.4790117%	-	(405)	(405)	(52)	100.00000000%	52	(353)
2021 September		40.4790117%	-	(405)	(405)	626	100.00000000%	(626)	(1,031)
2021 October		40.4790117%	-	(405)	(405)	(626)	100.00000000%	626	221
2021 November		40.4790117%	-	(405)	(405)	635	100.00000000%	(635)	(1,040)
2021 December		40.4790117%	-	(405)	(405)	(39,231)	100.00000000%	39,231	38,826
	29,327,255		11,871,383	3,855,826	15,727,210	17,752,122		(17,752,122)	(2,024,912)

No program cost allocation is needed since Rider 13 was overcollected, in total and interest due was calculated on the entire vintage. Lost revenues earned in 2021 were applied to the outstanding balance and all revenues collected in 2021 were also applied to the outstanding balance.

Therefore, 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
	1/2021 - 12/2021					6.56%			0.766497	
Beginning Balance	(1,983,414)			(463,133)	(1,520,281)					
2021 January	(405)	0.233503	(95)	(463,228)	462,823	0.005469	(2,892)	(2,892)	0.766497	(3,773)
2021 February	(75,331)	0.233503	(17,495)	(480,723)	405,393	0.005469	2,374	(518)	0.766497	(675)
2021 March	(76,407)	0.233503	(251)	(480,974)	404,567	0.005469	2,215	1,697	0.766497	2,214
2021 April	(76,820)	0.233503	(96)	(481,071)	404,251	0.005469	2,212	3,909	0.766497	5,100
2021 May	(77,226)	0.233503	(95)	(481,166)	403,939	0.005469	2,210	6,119	0.766497	7,983
2021 June	(77,703)	0.233503	(111)	(481,277)	403,574	0.005469	2,208	8,327	0.766497	10,864
2021 July	(78,120)	0.233503	(98)	(481,375)	403,254	0.005469	2,206	10,534	0.766497	13,743
2021 August	(78,473)	0.233503	(82)	(481,457)	402,984	0.005469	2,205	12,739	0.766497	16,619
2021 September	(79,505)	0.233503	(241)	(481,698)	402,193	0.005469	2,202	14,940	0.766497	19,492
2021 October	(79,284)	0.233503	52	(481,646)	402,363	0.005469	2,200	17,141	0.766497	22,362
2021 November	(80,324)	0.233503	(243)	(481,889)	401,565	0.005469	2,198	19,339	0.766497	25,230
2021 December	(41,498)	0.233503	9,066	(472,823)	431,325	0.005469	2,278	21,617	0.766497	28,202
Checks			(9,690)	(9,690)	(472,823)		21,617			28,202

Note 1: Amounts represent all revenue actually collected through 2021.

Note 2: Cells in Blue: Beginning Balances have been added in row 29. The Cumulative (Over)/Under Recovery in column C had a reference error, this has been corrected. The cumulative deferred income tax column has been updated so the calculation includes the beginning balance.

Duke Energy Carolinas, LLC  
Docket Number E-7 Sub 1265  
Estimated Return Calculation - Residential EE Programs Vintage 2021

		Residential EE							NC Residential EE	EE Program	
NC Residential EE		Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	Program Incentives	Lost Revenues	Total Costs	NC Residential Revenue Collected	Program Collection %	Costs Revenue Collected	(Over)/Under Collection
		Listebarger Exhibit 5 pg. 4, Line 4							100% used due to overcollection		
2021	January	1,806,147	73.5233682%	1,327,940	130,020	1,182,754	2,640,715	3,115,990	100.0000%	(3,115,990)	(475,275)
2021	February	2,431,280	73.5233682%	1,787,559	175,022	1,592,122	3,554,703	5,979,051	100.0000%	(5,979,051)	(2,424,347)
2021	March	2,954,841	73.5233682%	2,172,499	212,712	1,934,976	4,320,187	5,832,411	100.0000%	(5,832,411)	(1,512,224)
2021	April	3,242,259	73.5233682%	2,383,818	233,403	2,123,191	4,740,411	4,629,547	100.0000%	(4,629,547)	110,864
2021	May	2,488,632	73.5233682%	1,829,726	179,151	1,629,679	3,638,555	3,762,293	100.0000%	(3,762,293)	(123,738)
2021	June	3,246,602	73.5233682%	2,387,011	233,715	2,126,035	4,746,762	5,183,564	100.0000%	(5,183,564)	(436,802)
2021	July	2,364,378	73.5233682%	1,738,370	170,206	1,548,311	3,456,888	6,269,768	100.0000%	(6,269,768)	(2,812,880)
2021	August	2,363,589	73.5233682%	1,737,790	170,149	1,547,794	3,455,733	6,462,428	100.0000%	(6,462,428)	(3,006,694)
2021	September	3,922,710	73.5233682%	2,884,109	282,387	2,568,784	5,735,279	6,219,451	100.0000%	(6,219,451)	(484,172)
2021	October	3,464,959	73.5233682%	2,547,554	249,434	2,269,026	5,066,014	4,328,439	100.0000%	(4,328,439)	737,575
2021	November	2,674,604	73.5233682%	1,966,459	192,538	1,751,463	3,910,460	3,969,908	100.0000%	(3,969,908)	(59,448)
2021	December	4,717,732	73.5233682%	3,468,635	339,618	3,089,403	6,897,657	8,995,007	100.0000%	(8,995,007)	(2,097,350)
		35,677,735		26,231,472	2,568,356	23,363,537	52,163,365	64,747,858		(64,747,858)	(12,584,493)

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
		1/2021 - 12/2021					6.56%			0.766497	
2021	January	(475,275)	0.233503	(110,978)	(110,978)	(364,297)	0.005469	(996)	(996)	0.766497	(1,300)
2021	February	(2,899,623)	0.233503	(566,092)	(677,071)	(2,222,552)	0.005469	(7,074)	(8,070)	0.766497	(10,529)
2021	March	(4,411,847)	0.233503	(353,109)	(1,030,180)	(3,381,667)	0.005469	(15,325)	(23,395)	0.766497	(30,523)
2021	April	(4,300,983)	0.233503	25,887	(1,004,292)	(3,296,690)	0.005469	(18,263)	(41,658)	0.766497	(54,349)
2021	May	(4,424,721)	0.233503	(28,893)	(1,033,186)	(3,391,535)	0.005469	(18,290)	(59,948)	0.766497	(78,210)
2021	June	(4,861,523)	0.233503	(101,995)	(1,135,180)	(3,726,343)	0.005469	(19,464)	(79,412)	0.766497	(103,604)
2021	July	(7,674,403)	0.233503	(656,816)	(1,791,996)	(5,882,407)	0.005469	(26,276)	(105,688)	0.766497	(137,884)
2021	August	(10,681,098)	0.233503	(702,072)	(2,494,068)	(8,187,029)	0.005469	(38,474)	(144,162)	0.766497	(188,079)
2021	September	(11,165,270)	0.233503	(113,056)	(2,607,124)	(8,558,146)	0.005469	(45,791)	(189,953)	0.766497	(247,820)
2021	October	(10,427,695)	0.233503	172,226	(2,434,898)	(7,992,797)	0.005469	(45,260)	(235,213)	0.766497	(306,868)
2021	November	(10,487,143)	0.233503	(13,881)	(2,448,779)	(8,038,364)	0.005469	(43,839)	(279,052)	0.766497	(364,061)
2021	December	(12,584,493)	0.233503	(489,737)	(2,938,517)	(9,645,976)	0.005469	(48,359)	(327,411)	0.766497	(427,153)
Checks				(2,938,517)	(2,938,517)	(2,938,517)		(327,411)			(427,153)

Note 1: Amounts represent all revenue actually collected through 2021.

**Duke Energy Carolinas, LLC**  
**Docket Number E-7 Sub 1265**  
**Estimated Return Calculation - Residential DSM Programs Vintage 2021**

		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										
2021	January	1,625,830	34.9475492%	568,188	137,912	706,100	824,386	100.0000%	(824,386)	(118,286)
2021	February	1,861,375	34.9475492%	650,505	157,892	808,397	1,581,856	100.0000%	(1,581,856)	(773,459)
2021	March	1,932,178	34.9475492%	675,249	163,898	839,147	1,543,060	100.0000%	(1,543,060)	(703,913)
2021	April	2,879,839	34.9475492%	1,006,433	244,284	1,250,717	1,224,823	100.0000%	(1,224,823)	25,895
2021	May	1,640,354	34.9475492%	573,264	139,144	712,408	995,376	100.0000%	(995,376)	(282,969)
2021	June	2,019,985	34.9475492%	705,935	171,346	877,282	1,371,397	100.0000%	(1,371,397)	(494,115)
2021	July	4,168,637	34.9475492%	1,456,836	353,607	1,810,443	1,658,770	100.0000%	(1,658,770)	151,673
2021	August	3,898,456	34.9475492%	1,362,415	330,689	1,693,104	1,709,741	100.0000%	(1,709,741)	(16,638)
2021	September	3,925,636	34.9475492%	1,371,914	332,994	1,704,908	1,645,458	100.0000%	(1,645,458)	59,450
2021	October	4,516,753	34.9475492%	1,578,494	383,136	1,961,631	1,145,160	100.0000%	(1,145,160)	816,471
2021	November	1,763,142	34.9475492%	616,175	149,560	765,735	1,050,304	100.0000%	(1,050,304)	(284,570)
2021	December	2,643,978	34.9475492%	924,006	224,277	1,148,283	2,494,717	100.0000%	(2,494,717)	(1,346,434)
		32,876,164		11,489,414	2,788,739	14,278,153	17,245,048		(17,245,048)	(2,966,895)

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
1/2021 - 12/2021											0.766497
							6.56%				
2021	January	(118,286)	0.233503	(27,620)	(27,620)	(90,666)	0.005469	(248)	(248)	0.766497	(323)
2021	February	(891,745)	0.233503	(180,605)	(208,225)	(683,520)	0.005469	(2,117)	(2,365)	0.766497	(3,085)
2021	March	(1,595,658)	0.233503	(164,366)	(372,591)	(1,223,067)	0.005469	(5,214)	(7,579)	0.766497	(9,888)
2021	April	(1,569,764)	0.233503	6,046	(366,545)	(1,203,219)	0.005469	(6,635)	(14,214)	0.766497	(18,544)
2021	May	(1,852,732)	0.233503	(66,074)	(432,619)	(1,420,114)	0.005469	(7,174)	(21,387)	0.766497	(27,903)
2021	June	(2,346,848)	0.233503	(115,377)	(547,996)	(1,798,852)	0.005469	(8,803)	(30,190)	0.766497	(39,387)
2021	July	(2,195,174)	0.233503	35,416	(512,580)	(1,682,594)	0.005469	(9,520)	(39,710)	0.766497	(51,807)
2021	August	(2,211,812)	0.233503	(3,885)	(516,465)	(1,695,347)	0.005469	(9,237)	(48,948)	0.766497	(63,859)
2021	September	(2,152,362)	0.233503	13,882	(502,583)	(1,649,779)	0.005469	(9,148)	(58,095)	0.766497	(75,793)
2021	October	(1,335,891)	0.233503	190,648	(311,934)	(1,023,956)	0.005469	(7,312)	(65,407)	0.766497	(85,332)
2021	November	(1,620,460)	0.233503	(66,448)	(378,382)	(1,242,078)	0.005469	(6,197)	(71,603)	0.766497	(93,416)
2021	December	(2,966,895)	0.233503	(314,396)	(692,779)	(2,274,116)	0.005469	(9,615)	(81,219)	0.766497	(105,961)
Checks				(692,779)	(692,779)	(692,779)		(81,219)			(105,961)

Note 1: Amounts represent all revenue actually collected through 2021.

Duke Energy Carolinas, LLC  
Docket Number E-7 Sub 1265  
Estimated Return Calculation - Non- Residential EE Programs Vintage 2021

		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
NC Non- Residential EE		Listebarger Exhibit 5, pg 4, Line 4									
		See calc. at right									
2021	January	2,630,148	73.5233682%	1,933,773	483,719	977,177	3,394,669	1,020,322	100.0000000%	(1,020,322)	913,451
2021	February	2,758,573	73.5233682%	2,028,196	507,338	1,024,890	3,560,424	3,694,780	100.0000000%	(3,694,780)	(1,666,585)
2021	March	2,414,424	73.5233682%	1,775,166	444,044	897,029	3,116,239	4,002,820	100.0000000%	(4,002,820)	(2,227,655)
2021	April	3,989,941	73.5233682%	2,933,539	733,803	1,482,379	5,149,721	3,951,018	100.0000000%	(3,951,018)	(1,017,479)
2021	May	3,182,053	73.5233682%	2,339,552	585,221	1,182,225	4,106,999	3,605,136	100.0000000%	(3,605,136)	(1,265,584)
2021	June	2,591,922	73.5233682%	1,905,668	476,689	962,975	3,345,332	4,538,733	100.0000000%	(4,538,733)	(2,633,065)
2021	July	2,744,693	73.5233682%	2,017,991	504,785	1,019,733	3,542,509	5,193,948	100.0000000%	(5,193,948)	(3,175,957)
2021	August	4,013,209	73.5233682%	2,950,647	738,082	1,491,024	5,179,753	5,011,049	100.0000000%	(5,011,049)	(2,060,403)
2021	September	3,195,742	73.5233682%	2,349,617	587,739	1,187,311	4,124,668	5,474,795	100.0000000%	(5,474,795)	(3,125,178)
2021	October	4,489,722	73.5233682%	3,300,995	825,719	1,668,063	5,794,777	4,414,912	100.0000000%	(4,414,912)	(1,113,917)
2021	November	4,420,521	73.5233682%	3,250,116	812,992	1,642,353	5,705,460	3,822,764	100.0000000%	(3,822,764)	(572,648)
2021	December	4,038,645	73.5233682%	2,969,348	742,760	1,500,474	5,212,582	5,834,596	100.0000000%	(5,834,596)	(2,865,248)
		40,469,592		29,754,607	7,442,891	15,035,634	52,233,133	50,564,874		(50,564,874)	(20,810,267)

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 EE		1/2021 - 12/2021									
		6.56%									
		0.766497									
2021	January	913,451	0.233503	213,294	213,294	700,158	0.005469	1,915	1,915	0.766497	2,498
2021	February	(753,133)	0.233503	(389,153)	(175,859)	(577,274)	0.005469	336	2,251	0.766497	2,936
2021	March	(2,980,788)	0.233503	(520,164)	(696,023)	(2,284,765)	0.005469	(7,827)	(5,576)	0.766497	(7,274)
2021	April	(3,998,267)	0.233503	(237,584)	(933,607)	(3,064,660)	0.005469	(14,628)	(20,204)	0.766497	(26,359)
2021	May	(5,263,851)	0.233503	(295,518)	(1,229,125)	(4,034,726)	0.005469	(19,414)	(39,618)	0.766497	(51,687)
2021	June	(7,896,916)	0.233503	(614,829)	(1,843,954)	(6,052,963)	0.005469	(27,586)	(67,204)	0.766497	(87,677)
2021	July	(11,072,874)	0.233503	(741,596)	(2,585,549)	(8,487,324)	0.005469	(39,762)	(106,966)	0.766497	(139,551)
2021	August	(13,133,276)	0.233503	(481,110)	(3,066,659)	(10,066,617)	0.005469	(50,737)	(157,703)	0.766497	(205,745)
2021	September	(16,258,454)	0.233503	(729,738)	(3,796,398)	(12,462,056)	0.005469	(61,607)	(219,310)	0.766497	(286,119)
2021	October	(17,372,371)	0.233503	(260,103)	(4,056,501)	(13,315,870)	0.005469	(70,492)	(289,802)	0.766497	(378,086)
2021	November	(17,945,019)	0.233503	(133,715)	(4,190,216)	(13,754,803)	0.005469	(74,027)	(363,829)	0.766497	(474,664)
2021	December	(20,810,267)	0.233503	(669,044)	(4,859,260)	(15,951,007)	0.005469	(81,233)	(445,062)	0.766497	(580,644)
Checks				(4,859,260)	(4,859,260)	(4,859,260)		(445,062)			(580,644)

Note 1: Amounts represent all revenue actually collected through 2021.

Duke Energy Carolinas, LLC  
Docket Number E-7 Sub 1265  
Estimated Return Calculation -Non - Residential DSM Programs Vintage 2021

		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										
See Listebarger Exhibit 5 pg. 4, Line 10										
2021	January	1,625,830	39.4088278%	640,721	155,517	796,238	368,590	100.0000000%	(368,590)	427,648
2021	February	1,861,375	39.4088278%	733,546	178,048	911,594	1,384,272	100.0000000%	(1,384,272)	(472,678)
2021	March	1,932,178	39.4088278%	761,449	184,821	946,269	1,493,559	100.0000000%	(1,493,559)	(547,289)
2021	April	2,879,839	39.4088278%	1,134,911	275,468	1,410,379	1,483,929	100.0000000%	(1,483,929)	(73,550)
2021	May	1,640,354	39.4088278%	646,444	156,907	803,351	1,328,086	100.0000000%	(1,328,086)	(524,735)
2021	June	2,019,985	39.4088278%	796,052	193,220	989,272	1,695,925	100.0000000%	(1,695,925)	(706,652)
2021	July	4,168,637	39.4088278%	1,642,811	398,747	2,041,558	1,976,636	100.0000000%	(1,976,636)	64,922
2021	August	3,898,456	39.4088278%	1,536,336	372,903	1,909,239	1,909,853	100.0000000%	(1,909,853)	(614)
2021	September	3,925,636	39.4088278%	1,547,047	375,503	1,922,550	2,013,862	100.0000000%	(2,013,862)	(91,312)
2021	October	4,516,753	39.4088278%	1,779,999	432,046	2,212,045	1,539,896	100.0000000%	(1,539,896)	672,149
2021	November	1,763,142	39.4088278%	694,834	168,652	863,486	1,592,001	100.0000000%	(1,592,001)	(728,515)
2021	December	2,643,978	39.4088278%	1,041,961	252,907	1,294,868	2,118,822	100.0000000%	(2,118,822)	(823,954)
		32,876,164		12,956,111	3,144,740	16,100,851	18,905,431		(18,905,431)	(2,804,580)

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			1/2021 - 12/2021				6.56%			0.766497	
2021	January	427,648	0.233503	99,857	99,857	327,791	0.005469	896	896	0.766497	1,169
2021	February	(45,030)	0.233503	(110,372)	(10,515)	(34,515)	0.005469	802	1,698	0.766497	2,216
2021	March	(592,319)	0.233503	(127,794)	(138,308)	(454,011)	0.005469	(1,336)	362	0.766497	473
2021	April	(665,869)	0.233503	(17,174)	(155,482)	(510,387)	0.005469	(2,637)	(2,275)	0.766497	(2,968)
2021	May	(1,190,604)	0.233503	(122,527)	(278,010)	(912,594)	0.005469	(3,891)	(6,166)	0.766497	(8,044)
2021	June	(1,897,257)	0.233503	(165,005)	(443,015)	(1,454,241)	0.005469	(6,472)	(12,638)	0.766497	(16,488)
2021	July	(1,832,335)	0.233503	15,159	(427,856)	(1,404,479)	0.005469	(7,817)	(20,456)	0.766497	(26,687)
2021	August	(1,832,948)	0.233503	(143)	(427,999)	(1,404,949)	0.005469	(7,683)	(28,138)	0.766497	(36,710)
2021	September	(1,924,260)	0.233503	(21,322)	(449,320)	(1,474,939)	0.005469	(7,875)	(36,014)	0.766497	(46,985)
2021	October	(1,252,110)	0.233503	156,949	(292,372)	(959,739)	0.005469	(6,658)	(42,672)	0.766497	(55,671)
2021	November	(1,980,626)	0.233503	(170,111)	(462,482)	(1,518,144)	0.005469	(6,776)	(49,448)	0.766497	(64,511)
2021	December	(2,804,580)	0.233503	(192,396)	(654,878)	(2,149,702)	0.005469	(10,030)	(59,478)	0.766497	(77,597)
Checks				(654,878)	(654,878)	(654,878)		(59,478)			(77,597)

Note 1: Amounts represent all revenue actually collected through 2021.

Duke Energy Carolinas, LLC  
DSM/EE Actual Revenues Collected from Years 2018-2021 (By Vintage)  
and Estimated 2022 Collections from Rider 13 (by Vintage)  
Docket Number E-7 Sub 1265  
For Vintage Year 2018-2022 Estimate and True Up Calculations

			Actual 2018 Rider 9	Actual 2019 Rider 10	Actual 2020 Rider 11	Actual 2021 Rider 12	Estimated 2022 Rider 13 <sup>(1)</sup>	Total
<b>Residential</b>								
Line	Vintage							
	EE/DSM							
1	Year 2018		83,631,851	6,302,019	25,272,676	2,818,706	2,924,339	120,949,591
2	Year 2019			77,019,837	5,261,547	29,067,535	1,185,495	112,534,414
3	Year 2020				67,149,413	4,559,292	14,672,178	86,380,883
4	Year 2021					81,992,905	6,249,665	88,242,571
5	Year 2022						79,361,507	79,361,507
6	<b>Total Residential</b>		<b>\$ 83,631,851</b>	<b>\$ 83,321,856</b>	<b>\$ 97,683,636</b>	<b>\$ 118,438,439</b>	<b>\$ 104,393,183</b>	<b>\$ 487,468,965</b>
<b>Non-Residential</b>								
	EE							
7	Year 2018		51,998,801	12,546,122	12,194,157	1,712,636	513,230	78,964,947
8	Year 2019			52,862,599	8,232,962	6,920,864	(5,111,203)	62,905,222
9	Year 2020				44,023,239	9,965,893	(7,365,043)	46,624,089
10	Year 2021					50,564,874	13,494,665	64,059,539
11	Year 2022						68,099,841	68,099,841
	DSM							
12	Year 2018		14,074,924	777,733	1,176,922	(168,075)	345,011	16,206,515
13	Year 2019			15,674,069	268,450	288,613	(260,821)	15,970,311
14	Year 2020				17,715,486	36,636	(2,037,192)	15,714,929
15	Year 2021					18,905,431		18,905,431
16	Year 2022						18,683,620	18,683,620
17	<b>Total Non-Residential</b>		<b>\$ 66,073,725</b>	<b>\$ 81,860,522</b>	<b>\$ 83,611,216</b>	<b>\$ 88,226,872</b>	<b>\$ 86,362,108</b>	<b>\$ 406,134,443</b>
18	<b>Total Revenue</b>		<b>\$ 149,705,576</b>	<b>\$ 165,182,379</b>	<b>\$ 181,294,852</b>	<b>\$ 206,665,311</b>	<b>\$ 190,755,292</b>	<b>\$ 893,603,408</b>

<sup>(1)</sup> Rider 13 estimates are based on Order issued in Docket No. E-7 Sub 1249 dated 9/10/2021.

Duke Energy Carolinas, LLC  
Vintage Year 2018 Allocation Factors for the Period January 1, 2018 - December 31, 2018  
Docket Number E-7 Sub 1265  
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 1265  
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 1265  
Allocation Factors

			MWH		
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, 2023  
Docket Number E-7 Sub 1265  
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  
DSM/EE Cost Recovery Rider 14  
Docket Number E-7 Sub 1265  
Forecasted 2023 kWh Sales for Rate Period for Vintage Years 2018-2023

Fall 2021 Sales Forecast - kWhs		Forecasted 2023 sales		
North Carolina Retail:				
Line				
1	Residential	22,809,393,337		
2	Non-Residential	35,294,575,316		
3	Total Retail	58,103,968,653		
NC Opt Out Sales		Total Usage	Opt-Outs	Net Usage
Vintage 2018 Actual Opt Out				
4	EE	35,294,575,316	19,849,513,795	15,445,061,521
5	DSM	35,294,575,316	18,757,237,757	16,537,337,560
Vintage 2019 Actual Opt Out				
6	EE	35,294,575,316	19,899,108,979	15,395,466,337
7	DSM	35,294,575,316	18,724,008,595	16,570,566,722
Vintage 2020 Estimated Opt Out				
8	EE	35,294,575,316	20,462,991,216	14,831,584,100
9	DSM	35,294,575,316	18,685,003,977	16,609,571,340
Vintage 2021 Estimated Opt Out				
10	EE	35,294,575,316	20,390,666,139	14,903,909,177
11	DSM	35,294,575,316	18,648,145,239	16,646,430,078
Vintage 2022 Estimated Opt Out				
12	EE	35,294,575,316	20,085,420,707	15,209,154,609
13	DSM	35,294,575,316	18,386,911,672	16,907,663,645
Vintage 2023 Estimated Opt Out				
14	EE	35,294,575,316	20,085,420,707	15,209,154,609
15	DSM	35,294,575,316	18,386,911,672	16,907,663,645

Duke Energy Carolinas  
Evans Exhibit 1  
Vintage 2018 True Up - January 1, 2018 to December 31, 2018  
Docket Number E-7, Sub 1265  
Load Impacts and Estimated Revenue Requirements by Program

	A	B	C	D	E	F	G	H			
				= (A-B)*C	= (B+D)						
Residential Programs	System kW Reduction - Summer	System Energy Reduction (kWh)	System NPV of Avoided Costs	Total Cost	Shared Savings %	Incentive	System Revenue Requirement	NC Retail kWh Sales Allocation Factor	NC Allocation Factor (2)	NC Residential Revenue Requirement	
EE Programs											
1 Energy Efficiency Education	967	5,530,707	\$ 2,863,856	\$ 1,992,260	11.5%	\$ 100,234	\$ 2,092,493	72.7130507%	E1 * F1	\$ 1,521,516	
2 Energy Efficient Appliances and Devices	35,125	194,356,910	\$ 137,713,128	\$ 42,687,244	11.5%	\$ 10,927,977	\$ 53,615,221	72.7130507%	E2 * F2	\$ 38,985,262	
3 HVAC Energy Efficiency	1,640	6,367,174	\$ 7,089,332	\$ 6,955,146	11.5%	\$ 15,431	\$ 6,970,577	72.7130507%	E3 * F3	\$ 5,068,520	
4 Low Income Energy Efficiency and Weatherization Assistance	888	6,845,653	\$ 4,253,631	\$ 6,490,735	0.0%	\$ -	\$ 6,490,735	72.7130507%	E4 * F4	\$ 4,719,611	
5 Multi-Family Energy Efficiency	2,336	20,923,363	\$ 13,616,696	\$ 3,604,921	11.5%	\$ 1,151,354	\$ 4,756,276	72.7130507%	E5 * F5	\$ 3,458,433	
6 Residential Energy Assessments	929	7,716,668	\$ 5,757,648	\$ 2,836,229	11.5%	\$ 335,963	\$ 3,172,192	72.7130507%	E6 * F6	\$ 2,306,597	
7 Total for Residential Conservation Programs	41,885	241,740,474	\$ 171,294,293	\$ 64,566,534		\$ 12,530,959	\$ 77,097,493			\$ 56,059,939	
8 My Home Energy Report	95,887	344,759,844	\$ 22,687,264	\$ 12,765,286	11.5%	\$ 1,141,027	\$ 13,906,313	72.7130507%	E8 * F8	\$ 10,111,705	
9 Total Residential Conservation and Behavioral Programs	137,772	586,500,319	\$ 193,981,557	\$ 77,331,820		\$ 13,671,987	\$ 91,003,807			\$ 66,171,644	
								NC Residential Peak Demand Allocation Factor			
10 Power Manager®	533,506	-	\$ 61,927,510	\$ 14,423,610	11.5%	\$ 5,462,949	\$ 19,886,558	73.6287551%	43.675154%	(E10+E26) *F10 *G10	\$ 12,360,739
11 Total Residential	671,278	586,500,319	\$ 255,909,067	\$ 91,755,430		\$ 19,134,935	\$ 110,890,365				\$ 78,532,383

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages  
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas  
Evans Exhibit 1  
Vintage 2019 True Up - January 1, 2019 to December 31, 2019  
Docket Number E-7, Sub 1265  
Load Impacts and Estimated Revenue Requirements by Program

	A	B	C	D	E	F	G	H		
				=(A-B)*C	=(B*D)					
Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Costs	Total Cost	Shared Savings %	Incentive	System Revenue Requirement	NC Retail kWh Sales Allocation Factor	NC Allocation Factor (2)	NC Residential Revenue Requirement
EE Programs										
1 Energy Efficiency Education	841	6,713,787	\$ 2,519,645	\$ 1,644,077	11.5%	\$ 100,690	\$ 1,744,767	73.0903918%		E1 * F1 \$ 1,275,257
2 Energy Efficient Appliances and Devices	31,844	187,571,870	\$ 102,716,013	\$ 40,433,533	11.5%	\$ 7,162,485	\$ 47,596,018	73.0903918%		E2 * F2 \$ 34,788,116
3 HVAC Energy Efficiency	2,029	7,329,114	\$ 7,079,940	\$ 7,402,907	11.5%	\$ (37,141)	\$ 7,365,766	73.0903918%		E3 * F3 \$ 5,383,667
4 Low Income Energy Efficiency and Weatherization Assistance	1,189	8,501,375	\$ 3,421,362	\$ 7,344,325	0.0%	\$ 7,344,325	\$ 7,344,325	73.0903918%		E4 * F4 \$ 5,367,996
5 Multi-Family Energy Efficiency	2,610	21,339,210	\$ 10,815,659	\$ 3,681,262	11.5%	\$ 820,456	\$ 4,501,718	73.0903918%		E5 * F5 \$ 3,290,323
6 Residential Energy Assessments	946	7,886,916	\$ 4,413,585	\$ 3,153,757	11.5%	\$ 144,880	\$ 3,298,637	73.0903918%		E6 * F6 \$ 2,410,987
7 Total for Residential Conservation Programs	39,460	239,342,273	\$ 130,966,204	\$ 63,659,861		\$ 8,191,370	\$ 71,851,232			\$ 52,516,346
8 My Home Energy Report	91,387	328,439,103	\$ 23,361,954	\$ 10,558,344	11.5%	\$ 1,472,415	\$ 12,030,759	73.0903918%		E8 * F8 \$ 8,793,329
9 Total Residential Conservation and Behavioral Programs	130,847	567,781,375	\$ 154,328,158	\$ 74,218,205		\$ 9,663,785	\$ 83,881,991			\$ 61,309,675
								NC Residential Peak Demand Allocation Factor		
10 Power Manager*	568,235	-	\$ 69,783,157	\$ 13,386,942	11.5%	\$ 6,485,565	\$ 19,872,507	74.2414264%	45.955615%	(E10+E26) *F10 *G10 \$ 13,609,891
11 Total Residential	699,082	567,781,375	\$ 224,111,315	\$ 87,605,147		\$ 16,149,350	\$ 103,754,497			\$ 74,919,566
Non-Residential Programs										
EE Programs										
12 Non Residential Energy Efficient ITEE	-	11,262	\$ 1,385	\$ 44,335	11.5%	\$ (4,939)	\$ 39,395	73.0903918%		E12 * F12 \$ 28,794
13 Non Residential Smart Saver Custom	10,109	52,522,612	\$ 35,884,367	\$ 8,873,872	11.5%	\$ 3,106,207	\$ 11,980,079	73.0903918%		E13 * F13 \$ 8,756,287
14 Non Residential Smart Saver Custom Technical Assessments	148	1,930,762	\$ 691,285	\$ 296,006	11.5%	\$ 45,457	\$ 341,463	73.0903918%		E14 * F14 \$ 249,577
15 Non Residential Smart Saver Energy Efficient Food Service Products	78	997,611	\$ 412,886	\$ 339,996	11.5%	\$ 8,382	\$ 348,378	73.0903918%		E16 * F16 \$ 254,631
16 Non Residential Smart Saver Energy Efficient HVAC Products	1,696	7,533,194	\$ 5,516,665	\$ 2,208,364	11.5%	\$ 380,455	\$ 2,588,818	73.0903918%		E17 * F17 \$ 1,892,178
17 Non Residential Smart Saver Energy Efficient Lighting Products	29,566	163,560,290	\$ 105,608,459	\$ 20,834,766	11.5%	\$ 9,748,975	\$ 30,583,741	73.0903918%		E18 * F18 \$ 22,353,776
18 Non Residential Smart Saver Energy Efficient Process Equipment Products	111	732,043	\$ 416,343	\$ 119,843	11.5%	\$ 34,097	\$ 153,941	73.0903918%		E19 * F19 \$ 112,516
19 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	232	1,460,589	\$ 720,816	\$ 189,172	11.5%	\$ 61,139	\$ 250,311	73.0903918%		E20 * F20 \$ 182,953
20 Smart Saver(R) Non Residential Performance Incentive Program	391	4,545,995	\$ 2,238,186	\$ 785,165	11.5%	\$ 167,097	\$ 952,262	73.0903918%		E21 * F21 \$ 696,012
21 Small Business Energy Saver	9,196	53,674,194	\$ 25,661,729	\$ 11,421,399	11.5%	\$ 1,637,638	\$ 13,059,037	73.0903918%		E22 * F22 \$ 9,544,901
22 Smart Energy in Offices			\$ -	\$ -	11.5%	\$ -	\$ -	73.0903918%		E23 * F23 \$ -
23 Total for Non-Residential Conservation Programs	51,527	286,968,552	\$ 177,152,121	\$ 45,112,917		\$ 15,184,508	\$ 60,297,426			\$ 44,071,625
								NC Non-Residential Peak Demand Allocation Factor		
24 EnergyWise for Business	11,716	5,148,231	\$ 3,400,854	\$ 3,687,462	11.5%	\$ (32,960)	\$ 3,654,502	74.2414264%		
25 PowerShare*	342,590	-	\$ 42,072,382	\$ 13,022,816	11.5%	\$ 3,340,700	\$ 16,363,516	74.2414264%		
26 Total for Non-Residential DSM Programs	354,306	5,148,231	\$ 45,473,236	\$ 16,710,278		\$ 3,307,740	\$ 20,018,018	74.2414264%	54.044385%	(E10+E26) *F26 *G26 \$ 16,005,404
27 Total Non Residential	405,834	292,116,783	\$ 222,625,357	\$ 61,823,195		\$ 18,492,249	\$ 80,315,444			\$ 60,077,029
28 Total All Programs	1,104,916	859,898,158	\$ 446,736,672	\$ 149,428,343		\$ 34,641,599	\$ 184,069,941			\$ 134,996,595
	-	-	\$ -	\$ -		\$ -	\$ -			\$ (0)

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages  
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas  
Evans Exhibit 1  
Vintage 2020 True Up - January 1, 2020 to December 31, 2020  
Docket Number E-7, Sub 1265  
Load Impacts and Estimated Revenue Requirements by Program

	A	B	C	D	E	F	G	H		
				=(A-B)*C	=(B*D)					
Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Costs	Total Cost	Shared Savings %	Incentive	System Revenue Requirement	NC Retail kWh Sales Allocation Factor	NC Allocation Factor (2)	NC Residential Revenue Requirement
EE Programs										
1 Energy Efficiency Education	(276)	4,746,423	\$ 1,234,203	\$ 1,113,485	11.5%	\$ 13,883	\$ 1,127,367	73.2212736%		E1 * F1 \$ 825,473
2 Energy Efficient Appliances and Devices	16,975	110,986,906	\$ 62,028,986	\$ 22,124,101	11.5%	\$ 4,589,062	\$ 26,713,163	73.2212736%		E2 * F2 \$ 19,559,718
3 HVAC Energy Efficiency	2,190	7,689,428	\$ 7,811,427	\$ 7,538,303	11.5%	\$ 31,409	\$ 7,569,712	73.2212736%		E3 * F3 \$ 5,542,640
4 Low Income Energy Efficiency and Weatherization Assistance	301	2,039,928	\$ 1,024,203	\$ 2,787,490	0.0%	\$ -	\$ 2,787,490	73.2212736%		E4 * F4 \$ 2,041,036
5 Multi-Family Energy Efficiency	522	4,042,084	\$ 2,156,883	\$ 1,613,839	11.5%	\$ 62,450	\$ 1,676,289	73.2212736%		E5 * F5 \$ 1,227,400
6 Residential Energy Assessments	944	7,891,628	\$ 4,582,748	\$ 3,358,880	11.5%	\$ 140,745	\$ 3,499,625	73.2212736%		E6 * F6 \$ 2,562,470
7 Total for Residential Conservation Programs	20,656	137,396,395	\$ 78,838,449	\$ 38,536,099		\$ 4,837,548	\$ 43,373,647			\$ 31,758,737
8 My Home Energy Report	92,401	332,105,411	\$ 23,927,899	\$ 12,749,651	11.5%	\$ 1,285,498	\$ 14,035,150	73.2212736%		E8 * F8 \$ 10,276,715
9 Total Residential Conservation and Behavioral Programs	113,058	469,501,806	\$ 102,766,348	\$ 51,285,750		\$ 6,123,047	\$ 57,408,797			\$ 42,035,452
								NC Residential Peak Demand Allocation Factor		
10 Power Manager*	593,227	-	\$ 74,785,083	\$ 14,303,277	11.5%	\$ 6,955,408	\$ 21,258,684	74.1953449%	45.442653%	(E10+E26) *F10 *G10 \$ 13,099,723
11 Total Residential	706,284	469,501,806	\$ 177,551,431	\$ 65,589,027		\$ 13,078,455	\$ 78,667,481			\$ 55,135,175
Non-Residential Programs										
EE Programs										
12 Non Residential Energy Efficient ITEE	-	9,917	\$ 1,734	\$ 15,179	11.5%	\$ (1,546)	\$ 13,632	73.2212736%		E12 * F12 \$ 9,982
13 Non Residential Smart Saver Custom	4,785	21,156,703	\$ 15,898,503	\$ 5,771,790	11.5%	\$ 1,164,572	\$ 6,936,362	73.2212736%		E13 * F13 \$ 5,078,893
14 Non Residential Smart Saver Custom Technical Assessments	76	1,413,836	\$ 518,862	\$ 330,629	11.5%	\$ 21,647	\$ 352,275	73.2212736%		E14 * F14 \$ 257,941
15 Non Residential Smart Saver Energy Efficient Food Service Products	35	502,870	\$ 230,241	\$ 533,411	11.5%	\$ (34,865)	\$ 498,546	73.2212736%		E16 * F16 \$ 365,042
16 Non Residential Smart Saver Energy Efficient HVAC Products	1,682	9,270,812	\$ 7,423,034	\$ 2,450,713	11.5%	\$ 571,817	\$ 3,022,530	73.2212736%		E17 * F17 \$ 2,213,135
17 Non Residential Smart Saver Energy Efficient Lighting Products	18,365	109,556,031	\$ 71,995,510	\$ 13,098,851	11.5%	\$ 6,773,116	\$ 19,871,967	73.2212736%		E18 * F18 \$ 14,550,507
18 Non Residential Smart Saver Energy Efficient Process Equipment Products	206	567,122	\$ 236,299	\$ 29,681	11.5%	\$ 23,761	\$ 53,442	73.2212736%		E19 * F19 \$ 39,131
19 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	225	1,402,429	\$ 757,993	\$ 167,464	11.5%	\$ 67,911	\$ 235,375	73.2212736%		E20 * F20 \$ 172,345
20 Smart Saver(R) Non Residential Performance Incentive Program	223	5,961,326	\$ 2,035,780	\$ 751,724	11.5%	\$ 147,666	\$ 899,391	73.2212736%		E21 * F21 \$ 658,545
21 Small Business Energy Saver	6,079	32,007,385	\$ 16,483,207	\$ 6,933,130	11.5%	\$ 1,098,259	\$ 8,031,389	73.2212736%		E22 * F22 \$ 5,880,685
22 Smart Energy in Offices			\$ -	\$ -	11.5%	\$ -	\$ -	73.2212736%		E23 * F23 \$ -
23 Total for Non-Residential Conservation Programs	31,676	181,848,432	\$ 115,581,162	\$ 30,082,573		\$ 9,832,338	\$ 39,914,910			\$ 29,226,206
								NC Non-Residential Peak Demand Allocation Factor		
24 EnergyWise for Business	11,854	2,604,631	\$ 2,505,142	\$ 2,941,282	11.5%	\$ (50,156)	\$ 2,891,126	74.1953449%		
25 PowerShare*	276,583	-	\$ 34,867,428	\$ 12,082,697	11.5%	\$ 2,620,244	\$ 14,702,941	74.1953449%		
26 Total for Non-Residential DSM Programs	288,437	2,604,631	\$ 37,372,570	\$ 15,023,979		\$ 2,570,088	\$ 17,594,067	74.1953449%	54.557347%	(E10+E26) *F26 *G26 \$ 15,727,210
27 Total Non Residential	320,113	184,453,063	\$ 152,953,732	\$ 45,106,551		\$ 12,402,426	\$ 57,508,977			\$ 44,953,416
28 Total All Programs	1,026,398	653,954,870	\$ 330,505,163	\$ 110,695,578		\$ 25,480,880	\$ 136,176,458			\$ 100,088,591
	-	-	\$ -	\$ -		\$ -	\$ -			\$ (0)

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages  
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas  
Evans Exhibit 1  
Vintage 2021 True Up - January 1, 2021 to December 31, 2021  
Docket Number E-7, Sub 1265  
Load Impacts and Estimated Revenue Requirements by Program

	A	B	C	D	E	F	G	H				
				=(A-B)*C	=(B+D)							
	System kW Reduction - Summer Peak	System kW Reduction - Winter Peak	System Energy Reduction (kWh)	System NPV of Avoided Costs	Total Cost	Shared Savings %	Incentive	System Revenue Requirement	NC Retail kWh Sales Allocation Factor	NC Allocation Factor (Z)	NC Residential Revenue Requirement	
Residential Programs												
EE Programs												
1 Energy Efficiency Education	(1,192)	40	7,013,162	\$ 1,513,478	\$ 1,147,501	11.5%	\$ 42,087	\$ 1,189,588	73.5233682%	E1 * F1	\$ 874,625	
2 Energy Efficient Appliances and Devices	8,813	6,584	51,700,635	\$ 25,474,094	\$ 10,824,171	11.5%	\$ 1,684,741	\$ 12,508,912	73.5233682%	E2 * F2	\$ 9,196,973	
3 Residential – Smart Saver Energy Efficiency Program	2,556	2,713	9,425,675	\$ 8,402,753	\$ 8,156,036	11.5%	\$ 28,372	\$ 8,184,408	73.5233682%	E3 * F3	\$ 6,017,453	
4 Low Income Energy Efficiency and Weatherization Assistance	493	492	2,545,882	\$ 1,452,358	\$ 4,634,161	0.0%	\$ -	\$ 4,634,161	73.5233682%	E4 * F4	\$ 3,407,192	
5 Multi-Family Energy Efficiency	279	362	2,019,667	\$ 993,893	\$ 517,454	11.5%	\$ 54,791	\$ 572,244	73.5233682%	E5 * F5	\$ 420,733	
6 Residential Energy Assessments	748	573	6,590,951	\$ 3,278,832	\$ 3,326,179	11.5%	\$ (5,445)	\$ 3,320,734	73.5233682%	E6 * F6	\$ 2,441,516	
7 Total for Residential Conservation Programs	11,697	10,763	79,295,972	\$ 41,115,407	\$ 28,605,502		\$ 1,804,547	\$ 30,410,048			\$ 22,358,492	
8 My Home Energy Report	93,380	81,339	336,292,411	\$ 21,313,709	\$ 7,072,233	11.5%	\$ 1,637,770	\$ 8,710,003	73.5233682%	E8 * F8	\$ 6,403,887	
9 Total Residential Conservation and Behavioral Programs	105,077	92,102	415,588,383	\$ 62,429,117	\$ 35,677,734		\$ 3,442,316	\$ 39,120,051			\$ 28,762,379	
									NC Residential Peak Demand Allocation Factor			
10 Power Manager*	456,664	-	-	\$ 57,584,854	\$ 16,829,058	11.5%	\$ 4,686,917	\$ 21,515,975	74.35637711%	47.0000700%	(E10+E26) *F10 *G10	\$ 14,259,587
11 Total Residential	561,741	92,102	415,588,383	\$ 120,013,971	\$ 52,506,792		\$ 8,129,233	\$ 60,636,025			\$ 43,021,966	
	System kW Reduction - Summer Peak	System kW Reduction - Winter Peak	System Energy Reduction (kWh)	System NPV of Avoided Costs	Total Cost	Shared Savings %	Incentive	System Revenue Requirement	NC Retail kWh Sales Allocation Factor		NC Non-Residential Revenue Requirement	
Non-Residential Programs												
EE Programs												
12 Non Residential Energy Efficient ITEE	-	-	2,353	\$ 416	\$ 74,699	11.5%	\$ (8,543)	\$ 66,156	73.5233682%	E12 * F12	\$ 48,640	
13 Non Residential Smart Saver Custom	6,572	4,125	30,798,533	\$ 19,324,372	\$ 7,505,201	11.5%	\$ 1,359,205	\$ 8,864,406	73.5233682%	E13 * F13	\$ 6,517,410	
14 Non Residential Smart Saver Custom Technical Assessments	110	6	921,248	\$ 432,158	\$ 293,539	11.5%	\$ 15,941	\$ 309,480	73.5233682%	E14 * F14	\$ 227,540	
15 Non Residential Smart Saver Energy Efficient Food Service Products	80	75	1,201,408	\$ 479,963	\$ 203,130	11.5%	\$ 31,836	\$ 234,966	73.5233682%	E16 * F16	\$ 172,755	
16 Non Residential Smart Saver Energy Efficient HVAC Products	3,325	5,262	21,054,972	\$ 14,900,228	\$ 4,899,800	11.5%	\$ 1,150,049	\$ 6,049,849	73.5233682%	E17 * F17	\$ 4,448,053	
17 Non Residential Smart Saver Energy Efficient Lighting Products	20,325	19,283	116,783,529	\$ 68,949,662	\$ 17,924,291	11.5%	\$ 5,867,918	\$ 23,792,209	73.5233682%	E18 * F18	\$ 17,492,833	
18 Non Residential Smart Saver Energy Efficient Process Equipment Products	117	117	824,803	\$ 257,010	\$ 87,540	11.5%	\$ 19,489	\$ 107,029	73.5233682%	E19 * F19	\$ 78,691	
19 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	239	244	1,521,286	\$ 666,628	\$ 202,615	11.5%	\$ 53,362	\$ 255,977	73.5233682%	E20 * F20	\$ 188,203	
20 Smart Saver(R) Non Residential Performance Incentive Program	1,079	1,040	8,247,437	\$ 4,234,077	\$ 342,826	11.5%	\$ 447,494	\$ 790,320	73.5233682%	E21 * F21	\$ 581,070	
21 Small Business Energy Saver	7,011	8,209	38,560,812	\$ 18,680,538	\$ 8,935,952	11.5%	\$ 1,120,627	\$ 10,056,579	73.5233682%	E22 * F22	\$ 7,393,936	
22 Smart Energy in Offices	-	-	-	\$ -	\$ -	11.5%	\$ -	\$ -	73.5233682%	E23 * F23	\$ -	
23 Total for Non-Residential Conservation Programs	38,859	38,362	219,916,383	\$ 127,925,053	\$ 40,469,592		\$ 10,057,378	\$ 50,526,970			\$ 37,149,131	
									NC Non-Residential Peak Demand Allocation Factor			
24 EnergyWise for Business	11,564	232	1,436,361	\$ 1,964,689	\$ 2,463,194	11.5%	\$ (57,328)	\$ 2,405,866	74.35637711%			
25 PowerShare*	335,086	311,630	-	\$ 42,254,098	\$ 13,583,912	11.5%	\$ 3,297,071	\$ 16,880,983	74.35637711%			
26 Total for Non-Residential DSM Programs	346,651	311,862	1,436,361	\$ 44,218,787	\$ 16,047,106		\$ 3,239,743	\$ 19,286,849	74.35637711%	52.9999303%	(E10+E26) *F26 *G26	\$ 16,079,915
27 Total Non Residential	385,509	350,224	221,352,744	\$ 172,143,840	\$ 56,516,699		\$ 13,297,121	\$ 69,813,820			\$ 53,229,046	
28 Total All Programs	947,250	442,326	636,941,127	\$ 292,157,811	\$ 109,023,491		\$ 21,426,354	\$ 130,449,845			\$ 96,251,012	
	-	-	-	\$ -	\$ -		\$ -	\$ -			\$ -	

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages  
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak



Duke Energy Carolinas  
Evans Exhibit 1  
Vintage 2023 Estimate - January 1, 2023 to December 31, 2023  
Docket Number E-7, Sub 1265  
Load Impacts and Estimated Revenue Requirements by Program

	A	B	C	D	E	F	G =A*C*D	H =(A-B)*C*D	I	J			
	System kW Reduction - Summer Peak	System kW Reduction - Winter Peak	System Energy Reduction (kWh)	System NPV of Avoided Costs	Total Cost	Shared Savings %	NC Retail kWh Sales Allocation Factor	NC Allocation Factor (2)	NC Allocated Total Cost	NC PRI	NC PPI	NC PPI Cap Reduction	NC Revenue Requirement
Residential Programs													
EE Programs													
1 Energy Efficiency Education	(2,299)	76	13,527,549	\$ 2,757,352	\$ 2,234,205	10.6%	73.5233682%		\$ 1,642,662		\$ 40,771		\$ 1,683,434
2 Energy Efficient Appliances and Devices	8,508	8,106	54,068,275	\$ 32,335,837	\$ 12,770,451	10.6%	73.5233682%		\$ 9,389,265		\$ 1,524,824		\$ 10,914,089
3 Residential – Smart Saver Energy Efficiency Program	2,035	2,197	7,523,873	\$ 8,786,958	\$ 7,424,637	10.6%	73.5233682%		\$ 5,458,843		\$ 106,172		\$ 5,565,016
4 Low Income Energy Efficiency and Weatherization Assistance	2,044	1,725	9,120,903	\$ 6,733,294	\$ 8,826,241	10.6%	73.5233682%		\$ 6,489,349	\$ 524,758			\$ 7,014,107
5 Multi-Family Energy Efficiency	2,404	3,258	18,590,827	\$ 11,077,783	\$ 3,267,171	10.6%	73.5233682%		\$ 2,402,134		\$ 608,718		\$ 3,010,852
6 Residential Energy Assessments	1,769	1,257	14,843,876	\$ 8,325,803	\$ 5,627,652	10.6%	73.5233682%		\$ 4,137,639		\$ 210,280		\$ 4,347,919
7 Residential New Construction	4,351	4,398	14,899,275	\$ 22,757,696	\$ 11,506,518	10.6%	73.5233682%		\$ 8,459,979		\$ 876,858		\$ 9,336,837
8 Total for Residential Conservation Programs	18,811	21,017	132,574,578	\$ 92,774,722	\$ 51,656,874				\$ 37,979,874	\$ 524,758	\$ 3,367,623	-	\$ 41,872,255
9 My Home Energy Report	93,036	81,112	335,107,189	\$ 25,502,532	\$ 7,527,382	10.6%	73.5233682%		\$ 5,534,384		\$ 1,400,889		\$ 6,935,274
10 Total Residential Conservation and Behavioral Programs	111,847	102,129	467,681,767	\$ 118,277,254	\$ 59,184,255		NC Residential Peak Demand Allocation Factor		\$ 43,514,258	\$ 524,758	\$ 4,768,513	\$ 2,451,345	\$ 51,258,873
11 Power Manager®	481,410	37,481	-	\$ 83,384,154	\$ 19,895,473	10.6%	74.3563771%	47.0%	\$ 14,793,553		\$ 5,004,036	\$ (2,119,293)	\$ 14,530,620
12 Total Residential	583,257	139,610	467,681,767	\$ 201,661,408	\$ 79,079,729				\$ 58,307,811	\$ 524,758	\$ 9,772,548	\$ 332,052	\$ 65,789,493
	System kW Reduction - Summer Peak	System kW Reduction - Winter Peak	System Energy Reduction (kWh)	System NPV of Avoided Costs	Total Cost	Shared Savings %	NC Retail kWh Sales Allocation Factor		NC Allocated Total Cost	NC PRI	NC PPI	NC PPI Cap Reduction	NC Revenue Requirement
Non-Residential Programs													
EE Programs													
13 Non Residential Energy Efficient ITEE	-	-	15,307	\$ 2,525	\$ 6,941	10.6%	73.5233682%		\$ 5,104		\$ (344)		\$ 4,759
14 Non Residential Smart Saver Custom	4,590	4,590	32,169,842	\$ 20,103,301	\$ 10,349,514	10.6%	73.5233682%		\$ 7,609,311		\$ 760,159		\$ 8,369,470
15 Non Residential Smart Saver Custom Technical Assessments	316	316	2,763,999	\$ 1,566,844	\$ 740,439	10.6%	73.5233682%		\$ 544,395		\$ 64,406		\$ 608,801
16 Non Residential Smart Saver Energy Efficient Food Service Products	155	146	1,865,413	\$ 832,691	\$ 303,893	10.6%	73.5233682%		\$ 223,432		\$ 41,212		\$ 264,644
17 Non Residential Smart Saver Energy Efficient HVAC Products	5,000	4,992	27,110,980	\$ 20,024,436	\$ 5,805,515	10.6%	73.5233682%		\$ 4,268,410		\$ 1,108,148		\$ 5,376,558
18 Non Residential Smart Saver Energy Efficient Lighting Products	31,925	31,332	175,815,265	\$ 127,538,689	\$ 29,716,420	10.6%	73.5233682%		\$ 21,848,513		\$ 7,609,728		\$ 29,458,241
19 Non Residential Smart Saver Energy Efficient Process Equipment Product	259	262	1,737,823	\$ 1,007,474	\$ 373,943	10.6%	73.5233682%		\$ 274,936		\$ 49,374		\$ 324,310
20 Non Residential Smart Saver Energy Efficient Pumps and Drives Product	301	307	2,154,687	\$ 1,081,241	\$ 434,644	10.6%	73.5233682%		\$ 319,565		\$ 50,392		\$ 369,957
21 Smart Saver(R) Non Residential Performance Incentive Program	1,457	1,457	12,764,777	\$ 6,788,212	\$ 1,586,660	10.6%	73.5233682%		\$ 1,166,566		\$ 405,382		\$ 1,571,948
22 Small Business Energy Saver	11,706	11,226	61,580,154	\$ 39,702,935	\$ 13,027,318	10.6%	73.5233682%		\$ 9,578,123		\$ 2,078,958		\$ 11,657,081
23 Smart Energy in Offices	-	-	-	\$ -	\$ -	10.6%	73.5233682%		\$ -		\$ -		\$ -
24 Total for Non-Residential Conservation Programs	55,710	54,629	317,978,247	\$ 218,468,348	\$ 62,345,286		NC Non-Residential Peak Demand Allocation Factor		\$ 45,838,354	\$ -	\$ 12,167,415	\$ (3,228,936)	\$ 54,776,833
24 EnergyWise for Business	12,222	2,677	756,809	\$ 2,420,180	\$ 1,804,572	10.6%	74.3563771%		\$ 1,341,814		\$ 48,521		\$ 1,563,025
25 PowerShare®	330,914	307,750	-	\$ 56,852,292	\$ 13,093,567	10.6%	74.3563771%		\$ 9,735,902		\$ 3,448,965		\$ 14,822,522
26 Total for Non-Residential DSM Programs	343,136	310,427	756,809	\$ 59,272,473	\$ 14,898,138		74.3563771%	53.0%	\$ 11,077,716	\$ -	\$ 3,497,486	\$ (1,337,331)	\$ 16,385,547
27 Total Non Residential	398,846	365,056	318,735,056	\$ 277,740,820	\$ 77,243,425				\$ 56,916,070	\$ -	\$ 15,664,901	\$ (4,566,267)	\$ 71,162,380
28 Total All Programs	992,103	504,686	786,416,822	\$ 479,402,228	\$ 156,323,153				\$ 115,223,881	\$ 524,758	\$ 25,437,449	\$ (4,234,215)	\$ 136,951,873
				\$ -	\$ -								
(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages													
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak													
				total Costs	\$ 156,323,153	total PPI	\$ 35,181,963						
				Low Income	(8,826,241)	Low Income	(713,729)						
					\$ 147,496,913		\$ 34,468,234						
PPI to Cost Ratio							23.37%						

Line	Vintage 2018							Supplemental Total
	Residential	2018	2019	2020	2021	2022	2023	
1	Energy Efficiency Education	\$ 128,311	\$ 265,267	\$ 172,311	\$ -			\$ 565,889
2	Energy Efficient Appliances and Devices	4,282,358	9,200,784	5,975,763	-			19,458,905
3	HVAC Energy Efficiency	161,443	324,295	210,669	-			696,407
4	Low Income Energy Efficiency and Weatherization Assistance	154,376	340,042	220,844	-			715,262
5	Multi-Family Energy Efficiency	493,320	1,087,466	707,931	-			2,288,716
6	My Home Energy Report	15,751,701	-	-	-			15,751,701
7	Residential Energy Assessments	204,097	359,848	233,732	-			797,677
8	Total Lost Revenues	21,175,605	11,577,702	7,521,250	-	-	-	40,274,557
9	Found Residential Revenues *	-	-	-	-	-	-	-
10	Net Lost Residential Revenues	\$ 21,175,605	\$ 11,577,702	\$ 7,521,250	\$ -	\$ -	\$ -	\$ 40,274,557
	Non-Residential	2018	2019	2020	2021	2022	2023	Total
11	EnergyWise for Business	\$ 66,282	\$ 120,440	\$ 78,851	\$ -			\$ 265,573
12	Non Residential Energy Efficient ITEE	185	876	573	-			1,634
13	Non Residential Smart Saver Custom	462,774	773,838	502,673	-			1,739,285
14	Non Residential Smart Saver Custom Technical Assessments	212	866	564	-			1,642
15	Non Residential Smart Saver Energy Efficient Food Service Products	14,176	22,681	14,685	-			51,543
16	Non Residential Smart Saver Energy Efficient HVAC Products	50,245	116,425	75,664	-			242,334
17	Non Residential Smart Saver Energy Efficient Lighting Products	4,088,002	6,697,444	4,357,995	-			15,143,441
18	Non Residential Smart Saver Energy Efficient Process Equipment Products	6,501	10,497	6,820	-			23,818
19	Non Residential Smart Saver Energy Efficient Pumps and Drives Products	66,649	87,658	56,898	-			211,206
20	Small Business Energy Saver	1,776,069	3,461,673	2,256,564	-			7,494,306
21	Smart Saver(R) Non Residential Performance Incentive Program	20,243	84,754	54,723	-			159,720
22	Smart Energy in Offices	39,733	3,847	-	-			43,580
23	Total Lost Revenues	6,591,073	11,381,000	7,406,010	-	-	-	25,378,082
24	Found Non-Residential Revenues *	-	-	-	-	-	-	-
25	Net Lost Non-Residential Revenues	\$ 6,591,073	\$ 11,381,000	\$ 7,406,010	\$ -	\$ -	\$ -	\$ 25,378,082

\* Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Line	Vintage 2019							Supplemental	
	Residential		2018	2019	2020	2021	2022	2023	Total
26	Energy Efficiency Education	\$		148,216	\$ 254,224	\$ 105,637	\$ 86,483	\$	594,560
27	Energy Efficient Appliances and Devices			4,883,104	6,752,166	2,641,017	1,743,019		16,019,306
28	HVAC Energy Efficiency			192,394	296,145	135,559	89,189		713,288
29	Low Income Energy Efficiency and Weatherization Assistance			211,667	296,296	120,408	82,532		710,903
30	Multi-Family Energy Efficiency			600,390	796,103	301,062	207,294		1,904,850
31	My Home Energy Report			16,556,381	-	-	-		16,556,381
32	Residential Energy Assessments			195,756	270,434	106,756	72,468		645,414
33	Total Lost Revenues			22,787,908	8,665,368	3,410,439	2,280,986	-	37,144,701
34	Found Residential Revenues *			-	-	-	-	-	-
35	Net Lost Residential Revenues	\$		22,787,908	\$ 8,665,368	\$ 3,410,439	\$ 2,280,986	\$ -	37,144,701
Line	Non-Residential		2018	2019	2020	2021	2022	2023	Total
36	EnergyWise for Business	\$		113,643	\$ 187,710	\$ 84,670	\$ 56,057	\$	442,081
37	Non Residential Energy Efficient ITEE			334	441	140	109		1,023
38	Non Residential Smart Saver Custom			872,885	1,464,105	681,384	462,023		3,480,396
39	Non Residential Smart Saver Custom Technical Assessments			83,809	57,550	1,829	1,690		144,878
40	Non Residential Smart Saver Energy Efficient Food Service Products			13,606	19,258	7,918	5,324		46,107
41	Non Residential Smart Saver Energy Efficient HVAC Products			177,008	322,139	156,528	110,774		766,450
42	Non Residential Smart Saver Energy Efficient Lighting Products			3,673,309	4,791,594	1,762,560	1,151,903		11,379,366
43	Non Residential Smart Saver Energy Efficient Process Equipment Products			20,702	19,379	3,275	1,996		45,352
44	Non Residential Smart Saver Energy Efficient Pumps and Drives Products			28,698	43,328	19,663	13,062		104,751
45	Small Business Energy Saver			1,333,593	1,740,842	620,136	421,980		4,116,552
46	Smart Saver(R) Non Residential Performance Incentive Program			24,374	106,552	86,737	77,081		294,744
47	Total Lost Revenues			6,341,962	8,752,898	3,424,841	2,301,999	-	20,821,700
48	Found Non-Residential Revenues *			-	-	-	-	-	-
49	Net Lost Non-Residential Revenues	\$		6,341,962	\$ 8,752,898	\$ 3,424,841	\$ 2,301,999	\$ -	20,821,700

\* Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Line	Vintage 2020 Residential							Total
		2018	2019	2020	2021	2022	2023	
50	Energy Efficiency Education			\$ 87,646	\$ 209,855	\$ 211,157	\$ 136,097	\$ 644,755
51	Energy Efficient Appliances and Devices			2,918,372	4,427,019	4,459,740	2,004,594	\$ 13,809,724
52	HVAC Energy Efficiency			192,701	372,814	375,311	203,207	\$ 1,144,033
53	Low Income Energy Efficiency and Weatherization Assistance			62,151	68,772	69,291	22,399	\$ 222,613
54	Multi-Family Energy Efficiency			159,305	118,078	118,046	7,513	\$ 402,941
55	My Home Energy Report			17,075,171	-	-	-	\$ 17,075,171
56	Residential Energy Assessments			158,872	330,249	332,622	194,466	\$ 1,016,208
57	Total Lost Revenues		-	20,654,218	5,526,785	5,566,166	2,568,275	\$ 34,315,444
58	Found Residential Revenues *		-	-	-	-	-	\$ -
59	Net Lost Residential Revenues		\$ -	\$ 20,654,218	\$ 5,526,785	\$ 5,566,166	\$ 2,568,275	\$ 34,315,444
Line	Non-Residential							Total
		2018	2019	2020	2021	2022	2023	
60	EnergyWise for Business			\$ 76,498	\$ 111,934	\$ 113,213	\$ 54,549	\$ 356,195
61	Non Residential Energy Efficient ITEE			172	398	402	272	\$ 1,244
62	Non Residential Smart Saver Custom			328,409	735,651	743,178	454,548	\$ 2,261,786
63	Non Residential Smart Saver Custom Technical Assessments			18,501	21,576	22,086	7,362	\$ 69,526
64	Non Residential Smart Saver Energy Efficient Food Service Products			8,849	16,420	16,683	8,292	\$ 50,243
65	Non Residential Smart Saver Energy Efficient HVAC Products			139,598	418,157	422,374	293,356	\$ 1,273,485
66	Non Residential Smart Saver Energy Efficient Lighting Products			2,420,220	4,196,465	4,238,057	2,208,469	\$ 13,063,211
67	Non Residential Smart Saver Energy Efficient Process Equipment Products			30,248	30,693	30,909	1,599	\$ 93,449
68	Non Residential Smart Saver Energy Efficient Pumps and Drives Products			37,562	45,568	46,026	10,977	\$ 140,132
69	Small Business Energy Saver			796,192	1,418,351	1,433,061	763,151	\$ 4,410,755
70	Smart Saver(R) Non Residential Performance Incentive Program			90,607	131,908	135,520	43,385	\$ 401,420
71	Total Lost Revenues		-	3,946,856	7,127,120	7,201,507	3,845,961	\$ 22,121,445
72	Found Non-Residential Revenues *		-	-	-	-	-	\$ -
73	Net Lost Non-Residential Revenues		\$ -	\$ 3,946,856	\$ 7,127,120	\$ 7,201,507	\$ 3,845,961	\$ 22,121,445

\* Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Line	Vintage 2021 Residential							Supplemental Total
		2018	2019	2020	2021	2022	2023	
74	Energy Efficiency Education				200,130	370,966	370,966	\$ 942,061
75	Energy Efficient Appliances and Devices				1,442,046	2,511,364	2,511,364	\$ 6,464,774
76	Residential – Smart Saver Energy Efficiency Program				252,810	462,820	462,820	\$ 1,178,449
77	Low Income Energy Efficiency and Weatherization Assistance				61,632	142,429	142,429	\$ 346,491
78	Multi-Family Energy Efficiency				28,957	127,637	127,637	\$ 284,232
79	My Home Energy Report				17,258,649	-	-	\$ 17,258,649
80	Residential Energy Assessments				160,310	343,787	343,787	\$ 847,885
81	Total Lost Revenues		-	-	19,404,534	3,959,003	3,959,003	\$ 27,322,540
82	Found Residential Revenues *		-	-	-	-	-	\$ -
83	Net Lost Residential Revenues	\$	-	\$	-	\$	3,959,003	\$ 27,322,540

Line	Non-Residential							Total
		2018	2019	2020	2021	2022	2023	
84	EnergyWise for Business				\$ 54,555	\$ 100,662	\$ 100,662	\$ 255,878
85	Non Residential Energy Efficient ITEE				108	149	149	\$ 406
86	Non Residential Smart Saver Custom				554,154	1,297,497	1,297,497	\$ 3,149,148
87	Non Residential Smart Saver Energy Efficient Food Service Products				17,774	45,342	45,342	\$ 108,457
88	Non Residential Smart Saver Energy Efficient HVAC Products				614,754	1,040,195	1,040,195	\$ 2,695,143
89	Non Residential Smart Saver Energy Efficient Lighting Products				2,825,245	5,413,818	5,413,818	\$ 13,652,882
90	Non Residential Smart Saver Energy Efficient Process Equipment Products				9,090	35,234	35,234	\$ 79,558
91	Non Residential Smart Saver Energy Efficient Pumps and Drives Products				22,371	57,088	57,088	\$ 136,546
92	Small Business Energy Saver				898,833	1,927,206	1,927,206	\$ 4,753,244
93	Smart Saver(R) Non Residential Performance Incentive Program				35,712	85,850	85,850	\$ 207,412
94	Total Lost Revenues		-	-	5,032,594	10,003,040	10,003,040	\$ 25,038,674
95	Found Non-Residential Revenues *		-	-	-	-	-	\$ -
96	Net Lost Non-Residential Revenues	\$	-	\$	-	\$	10,003,040	\$ 25,038,674

\* Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Line	Vintage 2022 Residential							Supplemental	
		2017	2018	2019	2020	2021	2022	2023	Total
97	Energy Efficiency Education						212,630	394,983	\$ 607,613
98	Energy Efficient Appliances and Devices						2,106,950	3,988,025	\$ 6,094,974
99	Residential – Smart Saver Energy Efficiency Program						145,714	269,047	\$ 414,761
100	Low Income Energy Efficiency and Weatherization Assistance						240,306	449,666	\$ 689,973
101	Multi-Family Energy Efficiency						507,144	936,267	\$ 1,443,411
102	My Home Energy Report						17,381,990	-	\$ 17,381,990
103	Residential Energy Assessments						431,676	753,469	\$ 1,185,144
104	Total Lost Revenues	-	-	-	-	-	21,026,409	6,791,458	\$ 27,817,867
105	Found Residential Revenues *	-	-	-	-	-	-	-	\$ -
106	Net Lost Residential Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 21,026,409	\$ 6,791,458	\$ 27,817,867

Non-Residential		2017	2018	2019	2020	2021	2022	2023	Total
107	Non Residential Energy Efficient ITEE						\$ 2,132	\$ 3,935	\$ 6,067
108	Non Residential Smart Saver Custom						939,502	1,734,465	\$ 2,673,966
109	Non Residential Smart Saver Custom Technical Assessments						101,037	186,529	\$ 287,566
110	Non Residential Smart Saver Energy Efficient Food Service Products						36,317	67,047	\$ 103,364
111	Non Residential Smart Saver Energy Efficient HVAC Products						506,985	935,973	\$ 1,442,958
112	Non Residential Smart Saver Energy Efficient Lighting Products						4,189,330	7,734,148	\$ 11,923,479
113	Non Residential Smart Saver Energy Efficient Process Equipment Products						24,914	45,996	\$ 70,910
114	Non Residential Smart Saver Energy Efficient Pumps and Drives Products						58,634	108,248	\$ 166,882
115	Small Business Energy Saver						2,183,673	4,060,068	\$ 6,243,741
116	Smart Saver(R) Non Residential Performance Incentive Program						138,704	256,069	\$ 394,773
117	Total Lost Revenues	-	-	-	-	-	8,181,228	15,132,477	\$ 23,313,705
118	Found Non-Residential Revenues *	-	-	-	-	-	-	-	\$ -
119	Net Lost Non-Residential Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,181,228	\$ 15,132,477	\$ 23,313,705

\* Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Vintage 2023									
Line	Residential	2017	2018	2019	2020	2021	2022	2023	Total
120	Energy Efficiency Education							367,192	\$ 367,192
121	Energy Efficient Appliances and Devices							1,468,035	\$ 1,468,035
122	Residential – Smart Saver Energy Efficiency Program							202,306	\$ 202,306
123	Low Income Energy Efficiency and Weatherization Assistance							228,933	\$ 228,933
124	Multi-Family Energy Efficiency							513,283	\$ 513,283
125	My Home Energy Report							17,467,498	\$ 17,467,498
126	Residential Energy Assessments							436,907	\$ 436,907
127	Residential New Construction							462,348	\$ 462,348
128	Total Lost Revenues	-	-	-	-	-	-	21,146,502	\$ 21,146,502
129	Found Residential Revenues *	-	-	-	-	-	-	-	\$ -
130	Net Lost Residential Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	21,146,502	\$ 21,146,502
	Non-Residential	2017	2018	2019	2020	2021	2022	2023	Total
131	EnergyWise for Business							\$ 17,255	\$ 17,255
132	Non Residential Energy Efficient ITEE							329	\$ 329
133	Non Residential Smart Saver Custom							616,396	\$ 616,396
134	Non Residential Smart Saver Custom Technical Assessments							52,857	\$ 52,857
135	Non Residential Smart Saver Energy Efficient Food Service Products							41,666	\$ 41,666
136	Non Residential Smart Saver Energy Efficient HVAC Products							950,071	\$ 950,071
137	Non Residential Smart Saver Energy Efficient Lighting Products							4,341,628	\$ 4,341,628
138	Non Residential Smart Saver Energy Efficient Process Equipment Products							39,529	\$ 39,529
139	Non Residential Smart Saver Energy Efficient Pumps and Drives Products							50,829	\$ 50,829
140	Small Business Energy Saver							1,312,351	\$ 1,312,351
141	Smart Saver(R) Non Residential Performance Incentive Program							244,585	\$ 244,585
142	Total Lost Revenues	-	-	-	-	-	-	7,667,494	\$ 7,667,494
143	Found Non-Residential Revenues *	-	-	-	-	-	-	-	\$ -
144	Net Lost Non-Residential Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	7,667,494	\$ 7,667,494

\* Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Duke Energy Carolinas, LLC  
For the Period January 1, 2021 - December 31, 2021  
Docket Number E-7 Sub 1265  
Actual Program Costs for Vintage Years 2018 , 2019, 2020, 2021

		Carolinas System - 12 months Ended 12/31/2018	Carolinas System - 12 months Ended 12/31/2019	Carolinas System - 12 months Ended 12/31/2020	Carolinas System - 12 months Ended 12/31/2021
1	Residential Energy Assessments	2,836,229	3,153,757	3,358,880	3,326,179
2	My Home Energy Report	12,765,286	10,558,344	12,749,651	7,072,233
3	Energy Efficient Appliances and Devices	42,687,244	40,433,533	22,124,101	10,824,171
4	Residential – Smart Saver Energy Efficiency Progr	6,955,146	7,402,907	7,538,303	8,156,036
5	Appliance Recycle Program	-	-	-	-
	Income Qualified Energy Efficiency and				
6	Weatherization Assistance	6,490,735	7,344,325	2,787,490	4,634,161
7	Multi family Energy Efficiency	3,604,921	3,681,262	1,613,839	517,454
8	Energy Efficiency Education	1,992,260	1,644,077	1,113,485	1,147,501
9	Nonresidential Smart Saver Custom Energy Asses	407,293	296,006	330,629	293,539
10	Energy Management Information Systems	-	-	-	-
11	Non-Residential Smart Saver Custom	6,068,902	8,873,872	5,771,790	7,505,201
12	Non-Residential Smart Saver Performance Incent	479,610	785,165	751,724	342,826
13	Non-Residential Energy Efficient Food Service Prc	235,605	339,996	533,411	203,130
14	Non-Residential Smart Saver Energy Efficient HV/	1,620,748	2,208,364	2,450,713	4,899,800
15	Non-Residential Smart Saver Energy Efficient Ligh	25,872,380	20,834,766	13,098,851	17,924,291
16	Nonresidential Energy Efficient Pumps and Drives	277,785	189,172	167,464	202,615
17	Nonresidential Energy Efficient ITEE	36,875	44,335	15,179	74,699
18	Nonresidential Energy Efficient Process Equipmer	67,509	119,843	29,681	87,540
19	Smart Energy In Offices	219,748	-	-	-
20	Small Business Energy Saver	15,977,993	11,421,399	6,933,130	8,935,952
21	Business Energy Report	-	-	-	-
22	Power Manager	14,423,610	13,386,942	14,303,277	16,829,058
23	EnergyWise for Business	3,062,816	3,687,462	2,941,282	2,463,194
24	Power Share	12,922,977	13,022,816	12,082,697	13,583,912
25					

26	<b>Total Energy Efficiency &amp; Demand Side Pro</b>	<b>\$ 159,005,671</b>	<b>\$ 149,428,343</b>	<b>\$ 110,695,578</b>	<b>\$ 109,023,491</b>
					used to allocate invoices out by month paid
					used to allocate invoices out by month paid
					used to allocate invoices out by month paid

27	NC Allocation Factor for EE programs	72.7130507%	73.0903918%	73.2212736%	73.5233682%
28	NC Allocation Factor for DSM programs-Res	32.1574721%	34.1181040%	33.7163333%	34.9475492%
29	NC Allocation Factor for DSM programs-Nor	41.4712829%	40.1233224%	40.4790117%	39.4088278%

		NC Allocated - 12 Months Ended 12/31/2018	NC Allocated - 12 Months Ended 12/31/2019	NC Allocated - 12 Months Ended 12/31/2020	NC Allocated - 12 Months Ended 12/31/2021
30	Residential Energy Assessments	\$ 2,062,308	\$ 2,305,093	\$ 2,459,415	\$ 2,445,519
31	My Home Energy Report	\$ 9,282,029	\$ 7,717,135	\$ 9,335,457	\$ 5,199,744
32	Energy Efficient Appliances and Devices	\$ 31,039,197	\$ 29,553,027	\$ 16,199,549	\$ 7,958,295
33	Residential – Smart Saver Energy Efficiency	\$ 5,057,299	\$ 5,410,814	\$ 5,519,641	\$ 5,996,592
34	Appliance Recycle Program	\$ -	\$ -	\$ -	\$ -
35	Income Qualified Energy Efficiency and Wea	\$ 4,719,611	\$ 5,367,996	\$ 2,041,036	\$ 3,407,192
36	Multi family Energy Efficiency	\$ 2,621,248	\$ 2,690,649	\$ 1,181,674	\$ 380,449
37	Energy Efficiency Education	\$ 1,448,633	\$ 1,201,662	\$ 815,308	\$ 843,681
38	Nonresidential Smart Saver Custom Energy .	\$ 296,155	\$ 216,352	\$ 242,090	\$ 215,820
39	Energy Management Information Systems	\$ -	\$ -	\$ -	\$ -
40	Non-Residential Smart Saver Custom	\$ 4,412,884	\$ 6,485,948	\$ 4,226,178	\$ 5,518,076
41	Non-Residential Smart Saver Performance In	\$ 348,739	\$ 573,880	\$ 550,422	\$ 252,057
42	Non-Residential Energy Efficient Food Serv	\$ 171,315	\$ 248,504	\$ 390,570	\$ 149,348
43	Non-Residential Smart Saver Energy Efficien	\$ 1,178,495	\$ 1,614,102	\$ 1,794,444	\$ 3,602,498
44	Non-Residential Smart Saver Energy Efficien	\$ 18,812,597	\$ 15,228,212	\$ 9,591,146	\$ 13,178,542
45	Nonresidential Energy Efficient Pumps and I	\$ 201,986	\$ 138,267	\$ 122,620	\$ 148,969
46	Nonresidential Energy Efficient ITEE	\$ 26,813	\$ 32,404	\$ 11,114	\$ 54,921
47	Nonresidential Energy Efficient Process Equi	\$ 49,088	\$ 87,594	\$ 21,733	\$ 64,362
48	Smart Energy In Offices	\$ 159,785	\$ -	\$ -	\$ -
49	Small Business Energy Saver	\$ 11,618,086	\$ 8,347,945	\$ 5,076,526	\$ 6,570,013
50	Business Energy Report	\$ -	\$ -	\$ -	\$ -
51	Power Manager	\$ 9,778,895	\$ 10,268,601	\$ 9,888,075	\$ 11,489,414
52	EnergyWise for Business	\$ 2,416,251	\$ 2,664,815	\$ 2,324,090	\$ 1,988,733
53	Power Share	\$ 10,194,918	\$ 9,411,189	\$ 9,547,293	\$ 10,967,378
54					
55	<b>Total Energy Efficiency &amp; Demand Side Pro</b>	<b>\$ 115,896,335</b>	<b>\$ 109,564,190</b>	<b>\$ 81,338,380</b>	<b>\$ 80,431,604</b>



Duke Energy Carolinas, LLC  
January 2018 - December 2021 Actuals  
January 2022 - December 2023 Estimates  
Docket Number E-7, Sub 1265  
North Carolina Found Revenues

					Estimated KWH			Decision Tree Node
	2018	2019	2020	2021	2022	2023	Total	
Economic Development	507,965,880	285,918,000	330,562,641	159,451,000	-	-	1,283,897,521	Box 5 - exclude
Plug-in Electric Charging Station Pilot	-	-	-	-	-	-	-	Box 3 - exclude
Lighting								
Residential	62,832	48,249	33,562	37,786	37,786	37,786	258,001	Box 6 - include
Non Residential (Regulated)	67,443	105,681	130,447	170,265	170,265	170,265	814,366	Box 6 - include
MV to LED Credit - Residential (Regulated)	(150,968)	(113,648)	(50,351)	-	(83,771)	(93,425)	(492,163)	Box 6 - include
MV to LED Credit - Non-Residential (Regulated)	(248,852)	(232,984)	(367,126)	(335,262)	(586,397)	(653,974)	(2,424,596)	Box 6 - include
Total KWH	507,696,335	285,725,298	330,309,173	159,323,789	(462,117)	(539,348)	1,282,053,130	
Total KWH Included	(269,545)	(192,702)	(253,468)	(127,211)	(462,117)	(539,348)	(1,844,391)	
Total KWH Included (net of Free Riders 15%)	(229,113)	(163,797)	(215,448)	(108,129)	(392,800)	(458,446)	(1,567,733)	
Annualized Found Revenue - Non Residential	\$ (96,542)	\$ (69,401)	\$ (135,345)	\$ (102,594)	\$ (284,340)	\$ (334,372)	\$ (1,022,593)	
Annualized Found Revenue - Residential	\$ (59,309)	\$ (44,621)	\$ (12,066)	\$ 27,460	\$ (21,417)	\$ (27,568)	\$ (137,521)	
	2018	2019	2020	2021	2022	2023	Total	
Vintage 2014 - Non Res							-	
Vintage 2015 - Non Res	(13,108)						(13,108)	
Vintage 2016 - Non Res	(30,720)	(10,169)					(40,889)	
Vintage 2017 - Non Res	(47,791)	(47,791)	(21,240)	-			(116,823)	
Vintage 2018 - Non Res	(51,711)	(96,542)	(56,316)	-	-		(204,569)	
Vintage 2019 - Non Res		(24,424)	(54,495)	(27,392)	(19,040)	-	(125,351)	
Vintage 2020 - Non Res			(54,740)	(470,426)	(112,798)	(67,891)	(705,855)	
Vintage 2021 - Non Res				(37,627)	(102,594)	(102,594)	(242,814)	
Vintage 2022 - Non Res					(154,017)	(284,340)	(438,357)	
Vintage 2023 - Non Res						(181,118)	(181,118)	
Net Negative Found Revenues to Zero*	143,330	178,925	186,791	535,445	388,450	635,942	2,068,884	
Subtotal - Non Res	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Vintage 2014 - Res							-	
Vintage 2015 - Res	(17,981)						(17,981)	
Vintage 2016 - Res	(39,657)	-					(39,657)	
Vintage 2017 - Res	(50,953)	(32,706)	(14,824)	-			(98,484)	
Vintage 2018 - Res	(28,325)	(59,309)	(34,597)	-	-		(122,230)	
Vintage 2019 - Res		(18,413)	(34,847)	(17,075)	(11,862)	-	(82,197)	
Vintage 2020 - Res			(3,392)	(10,517)	(10,517)	(7,690)	(32,115)	
Vintage 2021 - Res				18,279	27,460	27,460	73,198	
Vintage 2022 - Res					(11,601)	(21,417)	(33,018)	
Vintage 2023 - Res						(14,933)	(14,933)	
Net Negative Found Revenues to Zero*	136,917	110,428	87,659	9,313	6,520	16,580	367,417	
Subtotal - Residential	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Total Found Revenues	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

\* Eliminates the inclusion of total negative found revenues at the Residential and Non-Residential level

Duke Energy Carolinas, LLC  
Estimate - January 1, 2023 - December 31, 2023  
Docket Number E-7, Sub 1265  
Projected Program/Portfolio Cost Effectiveness - Vintage 2023

Program	UCT	TRC	RIM	PCT
<b>Residential Programs</b>				
• Energy Education Program for Schools	1.31	1.35	0.33	15.97
• Energy Efficient Appliances & Devices	2.69	2.64	0.71	6.04
• Residential – Smart \$aver Energy Efficiency Program	1.26	1.04	0.70	1.69
• Income-Qualified EE Products & Services	0.81	0.81	0.51	2.13
• Multi-Family EE Products & Services	3.59	3.54	0.77	9.41
• My Home Energy Report	3.59	3.59	0.85	0.00
• Power Manager	4.45	9.28	4.45	0.00
• Residential Energy Assessments	1.57	1.52	0.52	21.92
• Residential New Construction	2.09	1.48	0.80	2.36
<b>Residential Total</b>	<b>2.70</b>	<b>2.84</b>	<b>1.07</b>	<b>5.00</b>
<b>Non-Residential Programs</b>				
• Custom Assessment & Incentive	2.07	1.16	0.83	2.07
• EnergyWise for Business	1.42	2.79	1.23	69.03
• Food Service Products	2.91	0.66	0.71	1.31
• HVAC	3.66	2.26	0.70	4.37
• Lighting	4.55	2.46	0.91	4.03
• Motors, Pumps & VFDs	2.64	1.88	0.75	3.67
• Non Res Information Technology	0.38	0.35	0.23	5.23
• Process Equipment	2.86	2.21	0.81	3.94
• Performance Incentive	4.54	1.27	0.98	1.85
• Small Business Energy Saver	3.23	1.93	0.98	2.88
• PowerShare	4.61	170.67	4.61	0.00
<b>Non-Residential Total</b>	<b>3.82</b>	<b>2.56</b>	<b>1.07</b>	<b>3.49</b>
<b>Overall Portfolio Total</b>	<b>3.25</b>	<b>2.67</b>	<b>1.07</b>	<b>3.96</b>

Duke Energy Carolinas  
Changes to DSM/EE Cost Recovery Vintage 2021 True Up January 1, 2021 - December 31, 2021  
Changes from Prior Filing Due to Application of M&V and Participation  
System kWh and kW Impacts Net Free Riders at the Plant

Residential Programs																	
Program Name	Filed in Docket E-7, Sub 1230		Filed in Docket E-7, Sub 1265		Overall Variance		E-7 Sub 1230	E-7 Sub 1265	Delta	Variance attributable to Participation	Variance attributable to Mix of Measures		Variance attributable to EM&V		Sum of Variances		
	kWh	kW	kWh	kW	kWh	kW			Participation	kWh	kW	kWh	kW	kWh	kW	kWh	kW
Energy Efficiency Education Program for Schools	7,951,567	997	7,013,162	(1,192)	(938,405)	(2,188)	29,354	13,894	(15,460)	(4,187,945)	(525)	-	-	3,249,540	(1,663)	(938,405)	(2,188)
Energy Efficient Appliances and Devices	56,621,851	9,790	51,700,635	8,813	(4,921,216)	(977)	1,563,048	2,404,963	841,915	(8,842,027)	(1,033)	3,661,861	1,107	258,950	(1,052)	(4,921,216)	(977)
Residential - Smart Saver Energy Efficiency Program	9,425,675	1,347	9,425,675	2,556	3,855,301	1,209	14,545	28,242	13,697	3,855,301	1,209	-	(0)	-	-	3,855,301	1,209
Income Qualified Energy Efficiency and Weatherization Assistance	8,977,504	1,635	2,545,882	493	(6,431,623)	(1,142)	12,214	2,377	(9,837)	(6,506,511)	(1,357)	161,900	221	(87,012)	(7)	(6,431,623)	(1,142)
Multi-Family Energy Efficiency	28,264,645	2,983	2,019,667	279	(26,244,978)	(2,704)	523,776	44,542	(479,234)	(26,100,289)	(2,741)	192,724	41	(337,413)	(5)	(26,244,978)	(2,704)
Energy Assessments	14,921,390	1,778	6,590,951	748	(8,330,439)	(1,030)	126,576	33,369	(93,207)	(8,330,543)	(1,030)	-	-	104	0	(8,330,439)	(1,030)
My Home Energy Report	342,160,803	94,985	336,292,411	93,380	(5,868,392)	(1,605)	1,408,963	1,376,708	(32,255)	(5,868,392)	(1,605)	-	-	-	-	(5,868,392)	(1,605)
PowerManager	-	658,987	-	456,664	-	(202,324)	620,406	442,013	(178,393)	-	447,229	-	(156,568)	-	(492,984)	-	(202,324)
Residential Programs Total	464,468,135	772,501	415,588,383	561,741	(48,879,752)	(210,760)	4,238,882	4,346,108	47,226	(55,980,406)	440,149	4,016,485	(155,198)	3,084,169	(495,711)	(48,879,752)	(210,760)
Non-Residential Programs																	
Program Name	Filed in Docket E-7, Sub 1230		Filed in Docket E-7, Sub 1265		Overall Variance		E-7 Sub 1230	E-7 Sub 1265	Delta	Variance attributable to Participation	Variance attributable to Mix of Measures		Variance attributable to EM&V		Sum of Variances		
	kWh	kW	kWh	kW	kWh	kW			Participation	kWh	kW	kWh	kW	kWh	kW	kWh	kW
Non-Residential Smart Saver Custom Technical Assessments	5,482,371	626	921,248	110	(4,561,123)	(516)	3,492	1	(3,491)	-	-	(4,561,123)	(516)	-	-	(4,561,123)	(516)
Non-Residential Smart Saver Custom	53,115,768	7,579	30,798,533	6,572	(22,317,235)	(1,007)	36,316	8,395	(27,921)	-	-	(22,317,235)	(1,007)	-	-	(22,317,235)	(1,007)
Non-Residential Smart Saver Energy Efficient Food Service Products	4,280,461	212	1,201,408	80	(3,079,053)	(132)	15,727	1,601	(14,125)	(2,469,866)	(77)	(755,164)	(64)	145,977	9	(3,079,053)	(132)
Non-Residential Smart Saver Energy Efficient HVAC Products	3,698,306	1,118	21,054,972	3,325	17,356,666	2,207	3,097,102	6,874,382	3,777,280	3,334,821	572	11,070,813	1,231	2,951,033	404	17,356,666	2,207
Non-Residential Smart Saver Energy Efficient Lighting Products	156,866,525	27,805	116,783,529	20,325	(40,082,995)	(7,480)	2,242,099	3,253,784	1,011,685	(53,340,941)	(9,487)	2,073,030	494	11,184,915	1,513	(40,082,995)	(7,480)
Non-Residential Smart Saver Energy Efficient Pumps and Drives Products	2,717,418	429	1,521,286	239	(1,196,131)	(190)	2,575	1,048	(1,527)	(1,511,792)	(239)	(72,806)	(11)	388,467	60	(1,196,131)	(190)
Non-Residential Energy Efficient ITEE	272,355	-	2,353	-	(270,002)	-	4,323	28	(4,295)	(270,591)	-	-	-	589	-	(270,002)	-
Non-Residential Smart Saver Energy Efficient Process Equipment Products	877,998	186	824,803	117	(53,195)	(69)	15,321	10,222	(5,099)	125,870	14	(317,078)	(105)	138,013	22	(53,195)	(69)
Non-Residential Smart Saver Performance Incentive	14,901,572	1,701	8,247,437	1,079	(6,654,135)	(622)	17,758,407	50	(17,758,357)	-	-	(6,654,135)	(622)	-	-	(6,654,135)	(622)
Smart Energy in Offices	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Small Business Smart Saver	50,790,447	9,404	38,560,812	7,011	(12,229,635)	(2,393)	47,000,000	35,655,347	(11,344,653)	(15,250,024)	(2,981)	1,919,855	410	1,100,534	178	(12,229,635)	(2,393)
Business Energy Report	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
EnergyWise for Business	2,557,568	20,801	1,436,361	11,564	(1,121,206)	(9,237)	23,266	13,272	(9,993)	(1,842,187)	115,253	-	-	720,981	(124,490)	(1,121,206)	(9,237)
PowerShare	-	344,454	-	335,086	-	(9,368)	324,287	317,887	(6,400)	-	-	-	(9,368)	-	-	-	(9,368)
Non-Residential Programs Total	295,560,789	414,316	221,352,744	385,509	(74,208,045)	(28,806)	70,522,915	46,136,016	(24,386,898)	(71,224,710)	103,057	(19,613,843)	(9,558)	16,630,508	(122,305)	(74,208,045)	(28,806)
Total Residential and Non-Residential Programs	760,028,924	1,186,817	636,941,127	947,250	(123,087,797)	(239,567)	74,821,797	50,482,125	(24,339,672)	(127,205,116)	543,205	(15,597,358)	(164,756)	19,714,678	(618,016)	(123,087,797)	(239,567)

NOTE - The actual per unit impacts are reflective of the following EM&amp;V reports:

Program Name As Filed	Docket	Report Reference	Effective Date
Income Qualified Energy Efficiency and Weatherization Assistance	E-7, Sub 1265	Duke Energy Carolinas Low Income Weatherization Program (2016-2018) Evaluation Report - Final	1/1/2019
PowerManager	E-7, Sub 1265	2019-2020 Power Manager Evaluation Report	1/1/2021
Residential - Smart Saver Energy Efficiency Program	E-7, Sub 1265	Duke Energy Carolinas & Duke Energy Progress Online Savings Store Program 2021 Evaluation Report - Final	Varies
Energy Efficiency Education Program for Schools	E-7, Sub 1265	K12 Education Program 2019-2020 Evaluation Report - Submitted to Duke Energy Carolinas and Duke Energy Progress	8/1/2020
Small Business Energy Saver	E-7, Sub 1265	EM&V Report for the Duke Energy Small Business Energy Saver Program 2019-2020	7/1/2020
EnergyWise for Business	E-7, Sub 1265	2020 EM&V Interim Report for the EnergyWise Business Program	3/1/2019

**Duke Energy Carolinas, LLC**  
**Shared Savings Incentive Calculation**  
**Docket Number E-7 Sub 1265**  
**Estimate January 1, 2023 - December 31, 2023**

		<u>System</u>
NPV of AC - Res EE <sup>1</sup>		\$ 111,543,961
NPV of AC - Income Qualified EE		6,733,294
NPV of AC - Non Res EE		218,468,348
NPV of AC - DSM		142,656,626
<b>Total NPV of Avoided Costs</b>	<b>A</b>	<b>\$ 479,402,228</b>
Program Costs - Res EE <sup>1</sup>		\$ 50,358,015
Program Costs - Income Qualified EE		8,826,241
Program Costs - Non Res EE		62,345,286
Program Costs - DSM		34,793,612
<b>Total Program Costs</b>	<b>B</b>	<b>\$ 156,323,153</b>
<b>Net Savings</b>	<b>C=A-B</b>	<b>\$ 323,079,075</b>
<b>Sharing Percentage</b>	<b>D</b>	<b>10.60%</b>
Shared Savings - Res EE <sup>1</sup>		\$ 6,485,710
Shared Savings - PRI Res EE <sup>2</sup>		713,729
Shared Savings - Non Res EE		16,549,045
Shared Savings - DSM		11,433,480
<b>Total Shared Savings</b>	<b>E=(A-B)*D</b>	<b>\$ 35,181,963</b>

- 1) Excludes AC and Program Costs associated with Income Qualified Energy Efficiency and Weatherization Assistance programs.  
2) Includes the Res EE Programs associated with Income Qualified Energy Efficiency and Weatherization Assistance.  
These programs earn a PRI, Program Return Incentive, calculated on the NPV of Avoided Cost.