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May 11, 2020

VIA ELECTRONIC FILING

Ms. Kimberley A. Campbell 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 1230

Dear Ms. Campbell:

Enclosed for filing is Duke Energy Carolinas, LLC's ("DEC") Supplemental Testimony and Supplemental Exhibits of Carolyn T. Miller and Supplemental Exhibits of Robert P. Evans for filing in connection with the referenced matter. These Supplemental Exhibits reflect adjustments in calculations that are further detailed in the Supplemental Testimony of Carolyn T. Miller. As a result of these adjustments, some of the proposed DSM/EE rates have changed from those filed in the Company's Application in this docket.

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

Sincerely,

Kendrick C. Fentress

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Enclosures

cc: Parties of Record

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-7, SUB 1230

In the Matter of)	
Application of Duke Energy Carolinas, LLC) SUPPLEMENTA	L
for Approval of Demand-Side Management) TESTIMONY O	F
and Energy Efficiency Cost Recovery Rider) CAROLYN T. MILLE	R FOR
Pursuant to N.C. Gen. Stat. § 62-133.9 and) DUKE ENERGY CARC	LINAS,
Commission Rule R8-69) LLC	

1	1 0	PLEASE	STATE YOUR	NAME AND	RUSINESS	ADDRESS
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- 2 A. My name is Carolyn T. Miller. My business address is 550 South Tryon
- 3 Street, Charlotte, North Carolina.

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

- 5 A. I am a Rates Manager for Duke Energy Carolinas, LLC ("DEC" or the
- 6 "Company").
- 7 Q. DID YOU PREVIOUSLY FILE DIRECT TESTIMONY IN SUPPORT
- 8 OF DEC'S APPLICATION IN THIS DOCKET?
- 9 A. Yes.
- 10 Q. WHAT IS THE PURPOSE OF YOUR SUPPLEMENTAL
- 11 TESTIMONY?
- 12 A. The purpose of my supplemental testimony is to support the filing of
- Supplemental Exhibits that reflect revisions to Miller Exhibits 1, 2, 3, 4, 6 and
- 7 and Evans Exhibits 1, 2 and 3 filed February 25, 2020 in this proceeding.
- 15 These revisions are due to three corrections:
- 1. Updates to lost revenues based on Evaluation, Measurement
- and Verification ("EM&V") adjustments for Vintages 2018, 2019 and 2021.
- 18 2. Adjustments to Vintage 2019 program costs resulting from the
- 19 Public Staff of the North Carolina Utilities Commission's ("Public Staff")
- program cost audit.
- 21 3. Inclusion of Vintage 2016 lost revenues due to inadvertent
- omission of exhibits from original filing.

1	Q.	WHY IS THE COMPANY UPDATING LOST REVENUE AND PPI
2		FOR VINTAGES 2018, 2019 AND 2021?
3	A.	As a result of its internal review process, the Company determined that one
4		EM&V update was necessary. The update is a result of an incorrect
5		calculation of first-year in-service rate components for LEDs, showerheads
6		and HVAC filters in the NES Evaluation Report dated July 1, 2017 - June 30
7		2018. The result of this adjustment is a decrease in lost revenue of (\$34,729)
8		The Public Staff was notified of this necessary update to the NES program
9		Supporting Supplemental Evans Exhibit 2 reflecting the adjustment is
10		attached and subject to final Public Staff review.
11	Q.	WHY IS THE COMPANY REVISING VINTAGE 2019 PROGRAM
12		COSTS?
13	A.	During the course of the Public Staff's audit of Vintage 2019 program costs
14		the Public Staff discovered that certain corrections to the 2018 program cos
15		audit that were entered into the general ledger in 2019 had not been removed
16		This results in a reduction of system level program cost expenses in the
17		amount of \$992,045.69, and an increase of PPI (Program Performance
18		Incentives) in the amount of \$83,560. The Company is revising Evans Exhibit
19		1, page 3 and Evans Exhibit 3, page 1 to reflect both of these adjustments.
20	Q.	WHY IS THE COMPANY INCLUDING VINTAGE 2016 IN RIDER 12?
21	A.	The Company determined that Vintage 2016 had been inadvertently excluded
22		from the original Rider 12 filing. A modification was made as part of Docke
23		No. E-7, Sub 1192 in the calculation of how much lost revenue is included in

kWh sales for the test period of a rate case. Non-residential lost revenues associated with the test period (twelve months ending December 31, 2016) of the Company's general rate case proceeding in Docket No. E-7, Sub 1146 were adjusted based on specific enrollment dates, and a portion of these lost revenues was removed from the prospective period as of August 1, 2018 and included in base rates. The remaining portion of lost revenues should have been included in calendar year 2019 for Vintage 2016. Although there were no changes to residential lost revenue or the non-residential Vintage 2016 DSM calculation, the 2016 revenues collected have been incorporated into the exhibits and any applicable interest has been calculated. Miller Exhibit 2, page 1a, Miller Exhibit 3, pages 13-16 and Evans Exhibit 2, page 6 reflect the inclusion of those lost revenues. In addition, Miller Exhibits 4 and 6 have been updated to include 2016 revenues and the 2016 forecast with opt-outs.

Q. HOW DO THESE CHANGES IMPACT DEC'S REQUESTED RATES?

15 A. As a result of these changes, the following rates will be impacted:

Description	Filed Rate	Revised Rate
Residential EMF Rate	0.1046	0.1011
Non-residential Vintage Year EE 2016 EMF Rate	0.0000	0.0193
Non-residential Vintage Year DSM 2016 EMF Rate	0.0000	(0.0001)
Non-residential Vintage Year DSM 2019 EMF Rate	0.0018	0.0019

17 Q. WHAT SUPPLEMENTAL EXHIBITS WILL BE FILED IN

1		CONJUNCTION WITH YOUR SUPPLEMENTAL TESTIMONY?
2	A.	Only the exhibits impacted as a result of the changes outlined above will be
3		re-filed as Supplemental Exhibits. A description of the specific pages and
4		contents that have been revised is provided below:
5		• Supplemental Miller Exhibit 1: Summary of Rider EE Exhibits
6		and Factors
7		• Supplemental Miller Exhibit 2, page 1a: Vintage 2016 True-up of
8		Year 1, Year 2, Year 3 and Year 4 Rate Calculation
9		• Supplemental Miller Exhibit 2, page 2: Vintage 2018 True-up of
10		Year 1 and Year 2 Rate Calculation
11		• Supplemental Miller Exhibit 2, page 3: Vintage 2019 True-up of
12		Year 1 rate Calculation
13		• Supplemental Miller Exhibit 2, page 5: Vintage 2021 Estimated
14		Program Costs, Earned Incentive and Lost Revenues
15		• Supplemental Miller Exhibit 3, pages 5 through 16: Vintage 2018,
16		2019 and 2016 Interest Calculations
17		• Supplemental Miller Exhibit 4: DSM/EE Actual Revenues
18		Collected 2016-2019 and Estimated 2020 Collections
19		• Supplemental Miller Exhibit 6: Forecasted 2021 kWh Sales for
20		Rate period for Vintage Years 2016-2021
21		• Supplemental Miller Exhibit 7: Revised Tariff Sheet
22		• Supplemental Evans Exhibit 1, page 3: Vintage 2019 Load
23		Impacts and Estimated Revenue Requirements

- 1 Supplemental Evans Exhibit 2, pages 2, 3, 5 and 6: North Carolina 2 Net Lost Revenue Estimates for Vintages 2016, 2018, 2019 and 3 2021 Supplemental Evans Exhibit 3, page 1: Carolinas System Level 4 Program Costs Years 2017 through 2019 5 6 Q. WHAT **ARE** THE **FINAL RATES** REQUESTED THE
- 6 Q. WHAT ARE THE FINAL RATES REQUESTED IN THE
 7 APPLICATION OF DEC FOR APPROVAL OF ITS DSM/EE RIDER 12
 8 FOR 2021 AS A RESULT OF THESE REVISIONS?
- 9 A. Pursuant to the provisions of N.C. Gen. Stat. § 62-133.9 and Commission
 10 Rule R8-69, the Company requests Commission approval of the following
 11 annual billing adjustments (all shown on a cents per kWh basis, including
 12 gross receipts tax and regulatory fee):

13

Residential Billing Factors	¢/kWh
Residential Billing Factor for Rider 12 Prospective Components	0.4184
Residential Billing Factor for Rider 12 EMF Components	0.1011

14

Non-Residential Billing Factors for Rider 12 Prospective Components	¢/kWh
Vintage 2018 EE Participant	0.0137
Vintage 2019 EE Participant	0.0687
Vintage 2020 EE Participant	0.0612
Vintage 2021 EE Participant	0.3522
Vintage 2021 DSM Participant	0.1200

1

Non-Residential Billing Factors EMF Component	¢/kWh
Vintage 2019 EE Participant	(0.0225)
Vintage 2019 DSM Participant	0.0019
Vintage 2018 EE Participant	(0.0049)
Vintage 2018 DSM Participant	(0.0014)
Vintage 2017 EE Participant	0.0342
Vintage 2017 DSM Participant	0.0000
Vintage 2016 EE Participant	0.0193
Vintage 2016 DSM Participant	(0.0001)

2

3 Q. DOES THIS CONCLUDE YOUR PRE-FILED SUPPLEMENTAL

4 **TESTIMONY?**

5 A. Yes.

Duke Energy Carolinas, LLC DSM/EE Cost Recovery Rider 12 Docket Number E-7 Sub 1230 Exhibit Summary of Rider EE Exhibits and Factors

Residential Billing Factor for Rider 12 True-up (EMF) Components

	Residential Billing Factor for Rider 12 True-up (EMF) Components			
Line 1 2 3 4	Year 2016 EE/DSM True-up (EMF) Revenue Requirement Year 2017 EE/DSM True-Up (EMF) Revenue Requirement Year 2018 EE/DSM True-Up (EMF) Revenue Requirement Year 2019 EE/DSM True-Up (EMF) Revenue Requirement	Miller Exhibit 2, pg 1a, Line 15 Miller Exhibit 2 pg.1 Line 15 Miller Exhibit 2 pg 2 Line 15 Miller Exhibit 2 pg 3 Line 15	\$	(57,239) (4,091,589) 2,645,710 23,835,420
5	Total True-up (EMF) Revenue Requirement	Sum Lines 1-3	\$	22,332,301
6	Projected NC Residential Sales (kWh) for rate period	Miller Exhibit 6 pg. 1, Line 1	ş	22,092,324,452
7	EE/DSM Revenue Requirement EMF Residential Rider EE (cents per kWh)	Line 4 / Line 5 * 100		0.1011
	Residential Billing Factor for Rider 12 Prospective Components			
8	Vintage 2018 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg. 2, Line 15		
9	Vintage 2019 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg. 3, Line 15		5,292,331
10	Vintage 2020 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg. 4, Line 1		4,495,479
11	Vintage 2021 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg 5, Line 11	_	82,636,375
12 13	Total Prospective Revenue Requirement Projected NC Residential Sales (kWh) for rate period	Sum Lines 7-10 Miller Exhibit 6 pg. 1, Line 1	\$	92,424,185 22,092,324,452
14	EE/DSM Revenue Requirement Prospective Residential Rider EE (cents per kWh)	Line 11 / Line 12 * 100		0.4184
	Total Revenue Requirements in Rider 12 from Residential Customers			
15	Total True-up (EMF) Revenue Requirement	Line 4	\$	22,332,301
16	Total Prospective Revenue Requirement	Line 11		92,424,185
17	Total EE/DSM Revenue Requirement for Residential Rider EE	Line 14 + Line 15	\$	114,756,486
18	Total EE/DSM Revenue Requirement for Residential Rider EE (cents per kWh)	Line 6 + Line 13		0.5195
	Non-Residential Billing Factors for Rider 12 True-up (EMF) Components			
19	Vintage Year 2016 EE True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 1a, Line 25	\$	3,217,376
20	Projected Year 2016 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 Line 4		16,670,610,353
21	EE Revenue Requirement Year 2016 EMF Non-Residential Rider EE (cents per kWh)	Line 18/Line 19 * 100		0.0193
22	Vintage Year 2016 DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 1a, Line 35	\$	(18,608)
23	Projected Year 2016 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 Line 5		16,964,126,808
24	DSM Revenue Requirement Year 2016 EMF Non-Residential Rider EE (cents per kWh)	Line 21/Line 22 * 100		(0.0001)
25	Vintage Year 2017 EE True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 1, Line 25	\$	5,650,795
26	Projected Year 2017 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 Line 4		16,498,870,944
27	EE Revenue Requirement Year 2017 EMF Non-Residential Rider EE (cents per kWh)	Line 18/Line 19 * 100		0.0342
28	Vintage Year 2017 DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 1, Line 35	\$	6,539
29	Projected Year 2017 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 Line 5		16,933,914,400
30	DSM Revenue Requirement Year 2017 EMF Non-Residential Rider EE (cents per kWh)	Line 21/Line 22 * 100		-
31	Vintage Year 2018 EE True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 2, Line 25	\$	(784,173)
32	Projected Year 2018 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 Line 6		15,929,504,199
33	EE Revenue Requirement Year 2018 EMF Non-Residential Rider EE (cents per kWh)	Line 24/Line 25 * 100		(0.0049)
34	Vintage Year 2018 DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 2, Line 35	\$	(243,015)
35 36	Projected Year 2018 DSM Participants NC Non-Residential Sales (kwh) for rate period DSM Reviews Requirement Year 2018 FMF Non-Residential Biday FF (contrary live)	Miller Exhibit 6 Line 7		16,832,538,740
36	DSM Revenue Requirement Year 2018 EMF Non-Residential Rider EE (cents per kWh)	Line 27/Line 28 * 100		(0.0014)
37	Vintage Year 2019 EE True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 3, Line 25	\$	(3,527,723)
38	Projected Year 2019 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 Line 8		15,707,415,542
39	EE Revenue Requirement Year 2019 EMF Non-Residential Rider EE (cents per kWh)	Line 30/Line 31 * 100		(0.0225)
40	Vintage Year 2019 DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg. 3, Line 35	\$	312,940
41	Projected Year 2019 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 Line 9		16,897,018,794
42	DSM Revenue Requirement Year 2019 EMF Non-Residential Rider EE (cents per kWh)	Line 33/Line 34 * 100		0.0019

Non-Residential Billing Factors for Rider 12 Prospective Components

43 44 45	Vintage Year 2018 EE Prospective Amounts Revenue Requirement Projected Program Year 2018 EE Participants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Vintage 2018 Prospective Component for Non-Residential Rider EE (cents per kWh)	Miller Exhibit 2 pg. 2, Line 25 Miller Exhibit 6 Line 6 Line 36/Line 37 * 100	\$ 2,182,027 15,929,504,199 0.0137
46 47 48	Vintage Year 2019 EE Prospective Amounts Revenue Requirement Projected Vintage 2019 EE Participants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Vintage 2019 Prospective Component for Non-Residential Rider EE (cents per kWh)	Miller Exhibit 2 pg. 3, Line 25 Miller Exhibit 6 Line 8 Line 39/Line 40 * 100	\$ 10,794,655 15,707,415,542 0.0687
49 50 51	Vintage Year 2020 EE Prospective Amounts Revenue Requirement Projected Vintage 2020 EE Participants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Vintage 2020 Prospective Component for Non-Residential Rider EE (cents per kWh)	Miller Exhibit 2 pg. 4, Line 4 Miller Exhibit 6 Line 10 Line 42/Line 43 * 100	\$ 9,376,721 15,330,345,599 0.0612
52 53 54	Vintage Year 2021 EE Prospective Amounts Revenue Requirement Projected Vintage 2021 EE Participants NC Non-Residential Sales (kwh) for rate period EE Revenue Requirement Vintage 2021 Prospective Component for Non-Residential Rider EE (cents per kWh)	Miller Exhibit 2 pg. 5, Line 18 Miller Exhibit 6 Line 12 Line 45/Line 46 * 100	\$ 53,990,117 15,330,345,599 0.3522
55 56 57	Vintage Year 2021 DSM Prospective Amounts Revenue Requirement Projected Vintage 2021 DSM Participants NC Non-Residential Sales (kwh) for rate period DSM Revenue Requirement Vintage 2021 Prospective Component for Non-Residential Rider EE (cents per kWh) Total EMF Rate Total Prospective Rate	Miller Exhibit 2 pg. 5, Line 25 Miller Exhibit 6 Line 13 Line 48/Line 49 * 100	\$ 20,278,628 16,898,362,794 0.1200 0.0265 0.6158

Total Revenue Requirements in Rider 12 from Non-Residential Customers

58	Vintage Year 2016 EE True-up (EMF) Revenue Requirement	Line 19	3,217,376
58	vintage rear 2016 EE True-up (EMF) Revenue Requirement	Line 19	3,217,370
59	Vintage Year 2016 DSM True-up (EMF) Revenue Requirement	Line 22	(18,608)
60	Vintage Year 2017 EE True-up (EMF) Revenue Requirement	Line 25	5,650,795
61	Vintage Year 2017 DSM True-up (EMF) Revenue Requirement	Line 28	6,539
62	Vintage Year 2018 EE True-up (EMF) Revenue Requirement	Line 31	(784,173)
63	Vintage Year 2018 DSM True-up (EMF) Revenue Requirement	Line 34	(243,015)
64	Vintage Year 2019 EE True-up (EMF) Revenue Requirement	Line 37	(3,527,723)
65	Vintage Year 2019 DSM True-up (EMF) Revenue Requirement	Line 40	312,940
66	Vintage Year 2018 EE Prospective Amounts Revenue Requirement	Line 43	2,182,027
67	Vintage Year 2019 EE Prospective Amounts Revenue Requirement	Line 46	10,794,655
68	Vintage Year 2020 EE Prospective Amounts Revenue Requirement	Line 49	9,376,721
69	Vintage Year 2021 EE Prospective Amounts Revenue Requirement	Line 52	53,990,117
70	Vintage Year 2021 DSM Prospective Amounts Revenue Requirement	Line 55	20,278,628
	Total Non-Residential Revenue Requirement in Rider 12	Sum (Lines 58-70)	101,236,279

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 True Up of Year 1, 2 and 3 for Vintage Year 2016

RESIDENTIAL Energy Efficiency Programs

			E-7 Sub 1073	E-7 Sub 1105	E-7 Sub 1130	E-7 Sub 1130	F 7 C b 44 C 4	E-7 Sub 1192		
			E-7 Sub 10/3	E-7 Sub 1105	E-7 Sub 1130	E-7 Sub 1130	E-7 Sub 1164	E-7 Sub 1192		1
			Rider 7 Original	Rider 8 Year 2	Rider 9 True up	Year 2016 Yr 3	Rider 10 True	Rider 11 True	Rider 12 True	
Lin	•	Reference	Estimate	Lost Revenues	(Year 1)	LR Estimate	up (Year 2)	Up (Year 3)	Up (Year 4)	Year 2016
1	Residential EE Program Cost	Evans Exhibit 1 pg. 2, Line 10 * NC Alloc. Factor	\$ 31,056,079		\$ 8,965,024		\$ (2)			\$ 40,021,101
2	Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 2, Line 10 * NC Alloc. Factor	2,392,652		4,361,799		(52,098)			6,702,353
3	Return on undercollection of Residential EE Program Costs	Miller Exhibit 3 pg 5			272,476		710,786	430,926	(47,227)	1,366,961
4	Total EE Program Cost and Incentive Components	Line 1 + Line 2 + line 3	33,448,731		13,599,299		658,686	430,926	(47,227)	48,090,415
5	Residential DSM Program Cost	Evans Exhibit 1 pg. 2, Line 11 * NC Alloc. Factor	10,613,016		(1,012,441)		0			9,600,575
6	Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 2, Line 11 * NC Alloc. Factor	2,887,418		(129,612)		(27,890)			2,729,916
7	Return on overcollection of Residential DSM Program Costs	Miller Exhibit 3 pg 6			(26,322)		(46,199)	(39,872)	(961)	(113,354)
8	Total DSM Program Cost and Incentive Components	Line 5 + Line 6 + Line 7	13,500,434		(1,168,375)		(74,089)	(39,872)	(961)	12,217,137
9	Total EE/DSM Program Cost and Incentive Components	Line 4 + Line 8	46,949,165		12,430,924		584,597	391,055	(48,188)	60,307,552
10	Revenue-related taxes and regulatory fees factor **	Miller Exhibit 2, pg. 7	1.001442		1.001402		1.001402	1.001352	1.001302	
11	Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 9 * Line 10	47,016,866		12,448,352		585,417	391,583	(48,251)	60,393,967
12	Residential Net Lost Revenues	Evans Exhibit 2 pg. 2	11,873,767	5,723,916	4,795,359	7,765,323	(3,299,616)	1,969,313		28,828,063
13	Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	58,890,633	5,723,916	17,243,711	7,765,323	(2,714,199)	2,360,897		89,222,030
14	Total Collected for Vintage Year 2016 (through estimated Rider 10)	Miller Exhibit 4 Line 2								89,279,269
15	Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12								\$ (57,239)
										0 440 5 100 4 5

See Miller Exhibit A for rate

NON-RESIDENTIAL Energy Efficiency Programs

		E-7 Sub 1073	E-7 Sub 1105	E-7 Sub 1130	E-7 Sub 1130	E-7 Sub 1164	E-7 Sub 1192	_	
		Rider 7 Original			Year 2016 Yr 3				
	Reference	Estimate	Lost Revenues	Year 1 True up	LR Estimate	up (Year 2)	Up (Year 3)	up (Year 4)	Year 2016
6 Non- Residential EE Program Cost	Evans Exhibit 1 pg. 2, Line 25 * NC Alloc. Factor	36,494,611		13,515,376		1			50,009,988
7 Non-Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 2, Line 25 * NC Alloc. Factor	10,105,721		4,261,607		(353,368)			14,013,960
B Return on undercollection of Non-residential EE Program Costs	Miller Exhibit 3 page 7			378,293		1,051,375	731,576	86,133	2,247,377
9 Total EE Program Cost and Incentive Components	Line 16 + Line 17 + Line 18	46,600,332		18,155,276		698,008	731,576	86,133	66,271,325
Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 7	1.001442		1.001402		1.001402	1.001352	1.001302	
1 Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20	46,667,530		18,180,730		698,987	732,565	86,245	66,366,056
2 Non-Residential Net Lost Revenues	Evans Exhibit 2 pg. 2	4,745,315	8,309,444	2,524,047	13,375,187	(4,085,026)	6,383,046	4,022,482	35,274,494
3 Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	51,412,845	8,309,444	20,704,776	13,375,187	(3,386,039)	7,115,611	4,108,727	101,640,551
4 Total Collected for Vintage Year 2016 (through estimated Rider 10)	Miller Exhibit 4 Line 8								98,423,175
5 Non-Residential EE Revenue Requirement	Line 23 - Line 24								3,217,376
6 Projected NC Residential Sales (kWh)	Miller Exhibit 6, Line 6								16,670,610,353
7 NC Non-Residential EE billing factor (Cents/kWh)	Line 25/Line 26*100								0.0193

DSM Programs

25 26 27

		<u>Reference</u>
28	Non-Residential DSM Program Cost	Evans Exhibit 1, pg. 2 Line 26 * NC Alloc. Factor
29	Non-Residential DSM Earned Utility Incentive	Evans Exhibit 1, pg. 2 Line 26 * NC Alloc. Factor
30	Return on undercollection of Non-residential DSM Program Costs	Miller Exhibit 3 page 8
31	Total Non-Residential DSM Program Cost and Incentive Components	Line 28 + Line 29 + Line 30
32	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 7
33	Total Non-Residential DSM Revenue Requirement	Line 31 * Line 32
34	Total Collected for Vintage Year 2016 (through estimated Rider 10)	Miller Exhibit 4 Line 13
35	Non-Residential EE Revenue Requirement True-up Amount	Line 33- Line 34
36	Projected NC Non-Residential Sales (kWh)	Miller Exhibit 6, Line 7
37	NC Non-Residential DSM billing factor	Line 35/Line 36*100

E-7 Sub 1073	E-7 Sub 1130	E-7 Sub 1164	E-7 Sub 1192		
Rider 7 Original Estimate	Rider 9 True up	Rider 10 True Up	Rider 11 True Up (Year 3)	Rider 12 True Up (Year 4)	Year 2016
12,855,910	(1,261,413)	0			11,594,497
3,497,628	(167,059)	(33,683)			3,296,886
	1,759	3,420	(6,087)	(9,421)	(10,329)
16,353,538	(1,426,713)	(30,262)	(6,087)	(9,421)	14,881,055
1.001442	1.001402	1.001402	1.001352	1.001302	
16,377,120	(1,428,713)	(30,305)	(6,095)	(9,433)	14,902,573
					14,921,181
					(18,608)
					16,964,126,808
					(0.0001)

- Year 4 Projected Lost Revenue is not being requested in this filling because lost revenue through the test period of Docket E7 Sub XXXX was requested as part of base rates.
- ** Actual regulatory fee rate in effect in year of collection. May differ from original filed estimates.

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 True Up of Year 1, 2 and 3 Lost Revenues for Vintage Year 2017

RESIDENTIAL **Energy Efficiency Programs**

			E-7 Sub 1105	E-7 Sub 1130	E-7 Sub 1164	E-7 Sub 1164	E-7 Sub 1192	E-7 Sub 1192	E-7 Sub 1230	
			Rider 8 Year 1							
Line	-	Reference	Estimate	LR Estimate	up	3 Estimate	Up	LR Estimate	up	Year 2017
	Residential EE Program Cost Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 1, Line 10 * NC Alloc. Factor Evans Exhibit 1 pg. 1, Line 10 * NC Alloc. Factor	\$ 33,488,974 4,149,244		\$ 13,998,885 4,340,033		\$ - (250,931)		\$ -	\$ 47,487,859 8,238,346
3	Return on undercollection of Residential EE Program Costs	Miller Exhibit 3 pg 1			522,611		1,226,138		622,205	2,370,954
4	Total EE Program Cost and Incentive Components	Line 1 + Line 2 + line 3	37,638,218		18,861,529		975,207		622,205	58,097,159
5	Residential DSM Program Cost	Evans Exhibit 1 pg. 1, Line 11 * NC Alloc. Factor	10,258,751		(176,455)		-		-	10,082,296
6	Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 1, Line 11 * NC Alloc. Factor	2,837,134		89,061		-		-	2,926,195
7	Return on undercollection of Residential DSM Program Costs	Miller Exhibit 3 pg 2			15,015		12,882		7,019	34,916
8	Total DSM Program Cost and Incentive Components	Line 5 + Line 6 + Line 7	13,095,885		(72,379)		12,882		7,019	13,043,408
9	Total EE/DSM Program Cost and Incentive Components	Line 4 + Line 8	50,734,103		18,789,150		988,089		629,224	71,140,567
10	Revenue-related taxes and regulatory fees factor **	Miller Exhibit 2, pg. 6	1.001482		1.001402		1.001352		1.001302	
11	Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 9 * Line 10	50,809,291		18,815,493		989,425		630,044	71,244,252
12	Residential Net Lost Revenues	Evans Exhibit 2 pg. 2	12,699,119	4,202,002	6,456,129	8,904,587	2,572,270	1,751,061	(4,729,337)	31,855,831
13	Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	63,508,411	4,202,002	25,271,622	8,904,587	3,561,695	1,751,061	(4,099,293)	103,100,083
14	Total Collected for Vintage Year 2017 (through estimated Rider 10)	Miller Exhibit 4 Line 1								107,191,672
15	Total Residential EE/DSM Revenue Requirement	Line 13 - Line 14								\$ (4,091,589)

See Miller Exhibit A for rate

NON-RESIDENTIAL Energy Efficiency Programs

16	Non- R	tesidential	ΕE	Program	Cost

- 17 Non-Residential EE Earned Utility Incentive
- 18 Return on undercollection of Non-residential EE Program Costs
- 19 Total EE Program Cost and Incentive Components
- 20 Revenue-related taxes and regulatory fees factor
- 21 Total Non-Residential EE Program Cost and Incentive Revenue Requirements
- 22 Non-Residential Net Lost Revenues
- 23 Total Non-Residential EE Revenue Requirement
- 24 Total Collected for Vintage Year 2017 (through estimated Rider 10)
- 25 Non-Residential EE Revenue Requirement
- 26 Projected NC Residential Sales (kWh)
- 27 NC Non-Residential EE billing factor (Cents/kWh)

	E-7 Sub 1105	E-7 Sub 1130	E-7 Sub 1164	E-7 Sub 1164	E-7 Sub 1192	E-7 Sub 1192	E-7 Sub 1230	
Reference	Rider 8 Year 1 Estimate	Year 2017 Yr 2 LR Estimate	Rider 10 True	Year 2017 Year 3 Estimate	Rider 11 True Up	Year 2017 Yr 4 LR Estimate	Rider 12 True up	Year 2017
Evans Exhibit 1 pg. 1, Line 26 * NC Alloc. Factor	38,791,601		32,155,814					70,947,415
Evans Exhibit 1 pg. 1, Line 26 * NC Alloc. Factor	9,347,504		9,073,243		3,304,511		(0)	21,725,258
Miller Exhibit 3 page 3			1,588,185		2,709,383		1,615,334	5,912,902
Line 16 + Line 17 + Line 18	48,139,105		42,817,242		6,013,894		1,615,334	98,585,574
Miller Exhibit 2, pg. 6	1.001482		1.001402		1.001352		1.001302	
Line 19 * Line 20	48,210,447		42,877,271		6,022,025		1,617,437	98,727,180
Evans Exhibit 2 pg. 2	6,039,892	9,466,867	2,627,210	14,570,381	7,280,971	5,593,790	512,352	46,091,463
Line 21 + Line 22	54,250,339	9,466,867	45,504,481	14,570,381	13,302,996	5,593,790	2,129,789	144,818,644
Miller Exhibit 4 Line 6								139,167,848
Line 23 - Line 24								5,650,795
Miller Exhibit 6, pg. 1, Line 4								16,498,870,944
Line 25/Line 26*100								0.0342

DSM Programs

28	Non-Residential DSM Program Cost
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- 29 Non-Residential DSM Earned Utility Incentive
- 30 Return on undercollection of Non-residential DSM Program Costs
- 31 Total Non-Residential DSM Program Cost and Incentive Components
- 32 Revenue-related taxes and regulatory fees factor
- 33 Total Non-Residential DSM Revenue Requirement
- 34 Total Collected for Vintage Year 2017 (through estimated Rider 10)
- 35 Non-Residential EE Revenue Requirement True-up Amount
- 36 Projected NC Non-Residential Sales (kWh)
- 37 NC Non-Residential DSM billing factor

Reference Evans Exhibit 1, pg. 1 Line 28 * NC Alloc. Factor Evans Exhibit 1, pg. 1 Line 28 * NC Alloc. Factor Miller Exhibit 3 page 4 Line 28 + Line 29 + Line 30 Miller Exhibit 2, pg. 6 Line 31 * Line 32 Miller Exhibit 4 Line 10 Line 33- Line 34 Miller Exhibit 6 pg. 1, Line 5 Line 35/Line 36*100

E-7 Sub 1105	E-7 Sub 1164	E-7 Sub 1192	E-7 Sub 1230	
Rider 8 Year 1 Estimate	Rider 10 True Up	Rider 11 True Up	Rider 12 True up	Year 2017
13,389,985	(1,438,646)		-	11,951,339
3,703,101	(234,452)		-	3,468,649
-	4,761	4,266	2,401	11,428
17,093,086	(1,668,337)	4,266	2,401	15,431,416
1.001482	1.001402	1.001352	1.001302	
17,118,418	(1,670,676)	4,272	2,404	15,454,418
				15,447,879
				6,539
				16,933,914,400
				-

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

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Year 4 Lost Revenue and True Up of Year 1 and Year 2 for Vintage Year 2018

RESIDENTIAL Energy Efficiency Programs

Line		Reference	Year 2018 LR Estin	
		•		
1	Residential EE Program Cost	Evans Exhibit 1 pg. 2, Line 10 * NC Alloc. Factor		
2	Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 2, Line 10 * NC Alloc. Factor		
3	Return on undercollection of Residential EE Program Costs	Miller Exhibit 3 pg 5		
4	Total EE Program Cost and Incentive Components	Line 1 + Line 2 + line 3		
5	Residential DSM Program Cost	Evans Exhibit 1 pg. 2, Line 11 * NC Alloc. Factor		
6	Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 2, Line 11 * NC Alloc. Factor		
7	Return on undercollection of Residential DSM Program Costs	Miller Exhibit 3 pg 6		
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 **	Miller Exhibit 2, pg. 6		
11	Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 9 * Line 10		
12	Residential Net Lost Revenues	Evans Exhibit 2 pg. 3	\$	
13	Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12		-
14	Total Collected for Vintage Year 2018 (through estimated Rider 10)	Miller Exhibit 4 Line 2		
15	Total Residential EE/DSM Revenue Requirement	Line 13 - Line 14	\$	-
	Note: No prospective Year 4 lost revenue is included in this exhibit because the rate case	test period was extended for residential customers.		

NON-RESIDENTIAL Energy Efficiency Programs

			Year 2018 Yr 4
		Reference	LR Estimate
16	Non- Residential EE Program Cost	Evans Exhibit 1 pg. 2, Line 26 * NC Alloc. Factor	
17	Non-Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 2, Line 26 * NC Alloc. Factor	
18	Return on undercollection of Non-residential EE Program Costs	Miller Exhibit 3 page 6	
19	Total EE Program Cost and Incentive Components	Line 16 + Line 17 + Line 18	
20	Revenue-related taxes and regulatory fees factor	Miller 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. 3	2,182,027
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	2,182,027
24	Total Collected for Vintage Year 2018 (through estimated Rider 10)	Miller Exhibit 4 Line 7	
25	Non-Residential EE Revenue Requirement	Line 23 - Line 24	2,182,027
26	Projected NC Residential Sales (kWh)	Miller Exhibit 6, Line 6	15,929,504,199
27	NC Non-Residential EE billing factor (Cents/kWh)	Line 25/Line 26*100	0.0137

NC Non-Residential EE billing factor (Cents/kWh)

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

DSM Programs

		Reference
		Reference
28	Non-Residential DSM Program Cost	Evans Exhibit 1, pg. 2 Line 28 * NC Alloc. Factor
29	Non-Residential DSM Earned Utility Incentive	Evans Exhibit 1, pg. 2 Line 28 * NC Alloc. Factor
30	Return on undercollection of Non-residential DSM Program Costs	Miller Exhibit 3 page 8
31	Total Non-Residential DSM Program Cost and Incentive Components	Line 28 + Line 29 + Line 30
32	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 6
33	Total Non-Residential DSM Revenue Requirement	Line 31 * Line 32
34	Total Collected for Vintage Year 2018 (through estimated Rider 10)	Miller Exhibit 4 Line 11
35	Non-Residential EE Revenue Requirement True-up Amount	Line 33- Line 34
36	Projected NC Non-Residential Sales (kWh)	Miller Exhibit 6 Line 7
37	NC Non-Residential DSM billing factor	Line 35/Line 36*100

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

		E-7 Sub 1230	E-7 Sub 1192	E-7 Sub 1192	E-7 Sub 1164	E-7 Sub 1130
Year 2018		Rider 12 True	Year 2018 Yr 3 LR Estimate	Rider 11 True	Year 2018 Yr 2 LR Estimate	Rider 9 Year 1 Estimate
Tear 2018		up	LK Estimate	up	LK Estimate	Estimate
56,230,326	s	\$ (0)		\$ 14,606,717		\$ 41,623,609
	,					
9,805,981		140,649		4,154,068		5,511,264
1,269,390		1,024,850		244,540		
67,305,696		1,165,498		19,005,325		47,134,873
9,778,895		0		(124,235)		9,903,130
2,581,559		(5,581)		17,215		2,569,925
(69,510)		(40,884)		(28,626)		
12,290,944		(46,465)		(135,646)		12,473,055
79,596,641		1,119,034		18,869,679		59,607,928
		1.001302		1.001352		1.001402
79,707,180		1,120,491		18,895,191		59,691,498
38,051,011		1,534,156	9,715,212	894,901	6,294,025	19,612,717
117,758,191		2,654,647	9,715,212	19,790,092	6,294,025	79,304,216
115,112,481						
2,645,710	\$					

See Miller Exhibit A for rate

	E-7 Sub 1230	E-7 Sub 1192	E-7 Sub 1192	E-7 Sub 1130	E-7 Sub 1105
Year 2018	Rider 12 True up	Year 2018 Yr 3 LR Estimate	Rider 11 True up	Year 2018 Yr 2 LR Estimate	Rider 9 Year 1 Estimate
37,275,9	0		(3,317,005)		40,592,949
14,415,8	(25,396)		2,818,045		11,623,199
1,053,3	592,305		461,049		
52,745,1	566,910		(37,911)		52,216,148
	1.001302		1.001352		1.001402
52,819,0	567,648		(37,962)		52,289,355
25,263,5	(1,090,744)	9,507,185	2,933,863	8,746,000	5,167,253
78,082,5	(523,097)	9,507,185	2,895,901	8,746,000	57,456,608
78,866,7					
(784,1					·
15,929,504,1					
(0.00					

	E-7 Sub 1230	E-7 Sub 1192	E-7 Sub 1105
Year 2018	Rider 12 True up	Rider 11 True Up	Rider 9 Year 1 Estimate
12,611,170	(0)	651,281	11,959,889
3,329,259	(7,197)	232,789	3,103,667
37,743	76,651	37,743	-
15,978,172	69,454	921,813	15,063,556
	1.001302	1.001352	1.001402
16,007,734	69,544	923,059	15,084,675
16,250,749			
(243,015)			
16,832,538,740			
(0.0014)			

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Year 3 Lost Revenue and True Up of Year 1 for Vintage Year 2019

RESIDENTIAL Energy Efficiency Programs

			Va	ar 2019 Yr 3
Line		Reference		R Estimate
1	Residential EE Program Cost	Evans Exhibit 1 pg. 3, Line 10 * NC Alloc. Factor		
2	Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 3, Line 10 * NC Alloc. Factor		
3	Return on undercollection of Residential EE Program Costs	Miller 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 11 * NC Alloc. Factor		
6	Residential DSM Earned Utility Incentive	Evans Exhibit 1 pg. 3, Line 11 * NC Alloc. Factor		
7	Return on undercollection of Residential DSM Program Costs	Miller 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 **	Miller Exhibit 2, pg. 6		
11	Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 9 * Line 10		
12	Residential Net Lost Revenues	Evans Exhibit 2 pg. 3	\$	5,292,331
13	Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12		5,292,331
14	Total Collected for Vintage Year 2018 (through estimated Rider 10)	Miller Exhibit 4 Line 3		
15	Total Residential EE/DSM Revenue Requirement	Line13 - Line 14	\$	5,292,331

E-7 Sub 1164	E-7 Sub 1192	E-7 Sub 1230	
Rider 10 Year 1 Estimate	Year 2019 Yr 2 LR Estimate	Rider 11 True up	Year 2019
\$ 41,002,874		\$ 13,243,503	\$ 54,246,377
3,801,819		3,296,056	7,097,875
		55,738	55,738
44,804,693		16,595,296	61,399,989
10,577,352		(308,751)	10,268,601
2,773,086		541,821	3,314,907
		(6,600)	(6,600)
13,350,438		226,469	13,576,907
58,155,131		16,821,766	74,976,897
1.001402		1.001352	
58,236,664		16,844,509	75,081,173
18,783,204	5,519,302	6,704,043	31,006,549
77,019,869	5,519,302	23,548,552	106,087,723
			82,252,303
			\$ 23,835,420

See Miller Exhibit A for rate

0.0019

NON-RESIDENTIAL Energy Efficiency Programs

			Year 2019 Yr 3 LR
		Reference	Estimate
16	Non- Residential EE Program Cost	Evans Exhibit 1 pg. 3, Line 26 * NC Alloc. Factor	
17	Non-Residential EE Earned Utility Incentive	Evans Exhibit 1 pg. 3, Line 26 * NC Alloc. Factor	
18	Return on undercollection of Non-residential EE Program Costs	Miller Exhibit 3 page 12	
19	Total EE Program Cost and Incentive Components	Line 16 + Line 17 + Line 18	
20	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 6	
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. 3	10,794,655
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	10,794,655
24	Total Collected for Vintage Year 2018 (through estimated Rider 10)	Miller Exhibit 4 Line 8	
25	Non-Residential EE Revenue Requirement	Line 23 - Line 24	10,794,655
26	Projected NC Residential Sales (kWh)	Miller Exhibit 6, Line 8	15,707,415,542
27	NC Non-Residential EE billing factor (Cents/kWh)	Line 25/Line 26*100	0.0687

E-7 Sub 1164	E-7 Sub 1192	E-7 Sub 1230	
Rider 10 Year 1 Estimate	Year 2019 Yr 2 LR Estimate	Rider 11 True up	Year 2019
41,671,833		(8,698,625)	32,973,208
8,464,629		1,873,850	10,338,479
.,.,.		(553,659)	(553,659)
50,136,462		(7,378,434)	42,758,028
1.001402		1.001352	
50,206,753		(7,388,410)	42,818,344
5,590,446	9,219,870	452,216	15,262,532
55,797,199	9,219,870	(6,936,194)	58,080,876
			61,608,599
			(3,527,723)
			15,707,415,542
			(0.0225)

E-7 Sub 1164 E-7 Sub 1230 Rider 10 Year : Rider 11 True Year 2019 Estimate 12,538,168 (462,163) 12,076,005 3,287,157 611,215 3,898,372 (9,744) 15,825,325 15,964,633 139,308 1.001402 1.001352 15,847,512 15,987,009 15,674,069 312,940 16,897,018,794

DSM Programs

28 Non-Residential	DSM Program Cost
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29 Non-Residential DSM Earned Utility Incentive

30 Return on undercollection of Non-residential DSM Program Costs

31 Total Non-Residential DSM Program Cost and Incentive Components

32 Revenue-related taxes and regulatory fees factor

33 Total Non-Residential DSM Revenue Requirement

34 Total Collected for Vintage Year 2018 (through estimated Rider 10)

35 Non-Residential EE Revenue Requirement True-up Amount

36 Projected NC Non-Residential Sales (kWh)

37 NC Non-Residential DSM billing factor

Evans Exhibit 1, pg. 3 Line 28 * NC Alloc. Factor Evans Exhibit 1, pg. 3 Line 28 * NC Alloc. Factor Miller Exhibit 3 page 16 Line 28 + Line 29 + Line 30 Miller Exhibit 2, pg. 6 Line 31 * Line 32 Miller Exhibit 4 Line 12 Line 33 - Line 34 Miller Exhibit 6 Line 9

Line 35/Line 36*100

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

2020

0.0612

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Year 2 Lost Revenues for Vintage Year 2020

Reference

Line 4/Line 5*100

RESIDENTIAL

6 NC Non-Residential EE billing factor (Cents/kWh)

Line

1	Residential Net Lost Revenues	Evans Exhibit 2 pg. 3	4,495,479
2	Projected NC Residential Sales (kWh)	Miller Exhibit 6, Line 1	\$ 22,092,324,452
3	NC Residential EE Billing Factor (Cents/kWh)	Line 1/Line 2*100	0.0203
	NON DECIDENTIAL		
	NON-RESIDENTIAL		
	Energy Efficiency Programs		
		Reference	2020
4	Non-Residential Net Lost Revenues	Evans Exhibit 2 pg. 3	9,376,721
5	Projected NC Non-Residential Sales (kWh)	Miller Exhibit 6, Line 10	15,330,345,599
_	respected the treatment during (item)		

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Program Costs, Earned Incentive and Lost Revenues for Vintage Year 2021

RESIDENTIAL

Line		Reference		2021
1	Residential EE Program Cost	Evans Exhibit 1, pg. 4 * NC Alloc. Factor	\$	37,155,471
2	Residential EE Earned Utility Incentive	Evans Exhibit 1, pg. 4 * NC Alloc. Factor		2,979,803
3	Total EE Program Cost and Incentive Components	Line 1 + Line 2, Evans Exhibit 1, Line 10		40,135,274
4	Residential DSM Program Cost	Evans Exhibit 1, pg. 4 * NC Alloc. Factor		13,699,485
5	Residential DSM Earned Utility Incentive	Evans Exhibit 1, pg. 4 * NC Alloc. Factor		3,521,640
6	Total DSM Program Cost and Incentive Components	Line 4 + Line 5, Evans Exhibit 1, Line 12		17,221,124
7	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6		57,356,398
8	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 6		1.001302
9	Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 7 * Line 8		57,431,076
10	Residential Net Lost Revenues	Evans Exhibit 2 pg. 3		25,205,298
11	Total Residential EE Revenue Requirement	Line 9 + Line 10	\$	82,636,375
			See	Miller Exhibit 1
				for rate

NON-RESIDENTIAL Energy Efficiency Programs

		Reference	2021
12	Non- Residential EE Program Cost	Evans Exhibit 1, pg. 4 * NC Alloc. Factor	\$ 38,264,959
13	Non-Residential EE Earned Utility Incentive	Evans Exhibit 1, pg. 4 * NC Alloc. Factor	9,302,510
14	Total EE Program Cost and Incentive Components	Line 12 + Line 13, Evans Exhibit 1, Line 27	47,567,470
15	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg. 6	1.001302
16	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 14 * Line 15	47,629,402
17	Non-Residential Net Lost Revenues	Evans Exhibit 2 pg. 3	6,360,715
18	Total Non-Residential EE Revenue Requirement	Line 16 + Line 17	\$ 53,990,117
19	Projected NC Residential Sales (kWh)	Miller Exhibit 6, pg. 1, Line 12	15,330,345,599
20	NC Non-Residential EE billing factor (Cents/kWh)	Line 18/Line 19*100	0.3522

DSM Programs

21 Non-Residential DSM Program Cost

22	Non-Residential DSM Earned Utility Incentive
23	Total Non-Residential DSM Program Cost and Incentive Components
24	Revenue-related taxes and regulatory fees factor
25	Total Non-Residential DSM Revenue Requirement
26	Projected NC Non-Residential Sales (kWh)
27	NC Non-Residential DSM billing factor

Evans Exhibit 1, pg. 4 * NC Alloc. Factor
Evans Exhibit 1, pg. 4 * NC Alloc. Factor
Line 21 + Line 22, Evans Exhibit 1, Line 29
Miller Exhibit 2, pg. 6
Line 23 * Line 24
Miller Exhibit 6, pg. 1, Line 13
Line 25/Line 26*100

2021
\$ 16,110,767
4,141,493
20,252,260
1.001302
20,278,628
16,898,362,794
0.1200

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Gross Receipts Tax Years 2017 through estimated 2021

	Year		Actual GRT Rate In Effect
Rider 8	2017		1.001402
Rider 9	2018		1.001402
Rider 10	2019	Jan - June	1.001402
		July - Dec	1.001302
		Weighted Average	1.001352
Rider 11	2020		1.001302
Rider 12	2021		1.001302

Note: the current rate is used as the estimate for 2020 and 2021. This will be subject to true-up based on actual rates in effect.

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Return Calculation - Residential EE Programs Vintage 2017

		Cumulative		Monthly	Cumulative					Gross up of	
		(Over)/Under	Current Income	Deferred Income	Deferred Income	Net Deferred		Monthly A/T	YTD After Tax	Return to Pretax	Gross up of Return
NC Resid	dential EE	Recovery	Tax Rate	Tax	Tax	After Tax Balance	Monthly Return	Return on Deferral	Interest	Rate	to Pretax
			2019				6.84%			0.766497	
Beginniı	ng Balance	18,108,325			4,276,263	13,832,062					
2019	January	17,333,797	0.233503	(180,855)	4,095,408	13,238,389	0.005700	77,151	77,151	0.766497	100,654
2019	February	15,462,902	0.233503	(436,860)	3,658,549	11,804,354	0.005700	71,372	148,523	0.766497	193,768
2019	March	13,944,847	0.233503	(354,470)	3,304,078	10,640,769	0.005700	63,969	212,491	0.766497	277,224
2019	April	12,660,896	0.233503	(299,806)	3,004,272	9,656,624	0.005700	57,848	270,339	0.766497	352,694
2019	May	11,384,093	0.233503	(298,137)	2,706,135	8,677,959	0.005700	52,254	322,592	0.766497	420,866
2019	June	9,751,263	0.233503	(381,271)	2,324,864	7,426,399	0.005700	45,897	368,490	0.766497	480,745
2019	July	7,835,080	0.233503	(447,434)	1,877,429	5,957,651	0.005700	38,145	406,634	0.766497	530,510
2019	August	5,860,857	0.233503	(460,987)	1,416,443	4,444,415	0.005700	29,646	436,280	0.766497	569,187
2019	September	4,031,804	0.233503	(427,089)	989,353	3,042,451	0.005700	21,338	457,618	0.766497	597,025
2019	October	2,584,177	0.233503	(338,025)	651,328	1,932,849	0.005700	14,180	471,797	0.766497	615,524
2019	November	1,321,934	0.233503	(294,738)	356,590	965,343	0.005700	8,260	480,057	0.766497	626,300
2019	December	(2,633,637)	0.233503	(923,638)	(567,047)	(2,066,590)	0.005700	(3,139)	476,919	0.766497	622,205
								476,919			622,205

Interest Calculation 2019 - Rider 10	NC Program Costs	Pavanua	Undercollected		Revenues	Undercollected			Revenue	Undercollected	Total (Over)/Under			
NC Residential EE	Incurred	Collected	Balance	Lost Revenues	Collected	Balance	PPI		Collected	Balance	Collection			
2017 January 2017 February 2017 March												Revenue Requirement Res EE Program Costs Res EE PPI & GRT Res EE Lost Revenue	47,487,858 8,570,768 23,357,250	0.60 0.11 0.29
2017 April 2017 May 2017 June												Total Revenue Collected	79,415,876 49,132,586	
2017 July 2017 August 2017 September												Residential EE Rev Collected	49,132,586	
2017 October 2017 November							_							
2017 December YTD Balance	47,487,858 47,487,858	29,379,532 29,379,532		23,357,250 23,357,250	14,450,538 14,450,538	8,906,712 8,906,712		8,570,768 8,570,768	5,302,517 5,302,517	3,268,251 3,268,251		-		
Interest Calculation 2020 - Rider 11	NC D										T-1-1/0 - 1/11-1			
	NC Program Costs Incurred	Revenue Collected	Undercollected Balance	Lost Revenues	Revenues Collected	Undercollected Balance	PPI		Revenue Collected	Undercollected Balance	Total (Over)/Under Collection			
2020 - Rider 11 NC Residential EE Beginning Balance 2018 January 2018 February 2018 March			Balance	Lost Revenues 23,357,250	14,450,538 234,785 461,305 339,367				5,302,517 (22,935) (45,062) (33,151)	Balance 3,268,251	Collection	Revenue Requirement Res EE PPI & GRT Res EE Lost Revenue	(251,270) 2,572,270 2,321,000	(0.11) 1.11
2020 - Rider 11 NC Residential EE Beginning Balance 2018 January 2018 February	Incurred	Collected	Balance		Collected 14,450,538 234,785 461,305	Balance			5,302,517 (22,935) (45,062)	3,268,251	Collection 30,283,290	Res EE PPI & GRT	2,572,270	
2020 - Rider 11 NC Residential EE Beginning Balance 2018 January 2018 February 2018 March 2018 April 2018 May 2018 July 2018 July 2018 August 2018 September	Incurred	Collected	Balance		Collected 14,450,538 234,785 461,305 339,367 341,793 298,837 426,042 488,050 450,004 483,004	Balance			5,302,517 (22,935) (45,062) (33,151) (33,388) (29,192) (41,618) (47,773) (43,958) (47,182)	3,268,251	Collection 30,283,290	Res EE PPI & GRT Res EE Lost Revenue Revenue Collected per Exhibit	2,572,270 2,321,000 4,435,871	
2020 - Rider 11 NC Residential EE Beginning Balance 2018 January 2018 February 2018 March 2018 April 2018 May 2018 June 2018 July 2018 August	Incurred	Collected	Balance		14,450,538 234,785 461,305 339,367 341,793 298,837 426,042 489,050 450,004	Balance	2		5,302,517 (22,935) (45,062) (33,151) (33,388) (29,192) (41,618) (47,773) (43,958)	Balance 3,268,251	30,283,290	Res EE PPI & GRT Res EE Lost Revenue Revenue Collected per Exhibit Checkpoint	2,572,270 2,321,000 4,435,871	

NO CHANGE

Interest 2021 - R	Calculation ider 12	NC Program Costs Incurred	Revenue Collected	Undercollected Balance	Lost Revenues	Revenues Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Total (Over)/Under Collection			Willer Ex
Beg. Bal	Source Rider 11	47,487,858	29,379,532	18,108,326	25,929,520	19,366,634	6,562,886	8,319,498	4,822,291	3,497,207	28,168,419	Revenue Requirement		
2019	January		774,528	17,333,797	165,137	459,291	6,268,732		149,582	3,347,624	26,950,154	Res Program Costs	18,108,326	0.56
2019	February		1,870,895	15,462,902	398,893	1,109,430	5,558,195		361,320	2,986,304	24,007,401	Res PPI & GRT	3,497,207	0.11
2019	March		1,518,055	13,944,847	323,664	900,198	4,981,661		293,177	2,693,126	21,619,635	Res Lost Revenue	10,738,136	0.33
2019	April		1,283,951	12,660,896	273,751	761,376	4,494,036		247,966	2,445,161	19,600,094		32,343,668	
2019	May		1,276,803	11,384,093	272,227	757,137	4,009,126		246,585	2,198,576	17,591,795			
2019	June		1,632,830	9,751,263	348,135	968,259	3,389,002		315,344	1,883,232	15,023,497	Revenue Collected in 2019	35,500,650	
2019	July		1,916,183	7,835,080	408,549	1,136,286	2,661,265		370,067	1,513,165	12,009,511	Less Interest Collected (and GRT):	523,344	
2019	August		1,974,223	5,860,857	420,924	1,170,703	1,911,486		381,276	1,131,890	8,904,233		34,977,306	
2019	September		1,829,053	4,031,804	389,972	1,084,618	1,216,839		353,240	778,650	6,027,294	Checkpoint	34,977,306	
2019	October		1,447,627	2,584,177	308,648	858,435	667,053		279,576	499,074	3,750,304			
2019	November		1,262,243	1,321,934	269,123	748,503	187,672		243,773	255,301	1,764,907			
2019	December		2,796,434	(1,474,501)	596,227	1,658,270	(874,371)		540,067	(284,766)	(2,633,637)			
YTD Bala	ance	-	19,582,827	(1,474,501)	4,175,250	11,612,507	(874,371)	-	3,781,972	(284,766)	(2,633,637)			
Cumulat	ive Balance	47,487,858	48,962,359	(1,474,501)	30,104,770	30,979,141	(874,371)	8,319,498	8,604,264	(284,766)	(2,633,637)			

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Return Calculation - Residential DSM Programs Vintage 2017

		Total System NC	NC Residential	NC Allocated		NC Residential	DSM Program	
		DSM Program	DSM Allocation	DSM Residential	NC Residential	DSM Program	Costs Revenue	(Over)/Under
NC Resid	ential DSM	Costs Incurred	%	Program Costs	Revenue Collected	Collection %	Collected	Collection
			Miller Exhibit 5,					
			pg 3 Line 9			See calc. at right		
Beginnin	g Balance	29,822,653		10,082,297	12,781,955		(9,892,053)	190,244
2019	January		32.1574721%	-	10,519	73.0104618%	(7,680)	(7,680)
2019	February		32.1574721%	-	24,953	73.0104618%	(18,218)	(18,218)
2019	March		32.1574721%	-	20,307	73.0104618%	(14,827)	(14,827)
2019	April		32.1574721%	-	17,225	73.0104618%	(12,576)	(12,576)
2019	May		32.1574721%	-	17,131	73.0104618%	(12,508)	(12,508)
2019	June		32.1574721%	-	21,819	73.0104618%	(15,930)	(15,930)
2019	July		32.1574721%	-	25,549	73.0104618%	(18,653)	(18,653)
2019	August		32.1574721%	-	26,313	73.0104618%	(19,211)	(19,211)
2019	September		32.1574721%	-	24,402	73.0104618%	(17,816)	(17,816)
2019	October		32.1574721%	-	19,380	73.0104618%	(14,150)	(14,150)
2019	November		32.1574721%	-	16,940	73.0104618%	(12,368)	(12,368)
2019	December		32.1574721%	-	37,138	73.0104618%	(27,115)	(27,115)
		29,822,653	<u>-</u> '	10,082,297	261,676	-	(10,083,104)	(807)

190,244
260,571
73.01%

NC Resid	dential 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
			2019				6.84%			0.766497	
Beginniı	ng Balance	190,244			44,926	145,318					
2019	January	182,564	0.233503	(1,793)	43,133	139,432	0.005700	812	812	0.766497	1,059
2019	February	164,346	0.233503	(4,254)	38,879	125,467	0.005700	755	1,566	0.766497	2,044
2019	March	149,520	0.233503	(3,462)	35,417	114,103	0.005700	683	2,249	0.766497	2,934
2019	April	136,943	0.233503	(2,937)	32,480	104,463	0.005700	623	2,872	0.766497	3,747
2019	May	124,436	0.233503	(2,921)	29,560	94,876	0.005700	568	3,440	0.766497	4,488
2019	June	108,506	0.233503	(3,720)	25,840	82,666	0.005700	506	3,946	0.766497	5,148
2019	July	89,853	0.233503	(4,356)	21,484	68,368	0.005700	430	4,377	0.766497	5,710
2019	August	70,641	0.233503	(4,486)	16,998	53,643	0.005700	348	4,724	0.766497	6,164
2019	September	52,825	0.233503	(4,160)	12,838	39,987	0.005700	267	4,991	0.766497	6,512
2019	October	38,676	0.233503	(3,304)	9,534	29,141	0.005700	197	5,188	0.766497	6,769
2019	November	26,308	0.233503	(2,888)	6,646	19,662	0.005700	139	5,327	0.766497	6,950
2019	December	(807)	0.233503	(6,331)	315	(1,122)	0.005700	53	5,380	0.766497	7,019
								5,380			7,019

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Return Calculation - Non- Residential EE Programs Vintage 2017

NC Non-

		Non-Residential EE Program Costs		NC Allocated EE	NC Residential	Residential EE Program	Non-Residential EE Program Costs	(Over)/Under
NC Non-	Residential EE	Incurred	NC Allocation %	Program Costs	Revenue Collected	Collection %	Revenue Collected	Collection
			Miller Exhibit 5.					
			pg 3, Line 4			See calc. at right		
Beginnir	ng Balance	97,443,527		70,947,415	46,928,129		(30,933,661)	40,013,754
2019	January		73.0903918%	-	1,115,901	59.0752989%	(659,222)	(659,221)
2019	February		73.0903918%	-	5,298,136	59.0752989%	(3,129,890)	(3,129,890)
2019	March		73.0903918%	-	4,769,940	59.0752989%	(2,817,856)	(2,817,856)
2019	April		73.0903918%	-	4,871,558	59.0752989%	(2,877,888)	(2,877,888)
2019	May		73.0903918%	-	5,351,721	59.0752989%	(3,161,545)	(3,161,545)
2019	June		73.0903918%	-	5,741,655	59.0752989%	(3,391,900)	(3,391,900)
2019	July		73.0903918%	-	6,484,109	59.0752989%	(3,830,507)	(3,830,507)
2019	August		73.0903918%	-	6,541,734	59.0752989%	(3,864,549)	(3,864,549)
2019	September		73.0903918%	-	6,393,213	59.0752989%	(3,776,809)	(3,776,809)
2019	October		73.0903918%	-	5,592,962	59.0752989%	(3,304,059)	(3,304,059)
2019	November		73.0903918%	-	4,992,945	59.0752989%	(2,949,597)	(2,949,597)
2019	December		73.0903918%	-	7,058,299	59.0752989%	(4,169,711)	(4,169,711)
		97,443,527	_	70,947,415	64,212,173	•	(68,867,194)	2,080,222

Program Costs to be Recovered in Rider 10	40,013,754
Revenues to be Collected in Rider 10	67,733,477
% Revenue to be assigned to Program Costs	59.08%

		Cumulative			Cumulative	Net Deferred				Gross up of	
		(Over)/Under	Current Income	Monthly Deferred	Deferred Income	After Tax		Monthly A/T Return	YTD After Tax	Return to	Gross up of Return to
NC Non-	Residential EE	Recovery	Tax Rate	Income Tax	Tax	Balance	Monthly Return	on Deferral	Interest	Pretax Rate	Pretax
			2019				6.84%			0.766497	
Beginni	ng Balance	40,013,754			9,449,208	30,564,546					
2019	January	39,354,533	0.233503	(153,930.06)	8,710,978	30,643,555	0.005700	174,443	174,443	0.766497	227,585
2019	February	36,224,643	0.233503	(730,838.68)	7,980,139	28,244,504	0.005700	167,831	342,274	0.766497	446,543
2019	March	33,406,787	0.233503	(657,977.87)	7,322,161	26,084,626	0.005700	154,838	497,112	0.766497	648,551
2019	April	30,528,899	0.233503	(671,995.41)	6,650,166	23,878,734	0.005700	142,396	639,508	0.766497	834,325
2019	May	27,367,354	0.233503	(738,230.24)	5,911,936	21,455,419	0.005700	129,202	768,710	0.766497	1,002,887
2019	June	23,975,454	0.233503	(792,018.79)	5,119,917	18,855,538	0.005700	114,886	883,596	0.766497	1,152,772
2019	July	20,144,948	0.233503	(894,434.79)	4,225,482	15,919,466	0.005700	99,109	982,705	0.766497	1,282,073
2019	August	16,280,399	0.233503	(902,383.77)	3,323,098	12,957,301	0.005700	82,299	1,065,004	0.766497	1,389,443
2019	September	12,503,589	0.233503	(881,896.34)	2,441,202	10,062,388	0.005700	65,606	1,130,610	0.766497	1,475,035
2019	October	9,199,531	0.233503	(771,507.64)	1,669,694	7,529,836	0.005700	50,138	1,180,748	0.766497	1,540,447
2019	November	6,249,933	0.233503	(688,739.84)	980,954	5,268,979	0.005700	36,477	1,217,224	0.766497	1,588,035
2019	December	2,080,222	0.233503	(973,640.05)	7,314	2,072,908	0.005700	20,924	1,238,149	0.766497	1,615,334
								1,238,149			1,615,334

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Return Calculation -Non - Residential DSM Programs Vintage 2017

NC Non-	Residential DSM	Total System NC DSM Program Costs Incurred	NC Non- Residential DSM Allocation %	NC Allocated DSM Non- Residential Program Costs	NC Non-Residential DSM Revenue Collected	NC Non- Residential DSM Program Collection %	Non-Residential DSM Program Costs Revenue Collected	(Over)/Under Collection
			See Miller					
			Exhibit 5 pg. 3, Line 10					
Beginnin	g Balance	29,822,653	40.0747013%	11,951,339	15,361,431		(11,888,233)	63,106
2019	January	=	40.1233224%		1,278	73.1152446%	(934)	(934)
2019	February	=	40.1233224%	=	7,283	73.1152446%	(5,325)	(5,325)
2019	March	-	40.1233224%	-	6,513	73.1152446%	(4,762)	(4,762)
2019	April	-	40.1233224%	-	6,752	73.1152446%	(4,937)	(4,937)
2019	May	-	40.1233224%	-	7,322	73.1152446%	(5,353)	(5,353)
2019	June	-	40.1233224%	-	7,794	73.1152446%	(5,699)	(5,699)
2019	July	-	40.1233224%	-	8,919	73.1152446%	(6,521)	(6,521)
2019	August	=	40.1233224%	=	8,938	73.1152446%	(6,535)	(6,535)
2019	September	-	40.1233224%	-	8,747	73.1152446%	(6,396)	(6,396)
2019	October	-	40.1233224%	=	7,718	73.1152446%	(5,643)	(5,643)
2019	November	=	40.1233224%	=	6,913	73.1152446%	(5,055)	(5,055)
2019	December	-	40.1233224%	-	8,271	73.1152446%	(6,048)	(6,048)
		29,822,653		11,951,339	15,447,879		(11,951,439)	(100)

Program Costs to be Recovered in Rider 10	63,106
Revenues to be Collected in Rider 10	86,311
% Revenue to be assigned to Program Costs	73.12%

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
			2019				6.84%			0.766497	
Beginni	ng Balance	63,945			15,101	48,845					
2019	January	63,011	0.233503	(218)	14,883	48,128	0.005700	276	276	0.766497	361
2019	February	57,686	0.233503	(1,243)	13,639	44,046	0.005700	263	539	0.766497	703
2019	March	52,924	0.233503	(1,112)	12,527	40,396	0.005700	241	780	0.766497	1,017
2019	April	47,987	0.233503	(1,153)	11,375	36,612	0.005700	219	999	0.766497	1,304
2019	May	42,634	0.233503	(1,250)	10,125	32,509	0.005700	197	1,196	0.766497	1,561
2019	June	36,935	0.233503	(1,331)	8,794	28,141	0.005700	173	1,369	0.766497	1,786
2019	July	30,414	0.233503	(1,523)	7,271	23,143	0.005700	146	1,515	0.766497	1,977
2019	August	23,879	0.233503	(1,526)	5,745	18,133	0.005700	118	1,633	0.766497	2,130
2019	September	17,483	0.233503	(1,493)	4,252	13,231	0.005700	89	1,722	0.766497	2,247
2019	October	11,840	0.233503	(1,318)	2,934	8,906	0.005700	63	1,785	0.766497	2,329
2019	November	6,786	0.233503	(1,180)	1,754	5,032	0.005700	40	1,825	0.766497	2,381
2019	December	738	0.233503	(1,412)	342	396	0.005700	15	1,841	0.766497	2,401
								1,841			2,401

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Return Calculation - Residential EE Programs Vintage 2018

NC Resid	ential EE	Residential EE Program Costs Incurred	NC Allocation % Miller Exhibit 5 pg. 3, Line 4	NC Allocated EE Program Costs	NC Residential Revenue Collected	NC Residential EE Program Collection % see calc. at right	EE Program Costs Revenue Collected	(Over)/Under Collection	
2019 2019 2019 2019 2019 2019 2019 2019	January February March April May June July August September October November December	77,331,818	0.000000% 0.000000% 0.000000% 0.000000% 0.000000% 0.000000% 0.000000% 0.000000% 0.000000%	56,230,324	70,458,658	0.0000% 0.0000% 0.0000% 0.0000% 0.0000% 0.0000% 0.0000% 0.0000% 0.0000%		15,050,447	Note: All revenues collected in Rider 10 were to collect Y2 of lost revenue. Therefore, no revenue received in 2019 would offset the under collected balance of program costs and a return would still be earned.
		77,331,818		56,230,324	70,458,658			15,050,447	

NC Resid	dential EE	Cumulative (Over)/Under Recovery	Current Income Tax Rate 2019	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return 6.84%	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate 0.766497	Gross up of Return to Pretax
2019	lanca.	45 050 447	0.233503	2 544 224	2 544 224	44 526 422	0.005700	c2 220	62.230	0.766497	04 407
	January	15,050,447		3,514,324	3,514,324	11,536,122		62,230	. ,		81,187
2019	February	15,050,447	0.233503	-	3,514,324	11,536,122	0.005700	65,756	127,985	0.766497	166,974
2019	March	15,050,447	0.233503	-	3,514,324	11,536,122	0.005700	65,756	193,741	0.766497	252,762
2019	April	15,050,447	0.233503		3,514,324	11,536,122	0.005700	65,756	259,497	0.766497	338,550
2019	May	15,050,447	0.233503	-	3,514,324	11,536,122	0.005700	65,756	325,253	0.766497	424,337
2019	June	15,050,447	0.233503		3,514,324	11,536,122	0.005700	65,756	391,009	0.766497	510,125
2019	July	15,050,447	0.233503	-	3,514,324	11,536,122	0.005700	65,756	456,765	0.766497	595,912
2019	August	15,050,447	0.233503	-	3,514,324	11,536,122	0.005700	65,756	522,521	0.766497	681,700
2019	September	15,050,447	0.233503	-	3,514,324	11,536,122	0.005700	65,756	588,277	0.766497	767,487
2019	October	15,050,447	0.233503	-	3,514,324	11,536,122	0.005700	65,756	654,033	0.766497	853,275
2019	November	15,050,447	0.233503	-	3,514,324	11,536,122	0.005700	65,756	719,789	0.766497	939,062
2019	December	15,050,447	0.233503		3,514,324	11,536,122	0.005700	65,756	785,544	0.766497	1,024,850
											1,024,850

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Return Calculation - Residential DSM Programs Vintage 2018

NC Residential EE		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
			Miller Exhibit 5 pg. 3, Line 9			see calc. at right		
			pg. 3, Line 3			see carc. at right		
2019	January	30,409,405		9,778,896	13,173,193		(10,402,600)	(623,705)
2019	February		0.0000000%	-		0.0000%	-	-
2019	March		0.0000000%	-		0.0000%	-	-
2019	April		0.0000000%	-		0.0000%	-	-
2019	May		0.0000000%	-		0.0000%	-	-
2019	June		0.0000000%	-		0.0000%	-	-
2019	July		0.0000000%	-		0.0000%	-	-
2019	August		0.0000000%	-		0.0000%	-	-
2019	September		0.0000000%	-		0.0000%	-	-
2019	October		0.0000000%	-		0.0000%	-	-
2019	November		0.0000000%	-		0.0000%	-	-
2019	December		0.0000000%	-		0.0000%	-	-
		30,409,405	·	9,778,896	13,173,193	_	(10,402,600)	(623,705)

Note: All revenues collected in Rider 10 were to collect Y2 of lost revenue. Therefore, no revenue received in 2019 would offset the under collected balance of program costs and a return would still be earned.

NC Resid	dential EE	Cumulative (Over)/Under Recovery	Current Income Tax Rate 2019	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 0.766497	Gross up of Return to Pretax
			2013				0.0470			0.700437	
2019	January	(623,705)	0.233503	(145,637)	(145,637)	(478,068)	0.005700	(1,362)	(1,362)	0.766497	(1,778)
2019	February	(623,705)	0.233503		(145,637)	(478,068)	0.005700	(2,725)	(4,087)	0.766497	(5,333)
2019	March	(623,705)	0.233503	-	(145,637)	(478,068)	0.005700	(2,725)	(6,812)	0.766497	(8,888)
2019	April	(623,705)	0.233503	-	(145,637)	(478,068)	0.005700	(2,725)	(9,537)	0.766497	(12,443)
2019	May	(623,705)	0.233503	-	(145,637)	(478,068)	0.005700	(2,725)	(12,262)	0.766497	(15,998)
2019	June	(623,705)	0.233503	-	(145,637)	(478,068)	0.005700	(2,725)	(14,987)	0.766497	(19,553)
2019	July	(623,705)	0.233503	-	(145,637)	(478,068)	0.005700	(2,725)	(17,712)	0.766497	(23,108)
2019	August	(623,705)	0.233503	-	(145,637)	(478,068)	0.005700	(2,725)	(20,437)	0.766497	(26,663)
2019	September	(623,705)	0.233503	-	(145,637)	(478,068)	0.005700	(2,725)	(23,162)	0.766497	(30,219)
2019	October	(623,705)	0.233503	-	(145,637)	(478,068)	0.005700	(2,725)	(25,887)	0.766497	(33,774)
2019	November	(623,705)	0.233503	-	(145,637)	(478,068)	0.005700	(2,725)	(28,612)	0.766497	(37,329)
2019	December	(623,705)	0.233503	-	(145,637)	(478,068)	0.005700	(2,725)	(31,337)	0.766497	(40,884)
								(31,337)			(40,884)

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Return Calculation - Non- Residential EE Programs Vintage 2018

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NC Non-	Residential EE	Non-Residential EE Program Costs Incurred	NC Allocation % Miller Exhibit 5. pg 3 , Line 4	NC Allocated EE Program Costs	NC Residential Revenue Collected	Residential EE Program Collection %	Non-Residential EE Program Costs Revenue Collected	(Over)/Under Collection
2019	January	51,264,448		37,275,944	51,998,801		28,240,012	9,035,932
2019	February		0.0000000%	-		0.0000000%	-	-
2019	March		0.0000000%	-		0.0000000%	-	-
2019	April		0.0000000%	-		0.0000000%	-	-
2019	May		0.0000000%	-		0.0000000%	-	-
2019	June		0.0000000%	-		0.0000000%	-	-
2019	July		0.0000000%	-		0.0000000%	-	-
2019	August		0.0000000%	-		0.0000000%	-	-
2019	September		0.0000000%	-		0.0000000%	-	-
2019	October		0.0000000%	-		0.0000000%	-	-
2019	November		0.0000000%	-		0.0000000%	-	-
2019	December		0.0000000%	-		0.0000000%	-	-
		51,264,448	_	37,275,944	51,998,801	-	28,240,012	9,035,932

Note: All revenues collected in Rider 10 were to collect Y2 of lost revenue. Therefore, no revenue received in 2019 would offset the under collected balance of program costs and a return would still be earned.

		Cumulative			Cumulative	Net Deferred				Gross up of	
		(Over)/Under	Current Income	Monthly Deferred	Deferred Income	After Tax		Monthly A/T Return	YTD After Tax	Return to	Gross up of Return to
NC Non-I	Residential EE	Recovery	Tax Rate	Income Tax	Tax	Balance	Monthly Return	on Deferral	Interest	Pretax Rate	Pretax
			2019				6.84%			0.766497	
2019	January	9,035,932	0.233503	2,109,917.24	2,109,917	6,926,015	0.005700	19,739	19,739	0.766497	25,752
2019	February	9,035,932	0.233503	-	2,109,917	6,926,015	0.005700	39,478	59,217	0.766497	77,257
2019	March	9,035,932	0.233503	-	2,109,917	6,926,015	0.005700	39,478	98,696	0.766497	128,762
2019	April	9,035,932	0.233503	-	2,109,917	6,926,015	0.005700	39,478	138,174	0.766497	180,267
2019	May	9,035,932	0.233503	-	2,109,917	6,926,015	0.005700	39,478	177,652	0.766497	231,772
2019	June	9,035,932	0.233503	-	2,109,917	6,926,015	0.005700	39,478	217,131	0.766497	283,276
2019	July	9,035,932	0.233503	-	2,109,917	6,926,015	0.005700	39,478	256,609	0.766497	334,781
2019	August	9,035,932	0.233503	-	2,109,917	6,926,015	0.005700	39,478	296,087	0.766497	386,286
2019	September	9,035,932	0.233503	-	2,109,917	6,926,015	0.005700	39,478	335,565	0.766497	437,791
2019	October	9,035,932	0.233503	-	2,109,917	6,926,015	0.005700	39,478	375,044	0.766497	489,296
2019	November	9,035,932	0.233503	-	2,109,917	6,926,015	0.005700	39,478	414,522	0.766497	540,801
2019	December	9,035,932	0.233503	-	2,109,917	6,926,015	0.005700	39,478	454,000	0.766497	592,305
								454,000			592,305

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Return Calculation -Non - Residential DSM Programs Vintage 2018

		N	NC Non-	
Total System NC	NC Non-	NC Allocated DSM Non- NC Non-Residential Residential	dential DSM	Non-Residential

NC Non- Residential DSM		DSM Program Costs Incurred	Residential DSM Allocation %	Residential Program Costs	DSM Revenue Collected	Program Collection %	DSM Program Costs Revenue Collected	(Over)/Under Collection
			See Miller Exhibit 5 pg. 3, Line 10					
2019	January	30,409,405	41.4712829%	12,611,170	14,074,924		(11,114,680)	1,496,490
2019	February	-	41.4712829%	-	249,056	78.9679563%	(196,674)	(196,674)
2019	March	-	41.4712829%	-	32,655	78.9679563%	(25,787)	(25,787)
2019	April	-	41.4712829%	-	38,629	78.9679563%	(30,505)	(30,505)
2019	May	-	41.4712829%	-	40,518	78.9679563%	(31,996)	(31,996)
2019	June	-	41.4712829%	-	43,631	78.9679563%	(34,455)	(34,455)
2019	July	-	41.4712829%	-	46,592	78.9679563%	(36,793)	(36,793)
2019	August	-	41.4712829%	-	53,325	78.9679563%	(42,110)	(42,110)
2019	September	-	41.4712829%	-	53,359	78.9679563%	(42,137)	(42,137)
2019	October	-	41.4712829%	-	52,348	78.9679563%	(41,338)	(41,338)
2019	November	-	41.4712829%	-	46,029	78.9679563%	(36,348)	(36,348)
2019	December		41.4712829%	-	80,167	78.9679563%	(63,306)	(63,306)
		30,409,405	•	12,611,170	41,424		(11,696,128)	915,042

Rider 10 included a true-up for the impact of opt-outs. All revenue collected in 2019 represents additional collections associated with that true-up. Amounts allocated at same % as calculated in Rider 10.

NC Non-	Residential DSM	Cumulative (Over)/Under Recovery	Current Income Tax Rate 2019	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return 6.84%	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate 0.766497	Gross up of Return to Pretax
2019	January	1,496,490	0.233503	349,435	349,435	1,147,055	0.005700	3,269	3,269	0.766497	4,265
2019	February	1,299,816	0.233503	(45,924)	303,511	996,305	0.005700	6,109	9,378	0.766497	12,234
2019	March	1,274,029	0.233503	(6,021)	297,490	976,540	0.005700	5,623	15,000	0.766497	19,570
2019	April	1,243,524	0.233503	(7,123)	290,367	953,158	0.005700	5,500	20,500	0.766497	26,745
2019	May	1,211,528	0.233503	(7,471)	282,895	928,633	0.005700	5,363	25,863	0.766497	33,742
2019	June	1,177,074	0.233503	(8,045)	274,850	902,223	0.005700	5,218	31,081	0.766497	40,549
2019	July	1,140,281	0.233503	(8,591)	266,259	874,022	0.005700	5,062	36,143	0.766497	47,154
2019	August	1,098,171	0.233503	(9,833)	256,426	841,745	0.005700	4,890	41,033	0.766497	53,533
2019	September	1,056,034	0.233503	(9,839)	246,587	809,447	0.005700	4,706	45,739	0.766497	59,673
2019	October	1,014,696	0.233503	(9,653)	236,935	777,762	0.005700	4,524	50,263	0.766497	65,574
2019	November	978,348	0.233503	(8,487)	228,447	749,901	0.005700	4,354	54,616	0.766497	71,255
2019	December	915,042	0.233503	(14,782)	213,665	701,377	0.005700	4,136	58,753	0.766497	76,651
								58,753			76,651

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Return Calculation - Residential EE Programs Vintage 2019

NC Resid	dential EE	Residential EE Program Costs Incurred	NC Allocation % Miller Exhibit 5 pg. 3, Line 4	NC Allocated EE Program Costs	NC Residential Revenue Collected	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection		
2019	January	3,212,930	73.0903918%	2,348,343	2,558,632	62.4119%	(1,596,892)	751,452		
2019	February	5,158,756	73.0903918%	3,770,555	6,069,759	62.4119%	(3,788,254)	(17,699)	EE Program Costs	54,246,377
2019	March	5,303,004	73.0903918%	3,875,986	4,939,785	62.4119%	(3,083,015)	792,971	EE Revenue Requirement	86,916,677
2019	April	6,291,523	73.0903918%	4,598,499	4,190,063	62.4119%	(2,615,099)	1,983,399	·	
2019	May	9,618,631	73.0903918%	7,030,295	4,167,172	62.4119%	(2,600,813)	4,429,482	% Revenues related to program Costs	62.4119%
2019	June	6,533,627	73.0903918%	4,775,454	5,307,354	62.4119%	(3,312,422)	1,463,031		
2019	July	6,248,948	73.0903918%	4,567,381	6,214,794	62.4119%	(3,878,773)	688,608		
2019	August	6,098,612	73.0903918%	4,457,499	6,400,667	62.4119%	(3,994,780)	462,719		
2019	September	4,923,805	73.0903918%	3,598,828	5,935,759	62.4119%	(3,704,622)	(105,794)		
2019	October	4,430,131	73.0903918%	3,238,000	4,714,238	62.4119%	(2,942,247)	295,753		
2019	November	5,485,441	73.0903918%	4,009,330	4,120,545	62.4119%	(2,571,712)	1,437,619		
2019	December	10,912,797	73.0903918%	7,976,206	9,033,809	62.4119%	(5,638,175)	2,338,031		
		74,218,205		54,246,377	63,652,577		(39,726,803)	14,519,574		

NC Resid	dential EE	Cumulative (Over)/Under Recovery	Current Income Tax Rate 2019	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return 6.84%	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate 0.766497	Gross up of Return to Pretax
2019	January	751.452	0.233503	175.466	175,466	575,985	0.005700	62,230	62,230	0.766497	81,187
2019	February	751,452	0.233503	(4,133)	175,466	575,985	0.005700	3,283	65,513	0.766497	85,470
2019	March	751,452	0.233503	185,161	360,627	390,824	0.005700		68,268	0.766497	89,065
2019	April	751,452	0.233503	463,130	638,596	112,856	0.005700	1,435	69,704	0.766497	90,938
2019	May	751,452	0.233503	1,034,297	1,394,925	(643,473)	0.005700	(1,512)	68,191	0.766497	88,965
2019	June	751,452	0.233503	341,622	980,218	(228,767)	0.005700	(2,486)	65,705	0.766497	85,722
2019	July	751,452	0.233503	160,792	1,555,717	(804,265)	0.005700	(2,944)	62,761	0.766497	81,881
2019	August	751,452	0.233503	108,046	1,088,264	(336,813)	0.005700	(3,252)	59,509	0.766497	77,638
2019	September	751,452	0.233503	(24,703)	1,531,014	(779,562)	0.005700	(3,182)	56,328	0.766497	73,487
2019	October	751,452	0.233503	69,059	1,157,324	(405,872)	0.005700	(3,378)	52,949	0.766497	69,079
2019	November	751,452	0.233503	335,688	1,866,702	(1,115,250)	0.005700	(4,335)	48,614	0.766497	63,423
2019	December	751,452	0.233503	545,937	1,703,261	(951,809)	0.005700	(5,891)	42,723	0.766497	55,738
								42,723			55,738

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Return Calculation - Residential DSM Programs Vintage 2019

NC Residential EE		Total System NC DSM Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	NC Residential Revenue Collected	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
			Miller Exhibit 5					
			pg. 3, Line 9			see calc. at right		
2019	January	1,589,557	34.1181040%	542,327	537,321	75.4903%	(405,626)	136,701
2019	February	1,353,150	34.1181040%	461,669	1,274,670	75.4903%	(962,253)	(500,583)
2019	March	2,084,263	34.1181040%	711,111	1,037,372	75.4903%	(783,115)	(72,004)
2019	April	1,820,414	34.1181040%	621,091	879,928	75.4903%	(664,260)	(43,169)
2019	May	1,926,897	34.1181040%	657,421	875,120	75.4903%	(660,631)	(3,210)
2019	June	1,979,139	34.1181040%	675,245	1,114,563	75.4903%	(841,387)	(166,142)
2019	July	3,696,829	34.1181040%	1,261,288	1,305,128	75.4903%	(985,245)	276,043
2019	August	3,437,773	34.1181040%	1,172,903	1,344,162	75.4903%	(1,014,712)	158,191
2019	September	4,173,115	34.1181040%	1,423,788	1,246,530	75.4903%	(941,009)	482,778
2019	October	3,499,351	34.1181040%	1,193,912	990,006	75.4903%	(747,359)	446,553
2019	November	1,661,681	34.1181040%	566,934	865,329	75.4903%	(653,239)	(86,305)
2019	December	2,875,050	34.1181040%	980,913	1,897,131	75.4903%	(1,432,150)	(451,238)
		30,097,219	•	10,268,600	13,367,259	•	(10,090,987)	177,614

Program Costs	10,268,601
Revenue Requirement	13,602,540
% Revenues related to Program Costs	75.4903%

NC Resid	dential EE	Cumulative (Over)/Under Recovery	Current Income Tax Rate 2019	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return 6.84%	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate 0.766497	Gross up of Return to Pretax
2019	January	136,701	0.233503		31,920	104,781	0.005700		299	0.766497	390
2019	February	(363,883)	0.233503	(116,888)	(84,968)	(278,915)	0.005700	(496)	(198)	0.766497	(258)
2019	March	(435,887)	0.233503	(16,813)	(101,781)	(334,106)	0.005700	(1,747)	(1,945)	0.766497	(2,537)
2019	April	(479,056)	0.233503	(10,080)	(111,861)	(367,195)	0.005700	(1,999)	(3,943)	0.766497	(5,145)
2019	May	(482,267)	0.233503	(750)	(112,611)	(369,656)	0.005700	(2,100)	(6,043)	0.766497	(7,885)
2019	June	(648,409)	0.233503	(38,795)	(151,405)	(497,003)	0.005700	(2,470)	(8,513)	0.766497	(11,107)
2019	July	(372,366)	0.233503	64,457	(86,949)	(285,417)	0.005700	(2,230)	(10,743)	0.766497	(14,016)
2019	August	(214,175)	0.233503	36,938	(50,011)	(164,165)	0.005700	(1,281)	(12,025)	0.766497	(15,688)
2019	September	268,603	0.233503	112,730	62,720	205,883	0.005700	119	(11,906)	0.766497	(15,533)
2019	October	715,156	0.233503	104,272	166,991	548,165	0.005700	2,149	(9,757)	0.766497	(12,729)
2019	November	628,851	0.233503	(20,153)	146,839	482,013	0.005700	2,936	(6,821)	0.766497	(8,899)
2019	December	177,614	0.233503		41,473	136,140	0.005700	1,762	(5,059)	0.766497	(6,600)
		·			·	,		(5,059)	, , ,		(6,600)

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Return Calculation - Non- Residential EE Programs Vintage 2019

									NC Non-		
		Non-Residential							Residential EE	Non-Residential	
		EE Program Costs		NC Allocated EE				NC Residential	Program	EE Program Costs	(Over)/Under
NC Non-	Residential EE	Incurred	NC Allocation %	Program Costs	Program Incentives	Lost Revenues	Total Costs	Revenue Collected	Collection %	Revenue Collected	Collection
			Miller Exhibit 5.								
			pg 3, Line 4						See calc. at right		
2019	January	3,910,661	73.0903918%	2,858,317	896,202	1,323,049	5,077,568	1,961,495	100.0000000%	(1,961,495)	896,822
2019	February	4,042,579	73.0903918%	2,954,737	926,434	1,367,679	5,248,849	4,273,378	100.0000000%	(4,273,378)	(1,318,641)
2019	March	3,315,615	73.0903918%	2,423,396	759,836	1,121,734	4,304,966	3,861,979	100.0000000%	(3,861,979)	(1,438,583)
2019	April	3,318,152	73.0903918%	2,425,250	760,417	1,122,592	4,308,260	3,919,819	100.0000000%	(3,919,819)	(1,494,568)
2019	May	3,870,647	73.0903918%	2,829,071	887,032	1,309,511	5,025,614	4,328,089	100.0000000%	(4,328,089)	(1,499,018)
2019	June	3,876,733	73.0903918%	2,833,519	888,427	1,311,570	5,033,516	4,656,923	100.0000000%	(4,656,923)	(1,823,404)
2019	July	3,886,284	73.0903918%	2,840,500	890,616	1,314,801	5,045,917	5,260,960	100.0000000%	(5,260,960)	(2,420,460)
2019	August	3,186,558	73.0903918%	2,329,068	730,260	1,078,071	4,137,399	5,303,365	100.0000000%	(5,303,365)	(2,974,297)
2019	September	3,413,373	73.0903918%	2,494,848	782,239	1,154,807	4,431,894	5,176,057	100.0000000%	(5,176,057)	(2,681,210)
2019	October	3,726,001	73.0903918%	2,723,349	853,884	1,260,575	4,837,807	4,522,554	100.0000000%	(4,522,554)	(1,799,205)
2019	November	2,909,750	73.0903918%	2,126,748	666,824	984,422	3,777,994	4,015,015	100.0000000%	(4,015,015)	(1,888,267)
2019	December	5,656,566	73.0903918%	4,134,406	1,296,309	1,913,721	7,344,436	5,582,965	100.0000000%	(5,582,965)	(1,448,558)
		45.112.919	_	32,973,209	10.338.479	15.262.532	58.574.220	52.862.599		(52.862.599)	(19.889.390)

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
			2019				6.84%			0.766497	
2019	January	896,822	0.233503	209,411	209,411	687,412	0.005700	1,959	1,959	0.766497	2,556
2019	February	(421,819)	0.233503	(307,907)	(98,496)	(323,323)	0.005700	1,038	2,997	0.766497	3,910
2019	March	(1,860,402)	0.233503	(335,913)	(434,409)	(1,425,992)	0.005700	(4,986)	(1,989)	0.766497	(2,595)
2019	April	(3,354,970)	0.233503	(348,986)	(783,396)	(2,571,575)	0.005700	(11,393)	(13,382)	0.766497	(17,458)
2019	May	(4,853,988)	0.233503	(350,025)	(1,133,421)	(3,720,567)	0.005700	(17,933)	(31,314)	0.766497	(40,854)
2019	June	(6,677,392)	0.233503	(425,770)	(1,559,191)	(5,118,201)	0.005700	(25,190)	(56,505)	0.766497	(73,718)
2019	July	(9,097,852)	0.233503	(565,185)	(2,124,376)	(6,973,476)	0.005700	(34,461)	(90,966)	0.766497	(118,678)
2019	August	(12,072,149)	0.233503	(694,507)	(2,818,883)	(9,253,266)	0.005700	(46,246)	(137,212)	0.766497	(179,012)
2019	September	(14,753,359)	0.233503	(626,070)	(3,444,954)	(11,308,405)	0.005700	(58,601)	(195,813)	0.766497	(255,465)
2019	October	(16,552,564)	0.233503	(420,120)	(3,865,073)	(12,687,491)	0.005700	(68,388)	(264,201)	0.766497	(344,687)
2019	November	(18,440,831)	0.233503	(440,916)	(4,305,989)	(14,134,842)	0.005700	(76,444)	(340,645)	0.766497	(444,418)
2019	December	(19,889,390)	0.233503	(338,243)	(4,644,232)	(15,245,158)	0.005700	(83,733)	(424,378)	0.766497	(553,659)
								(424,378)			(553,659)

Vintage is overcollected.	Interest is calculated on all components.	

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Return Calculation -Non - Residential DSM Programs Vintage 2019

NC Non-

						NC NOII-		
		Total System NC	NC Non-	NC Allocated DSM Non-		Residential DSM	Non-Residential	
		DSM Program	Residential DSM	Residential Program	DSM Revenue	Program	DSM Program Costs	(Over)/Under
NC Non-	Residential DSM	Costs Incurred	Allocation %	Costs	Collected	Collection %	Revenue Collected	Collection
			See Miller					
			Exhibit 5 pg. 3,					
			Line 10					
2019	January	1,589,557	40.1233224%	637,783	560,289	75.4903188%	(422,964)	214,819
2019	February	1,353,150	40.1233224%	542,929	1,274,361	75.4903188%	(962,019)	(419,091
2019	March	2,084,263	40.1233224%	836,276	1,141,540	75.4903188%	(861,752)	(25,476
2019	April	1,820,414	40.1233224%	730,411	1,195,041	75.4903188%	(902,141)	(171,730
2019	May	1,926,897	40.1233224%	773,135	1,281,300	75.4903188%	(967,257)	(194,122
2019	June	1,979,139	40.1233224%	794,096	1,367,817	75.4903188%	(1,032,569)	(238,473
019	July	3,696,829	40.1233224%	1,483,291	1,562,478	75.4903188%	(1,179,520)	303,771
019	August	3,437,773	40.1233224%	1,379,349	1,564,861	75.4903188%	(1,181,319)	198,030
019	September	4,173,115	40.1233224%	1,674,392	1,530,946	75.4903188%	(1,155,716)	518,676
019	October	3,499,351	40.1233224%	1,404,056	1,350,191	75.4903188%	(1,019,263)	384,793
019	November	1,661,681	40.1233224%	666,722	1,210,511	75.4903188%	(913,819)	(247,097
019	December	2,875,050	40.1233224%	1,153,566	1,634,733	75.4903188%	(1,234,065)	(80,500
		30,097,219	-	12,076,004	15,674,069	•	(11,832,404)	243,600

Program Costs	12,076,005
Revenue Requirement	15,996,766
% Revenues related to Program Costs	75.4903%

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
			2019				6.84%			0.766497	
2019	January	214,819	0.233503	50,161	50,161	164,658	0.005700	469	469	0.766497	612
2019	February	(204,271)	0.233503	(97,859)	(47,698)	(156,573)	0.005700	23	492	0.766497	642
2019	March	(229,748)	0.233503	(5,949)	(53,647)	(176,101)	0.005700	(948)	(456)	0.766497	(595)
2019	April	(401,478)	0.233503	(40,099)	(93,746)	(307,732)	0.005700	(1,379)	(1,835)	0.766497	(2,394)
2019	May	(595,600)	0.233503	(45,328)	(139,074)	(456,526)	0.005700	(2,178)	(4,013)	0.766497	(5,235)
2019	June	(834,073)	0.233503	(55,684)	(194,759)	(639,315)	0.005700	(3,123)	(7,136)	0.766497	(9,310)
2019	July	(530,302)	0.233503	70,931	(123,827)	(406,475)	0.005700	(2,981)	(10,117)	0.766497	(13,198)
2019	August	(332,272)	0.233503	46,241	(77,587)	(254,686)	0.005700	(1,884)	(12,001)	0.766497	(15,657)
2019	September	186,404	0.233503	121,112	43,526	142,878	0.005700	(319)	(12,319)	0.766497	(16,072)
2019	October	571,196	0.233503	89,850	133,376	437,820	0.005700	1,655	(10,664)	0.766497	(13,913)
2019	November	324,099	0.233503	(57,698)	75,678	248,421	0.005700	1,956	(8,709)	0.766497	(11,362)
2019	December	243,600	0.233503	(18,797)	56,881	186,718	0.005700	1,240	(7,469)	0.766497	(9,744)
								(7,469)			(9,744)

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Return Calculation - Residential EE Programs Vintage 2016

NC Resid	ential 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
	_		2019				6.84%			0.766497	_
Beginnin	g Balance - source	(1,972,320)			(465,762)	(1,506,559)					
2019	January	(1,836,434)	0.236149	32,090	(433,672)	(1,402,762)	0.005700	(8,292)	(8,292)	0.766497	(10,817)
2019	February	(1,563,421)	0.236149	64,472	(369,200)	(1,194,221)	0.005700	(7,401)	(15,693)	0.766497	(20,474)
2019	March	(1,334,540)	0.236149	54,050	(315,150)	(1,019,390)	0.005700	(6,309)	(22,002)	0.766497	(28,704)
2019	April	(1,134,938)	0.236149	47,136	(268,015)	(866,924)	0.005700	(5,376)	(27,378)	0.766497	(35,718)
2019	May	(936,231)	0.236149	46,925	(221,090)	(715,141)	0.005700	(4,509)	(31,887)	0.766497	(41,600)
2019	June	(692,994)	0.236149	57,440	(163,650)	(529,344)	0.005700	(3,547)	(35,433)	0.766497	(46,228)
2019	July	(414,318)	0.236149	65,809	(97,841)	(316,477)	0.005700	(2,411)	(37,844)	0.766497	(49,373)
2019	August	(128,382)	0.236149	67,523	(30,317)	(98,065)	0.005700	(1,181)	(39,025)	0.766497	(50,914)
2019	September	65,075	0.236149	45,685	15,367	49,707	0.005700	(138)	(39,163)	0.766497	(51,094)
2019	October	167,811	0.236149	24,261	39,628	128,183	0.005700	507	(38,656)	0.766497	(50,432)
2019	November	259,724	0.236149	21,705	61,334	198,390	0.005700	931	(37,726)	0.766497	(49,218)
2019	December	441,214	0.236149	42,859	104,192	337,022	0.005700	1,526	(36,200)	0.766497	(47,227)
								(36,200)			(47,227)

Note 1: Amounts represent all revenue actually collected through 2018.

Interest Calculation

018 - Month	NC Program Costs Incurred	Revenue Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Lost Revenue	Revenue Collected	Undercollected Balance	Total Cumula Under/Ove Collected
eginning Balance	40,021,103	28,243,964	11,777,138	6,821,368	4,814,022	2,007,346	16,669,126	11,763,849	4,905,277	18,68
January					-	-				18,689
February					-	-				18,689
March					-	-				18,689
April					-	-				18,689
May					-	-				18,689
June					-	-				18,689
July					-	-				18,689
August					-	-				18,689
September					-	-				18,689
October					-	-				18,689
November					-	-				18,689
December					-	-	-	-	-	18,689
TD Balance	40,021,103	28,243,964	11,777,138	6,821,368	4,814,022	2,007,346	16,669,126	11,763,849	4,905,277	18,689

		%
EE Program Costs	40,021,103	0.63
EE PPI & GRT	6,821,368	0.11
EE Lost Revenue	16,669,126	0.26
Total EE Revenue Requirement	63,511,597	

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Residential EE Programs Vintage 2016

Interest	Calcul	lation

interest Calculation										Total Cumulative			
2019 -	NC Program Costs	Revenue	Undercollected		Revenue	Undercollected			Undercollected	Over/Under			
Rider 10 Month	Incurred	Collected	Balance	PPI	Collected	Balance	Lost Revenue	Revenue Collected	Balance	Collected			
Beginning Balance	40,021,103	28,243,964	11,777,138	6,821,368	4,814,022	2,007,346	16,669,126	11,763,849	4,905,277	18,689,761	Note: Year 2 of all residential vintag	es goes	
January										18,689,761	toward the collection of Year 2 lost r	evenues.	
February			-			-				18,689,761	Therefore, no revenues offset the un	ndercollection	
March			_			-				18,689,761	of Year 1 Program costs or PPI. Inter	rest continued to	
April			_			-				18,689,761	accrue on beginning balance.		
May			_			_				18,689,761			
June			_			_				18,689,761			
July			_			_				18,689,761			
August										18,689,761			
September										18,689,761			
October										18,689,761			
November										18,689,761			
December	(2)		(2)	(51,566.50)		(51,567)	2,424,300	5,570,022	(3,145,722)	15,492,471			
YTD Balance	(2)		(2)	(51,566.50)		(51,567)	2,424,300	5,570,022	(3,145,722)	15,492,471			
Cumulative Ending Balance		28,243,964	11,777,137	6,769,802	4,814,022	1,955,779	19,093,426	17,333,871	1,759,555	15,492,471			
Cumulative Ending Balance	40,021,101	26,243,964	11,///,13/	0,709,802	4,614,022	1,955,779	19,093,420	17,333,671	1,/39,333	15,492,471			
Interest Calculation													
interest calculation			Cumulative			Cumulative			Cumulative	Total Cumulative			
2020-	NC Program Costs	Revenue	Under/(Over)coll		Revenue	Under/(Over)'coll			Under/(Over)colle	Over/Under			
Rider 11 Month	Incurred	Collected	ected Balance	PPI	Collected	ected Balance	Lost Revenue	Revenue Collected	cted Balance	Collected			
Maci II World	ilicarrea	conceted	ceted balance		conceted	ceted balance	LOSE NEVERIGE	Neveride conected	cted balance	Conected			
Beginning Balance	40,021,101	28,243,964	11,777,137	6,770,575	4,814,022	1,956,553	19,093,426	17,333,871	1,759,555	15,493,244	Revenue Requirement:		
January	40,021,101	590,101	11,187,036	0,770,373	98,034	1,858,519	1,390,664	575,924	2,574,295	15,619,850	Program Costs	11,777,137	0.47
February		1,196,334	9,990,702		198,749	1,659,770	1,390,664	1,167,592	2,797,367	14,447,839	PPI & GRT	1,956,553	0.08
March		869,993	9,120,709		144,533	1,515,237	1,390,664	849,091	3,338,940	13,974,885	Lost Revenue	11,494,191	0.46
April		876,484	8,244,224		145,612	1,369,625	1,390,664	855,427	3,874,178	13,488,027	Total Revenue Requirement	25,227,881	0.40
May		761,524	7,482,701		126,513	1,243,112	1,390,664	743,228	4,521,614	13,247,426	Total Revenue Requirement	23,227,001	
June		1,101,959	6,380,741		183,070		1,390,664		4,836,793	12,277,576			
					211,085	1,060,042 848,957	1,390,651	1,075,485	4,836,793	10,946,491			
July		1,270,589 1,166,088	5,110,153 3,944,064		193,724	655,233	1,390,031	1,240,063 1,138,073	4,967,361 3,849,308	8,448,606			
August													
September		1,254,406	2,689,658		208,396	446,837		1,224,269	2,625,039	5,761,535			
October		875,003	1,814,656		145,365	301,471		853,981	1,771,059	3,887,186			
November		805,848	1,008,808		133,877	167,595		786,488	984,571	2,160,973		(0.405.040)	=======================================
December	40.024.404	1,929,546	(920,739)	6 770 575	320,558	(152,964)	20.020.062	1,883,189	(898,618)	(1,972,320)	78575321.89	(2,485,918)	76,089,404
Cumulative Ending Balance	40,021,101	40,941,840	(920,739)	6,770,575	6,923,539	(152,964)	28,828,063	29,726,681	(898,618)	(1,972,320)	77,592,059.53		
to be come to Colombation											(2,917,448.31)		
Interest Calculation			Cumulative			Cumulative			Cumulative	Total Cumulative	74,674,611.22		
2021-	NC Program Costs	Revenue			Revenue	Under/(Over)'coll				Over/Under			
	Incurred	Collected	Under/(Over)coll ected Balance	PPI	Collected	ected Balance	Lost Revenue	Revenue Collected	Under/(Over)colle cted Balance	Collected			
Rider 12 Month	incurred	Collected	ecteu balance	rri	Collected	ecteu balance	LOST Revenue	Revenue Conecteu	cteu balance	Collected			
Beginning Balance	40,021,101	40,941,840	(920,739)	6,770,575	6,923,539	(152,964)	28,828,063	29,726,681	(898,618)	(1,972,320)	Revenue Requirement:		
January	40,021,101	(63,436)	(857,303)	0,770,373	(10,539)	(142,425)	20,020,003	(61,912)	(836,706)	(1,836,434)	Program Costs	(920,739)	0.47
February		(127,450)	(729,852)		(21,174)	(121,251)		(124,388)	(712,318)	(1,563,421)	PPI & GRT	(152,964)	0.08
March		(106,849)	(623,004)		(17,751)	(103,500)		(104,282)	(608,036)	(1,334,540)	Lost Revenue	(898,618)	0.46
		(93,180)			(15,480)	(88,020)			(517,094)	(1,134,938)		(1,972,320)	0.40
April								(90,941)			Total Revenue Requirement	(1,972,520)	
May		(92,763)			(15,411)	(72,610)		(90,534)	(426,560)	(936,231)			
June		(113,550)			(18,864)	(53,745)		(110,822)	(315,738)	(692,994)			
July		(130,095)	(193,416)		(21,613)	(32,132)		(126,969)	(188,769)	(414,318)			
August		(133,483)			(22,176)	(9,957)		(130,276)	(58,493)	(128,382)			
September		(125,007)			(20,768)	10,811		(122,004)	63,511	139,397			
October		(102,737)			(17,068)	27,879		(100,268)	163,780	359,470			
November		(91,913)			(15,270)	43,148		(89,704)	253,484	556,356			
December		(181,490)	441,214		(30,151)	73,300		(177,130)	430,614	945,128			
Cumulative Ending Balance	40,021,101	39,579,887	441,214	6,770,575	6,697,276	73,300	28,828,063	28,397,449	430,614	945,128			
		(1,361,953)			(226,263)			(1,329,232)					

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Return Calculation - Residential DSM Programs Vintage 2016

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 6.84%	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
Beginnin	ig Balance - source	(11,973)			(2,827)	(9,146)					
2018	January	(12,671)	0.236149	(165)	(2,992)	(9,679)	0.005700	(54)	(54)	0.766497	(70)
2018	February	(9,760)	0.236149	687	(2,305)	(7,455)	0.005700		(102)	0.766497	(134)
2018	March	(8,011)	0.236149	413	(1,892)	(6,119)	0.005700	(39)	(141)	0.766497	(184)
2018	April	(7,032)	0.236149	231	(1,661)	(5,371)	0.005700	(33)	(174)	0.766497	(227)
2018	May	(6,076)	0.236149	226	(1,435)	(4,641)	0.005700	(29)	(202)	0.766497	(264)
2018	June	(3,949)	0.236149	502	(932)	(3,016)	0.005700	(22)	(224)	0.766497	(293)
2018	July	(889)	0.236149	723	(210)	(679)	0.005700	(11)	(235)	0.766497	(306)
2018	August	(9,528)	0.236149	(2,040)	(2,250)	(7,278)	0.005700	(23)	(257)	0.766497	(336)
2018	September	(20,713)	0.236149	(2,641)	(4,891)	(15,822)	0.005700	(66)	(323)	0.766497	(422)
2018	October	(26,835)	0.236149	(1,446)	(6,337)	(20,498)	0.005700	(104)	(427)	0.766497	(557)
2018	November	(30,495)	0.236149	(864)	(7,201)	(23,294)	0.005700	(125)	(552)	0.766497	(720)
2018	December	(54,523)	0.236149	(5,674)	(12,876)	(41,648)	0.005700	(185)	(737)	0.766497	(961)
								(737)			(961)

Note 1: Amounts represent all revenue actually collected through 2018.

Interest Calculation

								Total Cumulative			
2018 -		NC Program Costs	Revenue	Undercollected		Revenue	Undercollected	Under/Over			
Rider 9	Month	Incurred	Collected	Balance	PPI	Collected	Balance	Collected		%	
									DSM Program Costs	9,600,575	0.78
Beginning	Balance	9,600,575	10,366,049	(765,474)	2,775,672	2,996,983.02	(221,311)	(986,784)	DSM PPI & GRT	2,775,672	0.22
	January					-	-	(986,784)	Total Revenue Requirement	12,376,248	
	February					-	-	(986,784)			
	March					-	-	(986,784)			
	April					-	-	(986,784)			
	May					-	-	(986,784)			
	June					-	-	(986,784)			
	July					-	-	(986,784)			
	August					-	-	(986,784)			
	September					-	-	(986,784)			
	October					-	-	(986,784)			
	November					-	-	(986,784)			
	December					-	-	(986,784)			
YTD Balar	ice	9,600,575	10,366,049	(765,474)	2,775,672	2,996,983	(221,311)				

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Interest Calculation

Interest Calculation							Total Cumulative			
2019 -	NC Program Costs	Revenue	Undercollected		Revenue	Undercollected	Over/Under			
Rider 10 Month	Incurred	Collected	Balance	PPI	Collected	Balance	Collected			
Beginning Balance	9,600,575	10,366,049	(765,474)	2,775,672	2,996,983	(221,311)	(986,784)	Note: Year 2 of all residential vintage:	s goes	
January			-			-	(986,784)	toward the collection of Year 2 lost re		
February			-			-	(986,784)	Therefore, no revenues offset the ove		
March			-			-	(986,784)	of Program costs or PPI. Interest cont	inued to	
April May			-			-	(986,784) (986,784)	accrue on beginning balance.		
June							(986,784)			
July			_			_	(986,784)			
August							(986,784)			
September			-			-	(986,784)			
October			-			-	(986,784)			
November			-			-	(986,784)			
December			-			-	(986,784)			
YTD Balance			-			-	(986,784)			
Cumulative Ending Balance	9,600,575	10,366,049	(765,474)	2,775,672	2,996,983	(221,311)	(986,784)			
Interest Calculation										
		_	Cumulative		_	Cumulative	Total Cumulative			
2020-	NC Program Costs Incurred	Revenue Collected	Under/(Over)coll ected Balance	PPI	Revenue Collected	Under/(Over)colle cted Balance	Over/Under Collected			
Rider 11 Month	incurred	Collected	естей вагапсе	PPI	Collected	cted Balance	Collected			
Beginning Balance	9,600,575	10,366,049	(765,474)	2,775,672	2,996,983	(221,311)	(986,784)	Revenue Requirement:		
January		(38,138)	(727,336)	(6,183)	(11,026)		(943,803)	Program Costs	(765,474)	0.78
February		(76,575)	(650,761)	(6,183)	(22,139)		(851,272)	PPI	(221,311)	0.22
March		(55,884)	(594,877)	(6,183)	(16,157)		(785,414)	Total	(986,784)	
April		(56,295)	(538,582)	(6,183)	(16,276)		(719,025)		(4.075.050)	
May		(49,007)	(489,575)	(6,183)	(14,169)		(662,033)	Revenue Given back	(1,075,363)	
June July		(70,591) (81,283)	(418,984) (337,701)	(6,183) (6,183)	(20,409) (23,500)		(577,215) (478,615)	Less Interest given back Total	(26,322)	
August		(74,657)	(263,044)	(6,183)	(23,500)		(388,556)	TOTAL	(1,049,041)	
September		(80,257)	(182,787)	(6,183)	(23,204)		(291,278)			
October		(56,201)	(126,586)	(6,183)	(16,249)		(225,011)			
November		(51,817)	(74,769)	(6,183)	(14,981)		(164,396)			
December		(123,063)	48,294	(6,220)	(35,579)		(11,973)			
YTD Balance	-	(813,768)	•	(74,230)	(235,273)		(11,973)			
Cumulative Ending Balance	9,600,575	9,552,281	48,294	2,701,443	2,761,710	(60,267)	(11,973)			
Interest Calculation										
			Cumulative			Cumulative	Total Cumulative			
2021-	NC Program Costs	Revenue	Under/(Over)coll		Revenue	Under/(Over)colle	Over/Under			
Rider 12 Month	Incurred	Collected	ected Balance	PPI	Collected	cted Balance	Collected			
Beginning Balance	9,600,575	9,552,281	48,294	2,701,443	2,761,710	(60,267)	(11,973)	Revenue Requirement:		
January		(2,814)	51,108		3,512	(63,779)	(12,671)	698 Program Costs	48,294	(4.03)
February		11,741	39,367		(14,652)		(9,760)	(2,911) PPI	(60,267)	5.03
March		7,057	32,310		(8,806)	, , ,	(8,011)	(1,750) Total	(11,973)	
April		3,949	28,362		(4,928)		(7,032)	(979)		
May		3,854	24,508		(4,809)		(6,076)	(955) Revenue given back	(65,419)	
June		8,580	15,927		(10,708)		(3,949)	(2,127) Less: Interest given back + GRT	(39,928)	
July		12,342	3,585		(15,402)		(889)	(3,060)	(25,491)	
August		13,113	(9,528)		(16,364)		2,362	(3,251)	(05 404)	
September		11,185	(20,713)		(13,959)		5,135	(2,773)	(25,491)	
October		6,122	(26,835)		(7,640)		6,653	(1,518)	-	
November December		3,661	(30,495)		(4,568)		7,561	(908) (5.057)		
YTD Balance		24,028 102,817	(54,523)		(29,985)	68,041 68,041	13,518 13,518	(5,957)		
Cumulative Ending Balance	9,600,575	9,655,099	(54,523)	- 2,701,443	2,633,401	68,041 68,041	13,518			
Cumulative Enumy Balance	3,000,375	9,000,099	(34,323)	2,701,443	2,055,401	00,041	13,310			

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192 Estimated Return Calculation - Non- Residential EE Programs Vintage 2016

		Non-Residential				Percent				
		EE Program Costs		NC Allocated EE	Total Revenue	Attributable to	NC Residential	(Over)/Under		
NC Non-	Residential EE	Incurred	NC Allocation %	Program Costs	Collected	Program Costs	Revenue Collected	Collection		
			Miller Exhibit 5.							
			pg 3, Line 4							
Beginnir	ng Balance - Source Ride	-		50,009,987	81,955,731		(48,395,713)	1,614,274		
2018	January		73.0962827%	-	587,043	-69.29044%	406,765	406,765		
2018	February		73.0962827%	-	(210,295)	-69.29044%	(145,714)	(145,714)		
2018	March		73.0962827%	-	(163,394)	-69.29044%	(113,216)	(113,216)	Program Costs to be Recovered in Rider 10	1,614,274
2018	April		73.0962827%	-	(167,528)	-69.29044%	(116,081)	(116,081)	Revenues to be Collected in Rider 10	(2,329,721)
2018	May		73.0962827%	-	(183,113)	-69.29044%	(126,880)	(126,880)		
2018	June		73.0962827%	-	(197,490)	-69.29044%	(136,842)	(136,842)	% Revenue to be assigned to Program Costs	(0.6929)
2018	July		73.0962827%	-	(221,358)	-69.29044%	(153,380)	(153,380)		
2018	August		73.0962827%	-	(228,025)	-69.29044%	(157,999)	(157,999)		
2018	September		73.0962827%	-	(218,575)	-69.29044%	(151,452)	(151,452)		
2018	October		73.0962827%	-	(208,788)	-69.29044%	(144,670)	(144,670)		
2018	November		73.0962827%	-	(173,646)	-69.29044%	(120,320)	(120,320)		
2018	December		73.0962827%	-	(53,238)	-69.29044%	(36,889)	(36,889)		
		-		50,009,987	80,517,324	•	(49,392,392)	617,596		

NC Non-Residential EE		Cumulative (Over)/Under Recovery	Current Income Tax Rate 2019	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return 6.84%	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate 0.766497	Gross up of Return to Pretax
Beginnin	g Balance - Source Ride	1,614,274			381,209						
2018	January	2,021,039	0.236149	96,057.10	477,266	1,543,773	0.005700	4,400	4,400	0.766497	5,740
2018	February	1,875,324	0.236149	(34,410.31)	442,856	1,432,468	0.005700	8,482	12,882	0.766497	16,806
2018	March	1,762,108	0.236149	(26,735.95)	416,120	1,345,988	0.005700	7,919	20,801	0.766497	27,137
2018	April	1,646,027	0.236149	(27,412.43)	388,708	1,257,319	0.005700	7,419	28,220	0.766497	36,817
2018	May	1,519,147	0.236149	(29,962.51)	358,745	1,160,402	0.005700	6,891	35,111	0.766497	45,807
2018	June	1,382,306	0.236149	(32,314.99)	326,430	1,055,876	0.005700	6,316	41,427	0.766497	54,047
2018	July	1,228,926	0.236149	(36,220.57)	290,210	938,716	0.005700	5,685	47,112	0.766497	61,463
2018	August	1,070,926	0.236149	(37,311.37)	252,898	818,028	0.005700	5,007	52,118	0.766497	67,995
2018	September	919,475	0.236149	(35,765.15)	217,133	702,342	0.005700	4,333	56,451	0.766497	73,648
2018	October	774,804	0.236149	(34,163.73)	182,969	591,835	0.005700	3,688	60,140	0.766497	78,460
2018	November	654,485	0.236149	(28,413.42)	154,556	499,929	0.005700	3,112	63,251	0.766497	82,520
2018	December	617,596	0.236149	(8,711.31)	145,845	471,751	0.005700	2,769	66,021	0.766497	86,133
								66,021			86,133

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1230 Estimated Return Calculation -Non - Residential DSM Programs Vintage 2016

NC Non-F	Residential DSM	Cumulative (Over)/Under Recovery	Current Income Tax Rate 2019	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return 6.84%	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate 0.766497	Gross up of Return to Pretax
Beginnin	g Balance - Source Ride	(250,374)			(59,126)	(191,249)					
2018	January	(251,927)	0.236149	(367)	(59,492)	(192,435)	0.005700	(1,093)	(1,093)	0.766497	(1,427)
2018	February	(230,010)	0.236149	5,176	(54,317)	(175,694)	0.005700	(1,049)	(2,143)	0.766497	(2,795)
2018	March	(210,641)	0.236149	4,574	(49,743)	(160,898)	0.005700	(959)	(3,102)	0.766497	(4,047)
2018	April	(190,319)	0.236149	4,799	(44,944)	(145,375)	0.005700	(873)	(3,975)	0.766497	(5,186)
2018	May	(168,522)	0.236149	5,147	(39,796)	(128,725)	0.005700	(781)	(4,756)	0.766497	(6,205)
2018	June	(145,244)	0.236149	5,497	(34,299)	(110,945)	0.005700	(683)	(5,439)	0.766497	(7,096)
2018	July	(118,634)	0.236149	6,284	(28,015)	(90,619)	0.005700	(574)	(6,014)	0.766497	(7,845)
2018	August	(91,977)	0.236149	6,295	(21,720)	(70,257)	0.005700	(458)	(6,472)	0.766497	(8,444)
2018	September	(65,905)	0.236149	6,157	(15,563)	(50,341)	0.005700	(344)	(6,816)	0.766497	(8,892)
2018	October	(42,923)	0.236149	5,427	(10,136)	(32,786)	0.005700	(237)	(7,053)	0.766497	(9,201)
2018	November	(22,317)	0.236149	4,866	(5,270)	(17,047)	0.005700	(142)	(7,195)	0.766497	(9,386)
2018	December	10,075	0.236149	7,649	2,379	7,696	0.005700	(27)	(7,221)	0.766497	(9,421)
								(7,221)			(9,421)

Note 1: Amounts represent all revenue actually collected through 2018.

Interest Calculation

2018 - Rider 9	Month	NC Program Costs Incurred	Revenue Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Total Cumulative Under/Over Collected			%
Beginning	g Balance	11,594,497	11,354,396	240,102	3,352,151	3,282,731	69,419	309,521	DSM Program Costs	11,594,497	0.78
	January					-	-	309,521	DSM PPI & GRT	3,352,151	0.22
	February					-	-	309,521	Total Revenue Requirement	14,946,648	
	March					-	-	309,521			
	April					-		309,521	-		
	May					-	-	309,521			
	June					-		309,521			
	July					-	-	309,521			
	August					-		309,521			
	September					-	-	309,521			
	October					-		309,521			
	November					-	-	309,521			
	December					-	-	309,521			
YTD Balar	nce	11,594,497	11,354,396	240,102	3,352,151	3,282,731	69,419				

Duke Energy Carolinas, LLC Docket No. E-7, Sub 1192

Estimated Return Calculation -Non - Residential DSM Programs Vintage 2016

Interest Calculation

2019 - Rider 10	Month	NC Program Costs Incurred	Revenue Collected	Undercollected Balance	PPI	Revenue Collected	Undercollected Balance	Total Cumulative Over/Under Collected			
Beginning E	Balance	11,594,497	11,354,396	240,102	3,352,151	3,282,731	69,419	309,521	Note: There was no Non-Reside	ential DSM Rider in Rider 10	
	January	11,554,457	192,582	(192,582)	3,332,131	55,678	(55,678)	61,261	All revenues collected represent		
	February		1,806	(1,806)		522	(522)	58,933	all revenues were allocated on t	· ·	
	March		(2,074)	2,074		(600)	600	61,607		,,,,	
	April		(294)	294		(85)	85	61,986			
	May		20	(20)		6	(6)	61,960			
	June		(7)	7		(2)	2	61,969			
	July		(4)	4		(1)	1	61,974			
	August		(2,270)	2,270		(656)	656	64,901			
	September		(31)	31		(9)	9	64,940			
	October		8	(8)		2	(2)	64,930			
	November		(8)	8		(2)	2	64,940			
	December		4.982	(4,982)		1.440	(1.440)	58,517			
YTD Balanc		-	194,710	(194,710)	-	56,294	(56,294)	58,517	-		
	Ending Balance	11,594,497	11,549,106	45,391	3,352,151	3,339,025	13,125	58,517			
Interest Ca	lculation										
				Cumulative			Cumulative	Total Cumulative			
2020-		NC Program Costs	Revenue	Under/(Over)collected		Revenue	Under/(Over)collected	Over/Under			
Rider 11	Month	Incurred	Collected	Balance	PPI	Collected	Balance	Collected	=		
Beginning E	Balance	11,594,497	11,549,106	45,391	3,352,151	3,339,025	13,125	58,517	Revenue Requirement:		
	January		7,239	38,152	(485)	(3,286)	15,927	54,079	Program Costs	45,391	1.83
	February		41,527	(3,374)	(2,780)	(18,850)	31,998	28,623	PPI	(20,605)	(0.83
	March		36,432	(39,807)	(2,439)	(16,538)	46,097	6,290	Total	24,787	
	April		39,543	(79,349)	(2,647)	(17,950)	61,400	(17,950)			
	May		39,817	(119,166)	(2,665)	(18,074)	76,808	(42,358)			
	June		47,726	(166,892)	(3,195)	(21,664)	95,278	(71,614)	Revenue Collected:	276,923	
	July		49,697	(216,589)	(3,327)	(22,559)	114,510	(102,078)	Less Interest collected:	1,761	
	August		48,648	(265,237)	(3,256)	(22,083)	133,337	(131,900)	Total	275,161	
	September		53,915	(319,152)	(3,609)	(24,474)	154,202	(164,950)			
	October		56,754	(375,906)	(3,799)	(25,762)	176,165	(199,741)			
	November		39,299	(415,205)	(2,631)	(17,839)	191,374	(223,831)			
	December		43,300	(458,505)	(2,898)	(19,655)	208,130	(250,374)			
YTD Balanc	e	-	503,896	(458,505)	(33,730)	(228,735)	208,130	(250,374)			
Cumulative	Ending Balance	11,594,497	12,053,002	(458,505)	3,318,420	3,110,290	208,130	(250,374)			
Interest Ca	lculation										
				Cumulative			Cumulative	Total Cumulative			
2021-		NC Program Costs	Revenue	Under/(Over)collected		Revenue	Under/(Over)collected	Over/Under			
Rider 12	Month	Incurred	Collected	Balance	PPI	Collected	Balance	Collected	-		
Beginning E	Balance	11,594,497	12,053,002	(458,505)	3,318,420	3,110,290	208,130	(250,374)	Revenue Requirement:		
	January		2,504	(461,009)		(952)	209,082	(251,927)	Program Costs	(458,505)	1.83
	February		(40,135)	(420,874)		18,219	190,864	(230,010)	PPI	208,130	(0.83
	March		(35,471)	(385,403)		16,101	174,762	(210,641)	Total	(250,374)	
	April		(37,215)	(348,188)		16,893	157,869	(190,319)			
	May		(39,917)	(308,271)		18,120	139,750	(168,522)			
	June		(42,628)	(265,643)		19,350	120,399	(145,244)	Revenue Collected:	(258,546)	
	July		(48,729)	(216,914)		22,120	98,279	(118,634)	Less Interest collected:	(2,670)	
	August		(48,816)	(168,097)		22,159	76,120	(91,977)	Total	(255,876)	
	September		(47,746)	(120,351)		21,673	54,446	(65,905)			
	October		(42,087)	(78,264)		19,105	35,342	(42,923)	ĺ		
	November		(37,734)	(40,530)		17,129	18,213	(22,317)			
							•				
	December		(50,606)	10,075		22,789	(4,575)	5,500			
			(50,606) (468,580)	10,075 10,075		22,789 212,706	(4,575) (4,575)	5,500 5,500	-		

Duke Energy Carolinas, LLC

DSM/EE Actual Revenues Collected from Years 2017-2019 (By Vintage)

and Estimated 2020 Collections from Rider 11 (by Vintage) Docket Number E-7, Sub 1230

For Vintage Year 2017-2020 Estimate and True Up Calculations

			 Actual 2016 Rider 7	Actual 2017 Rider 8	Actual 2018 Rider 9	Actual 2019 Rider 10	Estimated 2020 Rider 11	(1)	 Total
	Residential								
Line		Vintage							
1	EE/DSM	Year 2016	58,184,868	5,570,022	27,108,101	(2,551,337)	967,614		89,279,269
2	EE/DSM	Year 2017		61,914,541	4,435,871	35,762,325	5,078,935		107,191,672
3		Year 2018			83,631,851	6,302,019	25,178,611		115,112,481
4		Year 2019				77,019,837	5,232,466		82,252,303
5		Year 2020					66,898,601		66,898,601
6	Total Residential		\$ 58,184,868	\$ 67,484,563	\$ 115,175,822	\$ 116,532,845	\$ 103,356,227		\$ 371,455,057
	Non-Residential								
7	EE	Year 2016	45,662,897	8,632,771	36,292,834	(1,438,407)	9,273,079		98,423,175
8		Year 2017		46,928,129	10,882,796	64,212,173	17,144,751		139,167,848
9		Year 2018			51,998,801	12,546,122	14,321,847		78,866,770
10		Year 2019				52,862,599	8,746,000		61,608,599
11		Year 2020					52,968,365		52,968,365
12	DSM	Year 2016	14,637,127	251,004	276,923	(258,546)	14,674		14,921,181
13		Year 2017		15,361,431	(1,084)	86,448	1,084		15,447,879
14		Year 2018			14,074,924	777,733	1,398,093		16,250,749
15		Year 2019				15,674,069			15,674,069
16		Year 2020					19,931,130		19,931,130
17	Total Non-Residential		\$ 60,300,024	\$ 71,173,336	\$ 113,525,193	\$ 144,462,190	\$ 123,799,023	\$-	\$ 513,259,766
18	Total Revenue			\$ 138,657,899	\$ 228,701,016	\$ 260,995,035	\$ 227,155,250		\$ 884,714,823

Rider 11 estimates are based on Order issued in Docket No. E-7 Sub 1192 dated 10/18/19

Duke Energy Carolinas, LLC Vintage Year 2017 Allocation Factors for the Period January 1, 2017 - December 31, 2017 Docket Number E-7, Sub 1230 Allocation Factors

			MWH		
Line	New Mechanism Sales Allocator at Generator				
1	NC Retail MWH Sales Allocation	Company Records	60,219,051		
2	SC Retail MWH Sales Allocation	Company Records	22,489,484		
3	Total Retail	Line 1 + Line 2	82,708,535		
	Allocation 1 to state based on kWh sales				
4	NC Retail	Line 1 / Line 3	72.8087506%		
	Demand Allocators		NC	SC	Total
5	Residential	Company Records	5,545,784	1,803,958	7,349,742
6	Non Residential	Company Records	6,573,854	2,480,404	9,054,258
7	Total	Line 5 + Line 6	12,119,638	4,284,362	16,404,000
	Allocation 2 to state based on peak demand				
8	NC Retail	Line 7, NC / Line 7 Total	73.8822117%		
	Allocation 3 NC res vs non-res Peak Demand to reta	ail system peak			
9	NC Residential	Line 5 NC/ Line 7 Total	33.8075104%		
10	NC Non-residential	Line 6 NC/ Line 7 Total	40.0747013%		
		•	<u> </u>		

Duke Energy Carolinas, LLC Vintage Year 2018 Allocation Factors for the Period January 1, 2018 - December 31, 2018 Docket Number E-7, Sub 1230 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 reta	ail 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%		
			111111111111111111111111111111111111111		

Duke Energy Carolinas, LLC Vintage Year 2019 Allocation Factors for the Period January 1, 2019 - December 31, 2021 Docket Number E-7, Sub 1230 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 reta	il 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%		
			- 51-150-1 176		

Duke Energy Carolinas, LLC DSM/EE Cost Recovery Rider 12 Docket Number E-7 Sub 1230

Forecasted 2021 kWh Sales for Rate Period for Vintage Years 2016-2021

Fall 2019 Sales Forecast - kWhs Forecasted 2021 sales

North Carolina Retail:

Line

1 Residential **22,092,324,452**

2 Non-Residential **35,749,634,396**

3 Total Retail **57,841,958,848**

	NC Opt Out Sales Vintage 2016 Actual Opt Out	Total Usage	Opt-Outs	Net Usage
2	EE	35,749,634,396	19,079,024,043	16,670,610,353
3	DSM	35,749,634,396	18,785,507,588	16,964,126,808
	Vintage 2017 Actual Opt Out			
4	EE	35,749,634,396	19,250,763,452	16,498,870,944
5	DSM	35,749,634,396	18,815,719,996	16,933,914,400
	Vintage 2018 Actual Opt Out			
6	EE	35,749,634,396	19,820,130,197	15,929,504,199
7	DSM	35,749,634,396	18,917,095,657	16,832,538,740
,	DSINI	35,749,034,390	18,917,095,057	10,032,330,740
	Vintage 2019 Actual Opt Out			
8	EE	35,749,634,396	20,042,218,854	15,707,415,542
9	DSM	35,749,634,396	18,852,615,603	16,897,018,794
	Vintage 2020 Estimated Opt Out			
10	EE	35,749,634,396	20,419,288,797	15,330,345,599
11	DSM	35,749,634,396	18,851,271,603	16,898,362,794
	Vintage 2021 Estimated Opt Out			
12	EE	35,749,634,396	20,419,288,797	15,330,345,599
13	DSM	35,749,634,396	18,851,271,603	16,898,362,794

Rider EE (NC) ENERGY EFFICIENCY RIDER

APPLICABILITY (North Carolina Only)

Service supplied under the Company's rate schedules is subject to approved adjustments for new energy efficiency and demand-side management programs approved by the North Carolina Utilities Commission (NCUC). The Rider Adjustments are not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate.

As of January 1, 2021, cost recovery under Rider EE consists of the four-year term program, years 2014-2017, as well as rates under the continuation of that program for years 2018-2021 as outlined below. This Rider applies to service supplied under all rate schedules, except rate schedules OL, FL, PL, GL and NL for program years 2017-2021.

GENERAL PROVISIONS

This Rider will recover the cost of new energy efficiency and demand-side management programs beginning January 1, 2014, using the method approved by the NCUC as set forth in Docket No. E-7 Sub 1032, Order dated October 29, 2013, as revised by Docket No. E-7, Sub 1130, Order dated August 23, 2017.

TRUE-UP PROVISIONS

Rider amounts will initially be determined based on estimated kW and kWh impacts related to expected customer participation in the programs, and will be trued-up as actual customer participation and actual kW and kWh impacts are verified. If a customer participates in any vintage of programs, the customer is subject to the true-ups as discussed in this section for any vintage of programs in which the customer participated.

RIDER EE OPT OUT PROVISION FOR OUALIFYING NON-RESIDENTIAL CUSTOMERS

The Rider EE increment applicable to energy efficiency programs and/or demand-side management programs will not be applied to the energy charge of the applicable rate schedule for customers qualified to opt out of the programs where:

- a The customer has notified the Company that it has implemented, or has plans for implementing, alternative energy efficiency measures in accordance with quantifiable goals.
- b. Electric service to the customer must be provided under:
 - An electric service agreement where the establishment is classified as a "manufacturing industry" by the Standard Industrial Classification Manual published by the United States Government and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes. Additionally, all other agreements billed to the same entity associated with the manufacturing industry located on the same or contiguous properties are also eligible to opt out.
 - 2 An electric service agreement for general service as provided for under the Company's rate schedules where the customer's annual energy use is 1,000,000 kilowatt hours or more. Additionally, all other agreements billed to the same entity with lesser annual usage located on the same or contiguous properties are also eligible to opt out.

The following additional provisions apply for qualifying customers who elect to opt out:

For customers who elect to opt out of energy efficiency programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's energy efficiency programs each calendar year only during the annual two-month enrollment period between November 1 and December 31 immediately prior to a new Rider EE becoming effective on January 1. (Qualifying new customers have sixty days after beginning service to optout).
- Customers may not opt out of individual energy efficiency programs offered by the Company. The choice to opt out applies to the Company's entire portfolio of energy efficiencyprograms.
- If a customer participates in any vintage of energy efficiency programs, the customer, irrespective of future opt out decisions, remains obligated to pay the remaining portion of the lost revenues for each vintage of energy efficiency programs in which the customer participated.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE
 becoming effective may elect to opt in to the Company's energy efficiency programs during the first 5 business days of
 March each calendar year. Customers making this election will be back-billed retroactively to the effective date of the
 new Rider EE.

For customers who elect to opt out of demand-side management programs, the following provisions also apply:

• Qualifying customers may opt out of the Company's demand-side management program during the enrollment period between November 1 and December 31 immediately prior to a new Rider EE becoming effective on January 1 of the applicable year. (Qualifying new customers have sixty days after beginning service to opt out).

Rider EE (NC) ENERGY EFFICIENCY RIDER

- If a customer elects to participate in a demand-side management program, the customer may not subsequently choose to opt out of demand-side management programs for three years.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE
 becoming effective may elect to opt in to the Company's demand-side management program during the first 5 business
 days of March each calendar year. Customers making this election will be back-billed to the effective date of the new
 Rider EE.

Any qualifying non-residential customer that has not participated in an energy efficiency or demand-side management program may opt out during any enrollment period, and has no further responsibility to pay Rider EE amounts associated with the customer's opt out election for energy efficiency and/or demand-side management programs.

ENERGY EFFICIENCY RIDER ADJUSTMENTS (EEA) FOR ALL PROGRAM YEARS

The Rider EE amounts applicable to the residential and nonresidential rate schedules for the period January 1, 2021 through December 31, 2021 including utility assessments are as follows:

Residential	Vintage 2016 ¹ , 2017 ¹ , 2018 ¹ , 2019 ¹ Vintage 2019 ² , 2020 ² , 2021 ² Total Residential Rate	0.1011¢ per kWh <u>0.4184¢ per kWh</u> 0.5195¢ per kWh
Nonresidential	<u>l</u>	
Vintage	2016^3	
En	ergy Efficiency	0.0193¢ per kWh
De	emand Side Management	(0.0001)¢ per kWh
Vintage	e 2017 ³	
_	ergy Efficiency	0.0342¢ per kWh
De	emand Side Management	0.0000¢ per kWh
Vintage	e 2018 ³	
_	ergy Efficiency	0.0088¢ per kWh
	emand Side Management	(0.0014)¢ per kWh
Vintage	e 2019 ³	
_	ergy Efficiency	0.0462¢ per kWh
	emand Side Management	0.0019¢ per kWh
Vintage	$\approx 2020^3$	
	ergy Efficiency	0.0612¢ per kWh
	emand Side Management	0.0000¢ per kWh
Vintage	2021 ³	
	ergy Efficiency	0.3522¢ per kWh
	mand Side Management	0.1200¢ per kWh
Total N	onresidential	0.6423¢ per kWh

¹ Includes the true-up of program costs, shared savings and lost revenues from Year 1 of Vintage 2019 and Year 2 of Vintage 2018, Year 3 of 2017 and Year 4 of 2016

Each factor listed under Nonresidential is applicable to nonresidential customers who are not eligible to opt out and to eligible customers who have not opted out. If a nonresidential customer has opted out of a Vintage(s), then the applicable energy efficiency and/or demand-side management charge(s) shown above for the Vintage(s) during which the customer has opted out, will not apply to the bill.

² Includes prospective component of Vintage 2019, 2020 and 2021

³ Not Applicable to Rate Schedules OL, FL, PL, GL, and NL.

NC Residential Revenue Requirement

D * E

Duke Energy Carolinas, LLC Vintage 2017 Actual for January 1, 2017 to December 31, 2017 Docket Number E-7, Sub 1230

Load Impacts and Estimated Revenue Requirements, excluding Lost Revenue by Program

System Cost

A System NPV of

Avoided Cost

System Energy

Reduction (kWh)

System kW Reduction -

Summer Peak

Residential Programs

C = (A-B) *11.5%

Earned Utility Incentive

D= B+C

System Cost Plus Incentive

NC Retail kWh Sales Allocation

Factor (Miller Exhibit 5 pg. 1)

nesidential i ogranis					-,			-,		(
EE Programs												
1 Appliance Recycling Program	-		\$ -	\$	5,307	\$	(610)	\$	4,697	72.8087506%	Ś	3,420
2 Energy Efficiency Education	1,393	5,932,086	3,597,724		2,077,611		174,813		2,252,424	72.8087506%		1,639,962
3 Energy Efficient Appliances and Devices	24,605	137,909,103	105,352,687		30,340,728		8,626,375		38,967,103	72.8087506%		28,371,461
4 Residential – Smart \$aver Energy Efficiency Program	1,850	6,712,977	7,287,263		7,403,327		(13,347)		7,389,980	72.8087506%		5,380,552
5 Income Qualified Energy Efficiency and Weatherization Assistance	771	5,341,624	3,185,867		5,505,992		(13,347)		5,505,992	72.8087506%		4,008,844
										72.8087506%		
6 Multi-Family Energy Efficiency	2,056	19,038,529	13,539,656		3,168,422		1,192,692		4,361,114			3,175,272
7 Energy Assessments	1,040	7,720,549	6,602,773		2,909,098		424,773		3,333,871	72.8087506%		2,427,350
8 Subtotal	31,715	182,654,868	\$ 139,565,970	\$		\$	10,404,695	\$	61,815,181		\$	45,006,861
9 My Home Energy Report (1)	79,070	311,368,855	21,728,369		13,812,250		910,354		14,722,603	72.8087506%		10,719,344
10 Total for Residential Energy Efficiency Programs	110,786	494,023,724	\$ 161,294,339	\$	65,222,736	\$	11,315,049	\$	76,537,785		\$	55,726,205
										NC Residential Peak Demand		
										Allocation Factor (Miller Exhibit 5		
										pg. 1)		D11* E11
11 SubTotal DSM Programs (2)	846,941	2,943,906	105,087,510	\$	29,822,652	\$	8,655,459	Ś	38,478,111	33.8075104%	Ś	13,008,491
12 Total DSM Programs	2.0,2.2	_,,	,,	*	,,		-,,	*	,,	***************************************	<u>, </u>	13,008,491
13 Total Residential Revenue Requirement											\$	68,734,696
											NC Non-Resid	ential Revenue Requirement
	System kW Reduction -	System Energy	System NPV of							NC Retail kWh Sales Allocation		
	Summer Peak	Reduction (kWh)	Avoided Cost		System Cost	Earn	ed Utility Incentive	System	Cost Plus Incentive	Factor (Miller Exhibit 5 pg. 2)		D*E
Non-Residential Programs												_
EE Programs												
14 Non Residential Smart Saver Custom Energy Assessments	1,627	15,791,732	\$ 10,272,302	\$	2,139,875	\$	935,229	\$	3,075,104	72.8087506%	\$	2,238,945
15 Non Residential Smart Saver Custom	6,010	40,609,855	34,693,083		7,304,838		3,149,648		10,454,486	72.8087506%		7,611,781
16 Non Residential Smart Saver Energy Efficient Food Service Products	112	1,383,542	959,251		306,488		75,068		381,556	72.8087506%		277,806
17 Non Residential Smart Saver Energy Efficient HVAC Products	894	2,954,877	2,958,336		1,560,769		160,720		1,721,489	72.8087506%		1,253,395
18 Non Residential Smart Saver Energy Efficient Lighting Products	47,322	270,572,885	240,054,511		66,689,770		19,936,945		86,626,715	72.8087506%		63,071,829
19 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	687	4,806,849	3,070,044		528,937		292,227		821,164	72.8087506%		597,879
20 Non Residential Smart Saver Energy Efficient IT Products	-	2,945	523		61,215		(6,980)		54,235	72.8087506%		39,488
21 Non Residential Smart Saver Energy Efficient Process Equipment Products	99	651,289	530,295		162,413		42,306		204,719	72.8087506%		149,054
22 Non Residential Smart Saver Performance Incentive	3	12,373	8,958		320,559		(35,834)		284,725	72.8087506%		207,305
	-											
23 Small Business Energy Saver	17,263	90,297,362	63,169,894		17,350,972		5,269,176		22,620,148	72.8087506%		16,469,447
24 Smart Energy in Offices	2,138	10,272,154	1,067,480		891,010		20,294		911,304	72.8087506%		663,509
25 Business Energy Report	3_	42,398	696	_	126,680				126,680	72.8087506%		92,234
26 Sub-Total for Non-Residential Energy Efficiency Programs	76,158	437,398,260	\$ 356,785,373	\$	97,443,527	\$	29,838,800	\$	127,282,328		\$	92,672,672
27 Total for Non-Residential Energy Efficiency Programs											\$	92,672,672
										NC Non-Residential Peak Demand		
										Allocation Factor (Miller Exhibit 5		
										pg. 1)		D24*E24
28 Total DSM Programs(2)	846,941	2,943,906	\$ 105,087,510	\$	29,822,652	\$	8,655,459	\$	38,478,111	40.0747013%	\$	15,419,988
29 Total Non-Residential DSM Programs												15,419,988
<u> </u>											_	
30 Total Non-Residential Revenue Requirement											\$	108,092,661
										NC Retail Peak Demand		
										Allocation Factor (Miller Exhibit 5		
Total DSM Program Breakdown										pg. 1)		D29* E29
31 Power Manager (Residential)	501,118		\$ 61,074,105	\$	14,021,500	\$	5,411,050	\$	19,432,549	•		
32 EnergyWise for Business (Non-Residential)	5,453	2,943,906	\$ 2,530,761	\$	2,484,618	\$	5,306	\$	2,489,924			
33 Power Share CallOption (Non-Residential)	-,	,. ,,	\$ -	Ś	, . ,	Ś	.,	Ś	,,.=			
34 Power Share (Non-Residential)	340,369		\$ 41,482,644	Ś	13,316,535	Š	3,239,103	Š	16,555,638			
35 Total DSM	846,941	2,943,906	\$ 105,087,510	\$		Ś	8,655,459	\$	38,478,111	73.8822117%	Ś	28,428,479
	5-10,541	2,5-13,500	- 105,007,510	Ÿ	23,022,032	Ÿ	0,033,433	~	50,470,111	/3.00EE11//	-	20,423,473

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

Demand Allocation Factor

73.6287551%

56.324846% (E10+E26) *F26 *G26

Ś

15.940.429

67,632,221

146,028,982

2,972,789

15,578,309

18.551.097

89,641,214

200,345,067

(90,028)

2,655,332

2.565.304

22,390,972

41.339.396

Duke Energy Carolinas Evans Exhibit 1

Vintage 2018 True Up - January 1, 2018 to December 31, 2018

Docket Number E-7, Sub 1230 Load Impacts and Estimated Revenue Requirements by Program

=(A-B)*C = (B+D) System kW System NPV of Avoided System Revenue Reduction - Summer NC Retail kWh Sales NC Residential Revenue Total Cost Shared Savings % Incentive Requirement **Residential Programs** Peak Reduction (kWh) Allocation Factor Factor (2) Requirement **EE Programs** 1 Energy Efficiency Education 2,863,507 1,992,260 100,193 2,092,453 72.7130507% E1 * F1 2 Energy Efficient Appliances and Devices 32.802 195,213,017 135.857.936 42.687.244 11.5% 10.714.630 53.401.873 72.7130507% E2 * F2 38,830,131 E3 * F3 3 HVAC Energy Efficiency 1.640 6.367.174 7.088.531 6.955.146 11.5% 15.339 6.970.485 72.7130507% 5.068.453 4 Income Qualified 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 2,303 21,288,910 13.857.877 3,604,921 11.5% 1.179.090 4,784,011 72.7130507% F5 * F5 3.478.601 7,716,668 5,756,902 2,836,229 11.5% 3,172,106 72.7130507% E6 * F6 6 Energy Assessments 929 335,877 2,306,535 7 Total for Residential Conservation Programs 55,924,818 72.7130507% E8 * F8 8 My Home Energy Report (1) 95,887 344,759,844 22,684,688 12,765,286 11.5% 1,140,731 13,906,017 10,111,489 9 Total Residential Conservation and Behavioral Programs 587,721,974 135,416 192,363,074 77,331,820 13,485,861 90,817,681 66,036,307 NC Residential Peak Demand Allocation Factor 43.675154% 10 PowerManager 533,506 61.924.152 14.423.610 11.5% 5.462.562 19.886.172 73.6287551% (E10+E26) *F10 *G10 12.360.454 11 Total Residential 587,721,974 18,948,423 110,703,853 668,922 254,287,226 91,755,430 78,396,761 System kW System NPV of Avoided System Revenue Reduction - Summer System Energy Total Cost Shared Savings % Incentive NC Retail kWh Sales NC Non-Residential Revenue Costs Requirement Peak Reduction (kWh) Allocation Factor Requirement **Non-Residential Programs EE Programs** 12 Non Residential Smart Saver Custom Technical Assessments 83,588 407,293 72.7130507% 13 Non Residential Smart Saver Custom 4.054 30.333.040 23.322.046 6.068.902 11.5% 1.984.112 8.053.013 72 7130507% F13 * F13 5.855.592 14 Non Residential Smart Saver Energy Efficient Food Service Products 431,679 72.7130507% E14 * F14 187,711 59 235.605 11.5% 258.153 741.466 22.549 15 Non Residential Smart Saver Energy Efficient HVAC Products 72.7130507% E16 * F16 893 2,908,386 2,810,168 1,620,748 11.5% 136,783 1,757,531 1,277,955 16 Non Residential Smart Saver Energy Efficient Lighting Products 31,556 178,171,791 146.534.847 25,872,380 11.5% 13,876,184 39,748,564 72.7130507% F17 * F17 28,902,393 17 Non Residential Energy Efficient Pumps and Drives Products 421 2,669,016 1,617,749 154,096 431,881 72.7130507% E18 * F18 314,034 277,785 11.5% 18 Non Residential Energy Efficient ITEE 3,025 36,875 11.5% 32,982 72.7130507% E19 * F19 23,982 75 19 Non Residential Energy Efficient Process Equipment Products 331.222 226.725 67.509 11.5% 18.310 85.819 72.7130507% E20 * F20 62.402 20 Non Residential Smart Saver Performance Incentive 72.7130507% E21 * F21 168 3,271,186 1,671,793 479,610 11.5% 137,101 616,711 448,429 21 Small Business Energy Saver 13,374 76,696,523 46,832,942 15,977,993 11.5% 3,548,319 19,526,312 72.7130507% E22 * F22 14,198,177 22 Smart Energy in Offices 310 1.488.592 143 285 219.748 11.5% (8,793) 210,954 72.7130507% F23 * F23 153 391 23 Total for Non-Residential Conservation Programs 223,661,565 51,264,448 19,825,668 51,691,792 50,922 296,712,448 71,090,116 NC Non-Residential Peak

3,062,816

12,922,977

15.985.794

67,250,242

159.005.671

11.5%

11.5%

Total All Programs 1,060,474 887,034,326 \$ 516,241,575

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages

7,999

332,631

340.629

391,552

2,599,904

2.599.904

299,312,352

2,279,967

36,012,817

38.292.784

261,954,349

(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

24 EnergyWise for Business

27 Total Non Residential

26 Total for Non-Residential DSM Programs

Duke Energy Carolinas Evans Exhibit 1 Vintage 2019 True Up - January 1, 2019 to December 31, 2019 Docket Number E-7, Sub 1230 Load Impacts and Estimated Revenue Requirements by Program

				A	В	c		D =(A-B)*C	E = (B+D)	F	G			н
Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)		PV of Avoided Costs	Total Cost	Shared Savings %	ı	ncentive	System Revenue Requirement	NC Retail kWh Sales Allocation Factor	NC Allocation Factor (2)			dential Revenue
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	31,803	187,351,705	\$	102,051,327	\$ 40,433,533	11.5%	\$	7,086,046	\$ 47,519,579	73.0903918%		E2 * F2	\$	34,732,247
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 Income Qualified Energy Efficiency and Weatherization Assistance	1,074	8,782,273	\$	3,570,760	\$ 7,344,325	0.0%	\$	-	\$ 7,344,325	73.0903918%		E4 * F4	\$	5,367,996
5 Multi-Family Energy Efficiency	2,649	24,086,174	\$	11,891,700	\$ 3,681,262	11.5%	\$	944,200	\$ 4,625,463	73.0903918%		E5 * F5	\$	3,380,769
6 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	39,343	242,149,969	\$	131,526,956	\$ 63,659,861		\$	8,238,676	\$ 71,898,537				\$	52,550,923
8 My Home Energy Report (1)	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	130,729	570,589,071	\$	154,888,911	\$ 74,218,205		\$	9,711,091	\$ 83,929,296				\$	61,344,252
										NC Residential Peak Demand Allocation Factor				
LO PowerManager	568,235		ė	69,783,157	\$ 13,386,942	11.5%	é	6,485,565	\$ 19,872,507	74.2414264%	45.955615%	(E10+E26) *F10 *G10	e	13,583,508
11 Total Residential	698.965	570.589.071	\$	224.672.068	\$ 87.605.147	11.5%	\$	16.196.656	\$ 103.801.803	74.2414204%	45.955015%	(E10+E20) -F10 -G10	3	74,927,760
Total residential		370,303,071	,	224,072,000	\$ 07,003,247		-	10,150,050	2 103,001,003				-	74,527,700
	System kW Reduction	System Energy		V of Avoided	Total Cost	Shared Savings %		ncentive	System Revenue	NC Retail kWh Sales			NC Non-R	esidential Revenue
	- Summer Peak	Reduction (kWh)		Costs					Requirement	Allocation Factor				equirement
Non-Residential Programs														
EE Programs														
12 Non Residential Smart Saver Custom Technical Assessments	148	1,930,762	\$	691,285	\$ 296,006	11.5%	\$	45,457	\$ 341,463	73.0903918%		E12 * F12	\$	249,577
13 Non Residential Smart Saver Custom	10,109		\$						\$ 11,980,079				\$	8,756,287
14 Non Residential Smart Saver Energy Efficient Food Service Products		52,522,612	>	35,884,367	\$ 8,873,872	11.5%	\$	3,106,207	5 11,980,079	73.0903918%		E13 * F13	÷ ·	
	76	52,522,612 870,041	\$	35,884,367 364,227	\$ 8,873,872 \$ 339,996	11.5% 11.5%	\$ \$	2,787	\$ 342,782	73.0903918% 73.0903918%		E13 * F13 E14 * F14	\$	250,541
			\$											250,541 1,805,202
15 Non Residential Smart Saver Energy Efficient HVAC Products	76	870,041	\$ \$ \$	364,227	\$ 339,996	11.5%	\$	2,787	\$ 342,782	73.0903918%		E14 * F14 E16 * F16 E17 * F17	\$	
15 Non Residential Smart Saver Energy Efficient HVAC Products 16 Non Residential Smart Saver Energy Efficient Lighting Products	76 1,367	870,041 5,950,986	\$ \$ \$ \$	364,227 4,481,911	\$ 339,996 \$ 2,208,364	11.5% 11.5%	\$	2,787 261,458	\$ 342,782 \$ 2,469,822	73.0903918% 73.0903918%		E14 * F14 E16 * F16	\$	1,805,202
5 Non Residential Smart Saver Energy Efficient HVAC Products 6 Non Residential Smart Saver Energy Efficient Lighting Products 7 Non Residential Energy Efficient Pumps and Drives Products	76 1,367 28,280	870,041 5,950,986 149,658,444	\$ \$ \$ \$ \$	364,227 4,481,911 97,967,602	\$ 339,996 \$ 2,208,364 \$ 20,834,766	11.5% 11.5% 11.5%	\$	2,787 261,458 8,870,276	\$ 342,782 \$ 2,469,822 \$ 29,705,042	73.0903918% 73.0903918% 73.0903918%		E14 * F14 E16 * F16 E17 * F17	\$ \$ \$	1,805,202 21,711,532
15 Non Residential Smart Saver Energy Efficient HVAC Products (8 Non Residential Smart Saver Energy Efficient Lighting Products (7 Non Residential Energy Efficient Pumps and Drives Products (8 Non Residential Energy Efficient ITEE (9 Non Residential Energy Efficient Process Equipment Products	76 1,367 28,280	870,041 5,950,986 149,658,444 1,043,899	\$ \$ \$ \$ \$	364,227 4,481,911 97,967,602 510,415	\$ 339,996 \$ 2,208,364 \$ 20,834,766 \$ 189,172	11.5% 11.5% 11.5% 11.5%	\$	2,787 261,458 8,870,276 36,943	\$ 342,782 \$ 2,469,822 \$ 29,705,042 \$ 226,115	73.0903918% 73.0903918% 73.0903918% 73.0903918%		E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20	\$ \$ \$ \$	1,805,202 21,711,532 165,268
15 Non Residential Smart Saver Energy Efficient HVAC Products (8 Non Residential Smart Saver Energy Efficient Lighting Products (7 Non Residential Energy Efficient Pumps and Drives Products (8 Non Residential Energy Efficient ITEE (9 Non Residential Energy Efficient Process Equipment Products	76 1,367 28,280 166 - 84 391	870,041 5,950,986 149,658,444 1,043,899 8,442	* * * * * * * *	364,227 4,481,911 97,967,602 510,415 1,038	\$ 339,996 \$ 2,208,364 \$ 20,834,766 \$ 189,172 \$ 44,335	11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$	2,787 261,458 8,870,276 36,943 (4,979)	\$ 342,782 \$ 2,469,822 \$ 29,705,042 \$ 226,115 \$ 39,355	73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918%		E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21	\$ \$ \$ \$	1,805,202 21,711,532 165,268 28,765
15 Non Residential Smart Saver Energy Efficient HVAC Products (16 Non Residential Smart Saver Energy Efficient Lighting Products 17 Non Residential Energy Efficient Pumps and Drives Products 18 Non Residential Energy Efficient TEE 19 Non Residential Energy Efficient Process Equipment Products 10 Non Residential Smart Saver Performance Incentive	76 1,367 28,280 166 - 84	870,041 5,950,986 149,658,444 1,043,899 8,442 540,487	* * * * * * * * *	364,227 4,481,911 97,967,602 510,415 1,038 310,293	\$ 339,996 \$ 2,208,364 \$ 20,834,766 \$ 189,172 \$ 44,335 \$ 119,843	11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$	2,787 261,458 8,870,276 36,943 (4,979) 21,902	\$ 342,782 \$ 2,469,822 \$ 29,705,042 \$ 226,115 \$ 39,355 \$ 141,745	73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918%		E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20	\$ \$ \$ \$ \$	1,805,202 21,711,532 165,268 28,765 103,602
15 Non Residential Smart Saver Energy Efficient HYAC Products (6 Non Residential Smart Saver Energy Efficient Lighting Products (7 Non Residential Energy Efficient TEE (8) Non Residential Energy Efficient TIEE (9) Non Residential Energy Efficient TIEE (9) Non Residential Energy Efficient Process Equipment Products (0) Non Residential Energy Efficient Process Equipment Products (1) Non Residential Smart Saver Performance Incentive (1) Small Business Energy Saver	76 1,367 28,280 166 - 84 391	870,041 5,950,986 149,658,444 1,043,899 8,442 540,487 4,545,995	* * * * * * * * * *	364,227 4,481,911 97,967,602 510,415 1,038 310,293 2,238,186	\$ 339,996 \$ 2,208,364 \$ 20,834,766 \$ 189,172 \$ 44,335 \$ 119,843 \$ 785,165	11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$ \$ \$	2,787 261,458 8,870,276 36,943 (4,979) 21,902 167,097	\$ 342,782 \$ 2,469,822 \$ 29,705,042 \$ 226,115 \$ 39,355 \$ 141,745 \$ 952,262	73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918%		E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21	* * * * * * *	1,805,202 21,711,532 165,268 28,765 103,602 696,012
5 Non Residential Smart Saver Energy Efficient HVAC Products 6 Non Residential Smart Saver Energy Efficient Lighting Products 7 Non Residential Energy Efficient Type State St	76 1,367 28,280 166 - 84 391	870,041 5,950,986 149,658,444 1,043,899 8,442 540,487 4,545,995	* * * * * * * * * * * * * * * * * * * *	364,227 4,481,911 97,967,602 510,415 1,038 310,293 2,238,186	\$ 339,996 \$ 2,208,364 \$ 20,834,766 \$ 189,172 \$ 44,335 \$ 119,843 \$ 785,165	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%		2,787 261,458 8,870,276 36,943 (4,979) 21,902 167,097	\$ 342,782 \$ 2,469,822 \$ 29,705,042 \$ 226,115 \$ 39,355 \$ 141,745 \$ 952,262	73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918%		E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	* * * * * * * * *	1,805,202 21,711,532 165,268 28,765 103,602 696,012 9,544,901
15 Non Residential Smart Saver Energy Efficient HYAC Products 16 Non Residential Smart Saver Energy Efficient Lighting Products 17 Non Residential Energy Efficient Dynnia Smart Saver Energy Efficient Dynnia Smart Saver Energy Efficient Process Equipment Products 19 Non Residential Energy Efficient Process Equipment Products 20 Non Residential Smart Saver Performance Incentive 21 Small Bouriness Energy Saver 22 Smart Energy Fortices	76 1,367 28,280 166 - 84 391 9,196	870,041 5,950,986 149,658,444 1,043,899 8,442 540,487 4,545,995 53,674,194	* * * * * * * * * * * * * * * * * * * *	364,227 4,481,911 97,967,602 510,415 1,038 310,293 2,238,186 25,661,729	\$ 339,996 \$ 2,208,364 \$ 20,834,766 \$ 189,172 \$ 44,335 \$ 119,843 \$ 785,165 \$ 11,421,399 \$ -	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%		2,787 261,458 8,870,276 36,943 (4,979) 21,902 167,097 1,637,638	\$ 342,782 \$ 2,469,822 \$ 29,705,042 \$ 226,115 \$ 39,355 \$ 141,745 \$ 952,262 \$ 13,059,037 \$	73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918%		E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	***	1,805,202 21,711,532 165,268 28,765 103,602 696,012 9,544,901
15 Non Residential Smart Saver Energy Efflicient HYAC Products 16 Non Residential Smart Saver Energy Efflicient Lighting Products 17 Non Residential Energy Efficient Pumps and Drives Products 18 Non Residential Energy Efficient Process Equipment Products 19 Non Residential Energy Efficient Process Equipment Products 10 Non Residential Smart Saver Performance Incentive 12 Smart Energy Saver 12 Smart Energy in Offices 13 Total for Non-Residential Conservation Programs	76 1,367 28,280 166 168 84 391 9,196 - 49,817	870,041 5,950,966 149,658,444 1,043,899 8,442 540,487 4,545,995 53,674,194	* * * * * * * * * * * * * * * * * * * *	364,227 4,481,911 97,967,602 510,415 1,038 310,293 2,238,186 25,661,729 - 168,111,054	\$ 339,996 \$ 2,208,364 \$ 20,834,766 \$ 189,172 \$ 44,335 \$ 119,843 \$ 785,165 \$ 11,421,399 \$ \$ 45,112,917	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,787 261,458 8,870,276 36,943 (4,979) 21,902 167,097 1,637,638	\$ 342,782 \$ 2,469,822 \$ 29,705,042 \$ 226,115 \$ 39,355 \$ 141,745 \$ 952,762 \$ 13,059,037 \$ - \$ 59,257,703	73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918%		E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	***	1,805,202 21,711,532 165,268 28,765 103,602 696,012 9,544,901
5 Non Residential Smart Saver Energy Efficient HyRAC Products 6 Non Residential Smart Saver Energy Efficient HyRAC products 7 Non Residential Energy Efficient Type Efficient Dyrus Products 8 Non Residential Energy Efficient Process Equipment Products 9 Non Residential Energy Efficient Process Equipment Products 10 Non Residential Smart Saver Performance Incentive 11 Small Business Energy Saver 2 Smart Energy In Offices 3 Total for Non-Residential Conservation Programs	76 1.367 28.280 166 84 391 9,196 49,817	870,041 5,950,986 149,658,444 1,043,899 8,442 540,487 4,545,995 53,674,194	* * * * * * * * * * * * * * * * * * * *	364,227 4,481,911 97,967,602 510,415 1,038 310,293 2,238,186 25,661,729 - 168,111,054	\$ 339.996 \$ 2,08.364 \$ 20,834,766 \$ 189,172 \$ 44,335 \$ 119,843 \$ 785,165 \$ 11,421,399 \$ 45,112,917	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%		2,787 261,458 8,870,276 36,943 (4,979) 21,902 167,097 1,637,638 - 14,144,786	\$ 342,782 \$ 2,469,822 \$ 29,705,042 \$ 226,115 \$ 39,355 \$ 141,745 \$ 952,262 \$ 13,059,037 \$ 5 \$ 59,257,703	73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918%		E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	***	1,805,202 21,711,532 165,268 28,765 103,602 696,012 9,544,901
5. Non Residential Smart Saver Energy Efficient HYAC Products 6. Non Residential Smart Saver Energy Efficient Lighting Products 7. Non Residential Energy Efficient Period Products 8. Non Residential Energy Efficient Process Equipment Products 9. Non Residential Energy Efficient Process Equipment Products 10. Non Residential Energy Efficient Process Equipment Products 12. Smart Saver Performance Incentive 13. The Product Saver Saver Performance Incentive 13. The Product Saver	76 1,367 28,280 166 16 184 391 9,196 - 49,817	870,041 5,950,986 149,658,444 1,043,899 8,442 540,487 4,545,995 53,674,194 	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	364,227 4,481,911 97,967,602 510,415 1,038 310,293 2,238,186 25,661,729 168,111,054	\$ 339,996 \$ 2,208,364 \$ 20,834,766 \$ 189,172 \$ 44,335 \$ 119,843 \$ 785,165 \$ 11,421,399 \$	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%		2,787 261,458 8,870,276 36,943 (4,979) 21,902 167,097 1,637,638 14,144,786	\$ 342,782 \$ 2,469,822 \$ 29,705,042 \$ 226,115 \$ 39,355 \$ 141,745 \$ 952,262 \$ 13,059,037 \$ \$ 59,257,703	73.0093918% 73.0093918% 73.0093918% 73.0093918% 73.0093918% 73.0093918% 73.0093918% 73.0093918% 73.0093918% NC Non-Residential Peak Demand Allocation Factor		E14 * F44 E15 * F46 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22 E23 * F23	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,805,202 21,711,532 165,268 28,765 103,602 696,012 9,544,901 - 43,311,687
15 Non Residential Smart Saver Energy Efficient NAC Products 16 Non Residential Smart Saver Energy Efficient Ughting Products 17 Non Residential Energy Efficient Ughting Products 18 Non Residential Energy Efficient Process Equipment Products 18 Non Residential Energy Efficient TIEE 19 Non Residential Energy Efficient Process Equipment Products 20 Non Residential Energy Efficient TiEE 21 Small Business Energy Saver 22 Smart Energy in Offices 23 Total for Non-Residential Conservation Programs 24 EnergyWilse for Business 25 PowerShare 26 Total for Non-Residential DSM Programs	76 1.367 28.280 166 84 391 9,196 49,817	870,041 5,950,966 149,658,444 1,043,899 8,442 540,487 4,545,995 53,674,194	* * * * * * * * * * * * * * * * * * * *	364,227 4,481,911 97,967,602 510,415 1,038 310,293 2,238,186 25,661,729 - 168,111,054	\$ 339.996 \$ 2,08.364 \$ 20,834,766 \$ 189,172 \$ 44,335 \$ 119,843 \$ 785,165 \$ 11,421,399 \$ 45,112,917	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,787 261,458 8,870,276 36,943 (4,979) 21,902 167,097 1,637,638 - 14,144,786	\$ 342,782 \$ 2,469,822 \$ 29,705,042 \$ 226,115 \$ 39,355 \$ 141,745 \$ 952,262 \$ 13,059,037 \$ 5 \$ 59,257,703	73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918% 73.0903918%	54.044385%	E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	***	1,805,202 21,711,532 165,268 28,765 103,602 696,012
S Non Residential Smart Saver Energy Efficient lighting Products 6 Non Residential Smart Saver Energy Efficient lighting Products 7 Non Residential Energy Efficient Teyr Efficient Debrugs and Drives Products 8 Non Residential Energy Efficient Process Equipment Products 9 Non Residential Energy Efficient Process Equipment Products 1 Small Business Energy Saver 2 Smart Energy Hoffices 3 Total for Non-Residential Conservation Programs 4 EnergyWise for Business 5 PowerShare 6 Total for Non-Residential DSM Programs	76 1,367 28,280 166 16 184 391 9,196 - 49,817	870,041 5,950,986 149,658,444 1,043,899 8,442 540,487 4,545,995 53,674,194 	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	364,227 4,481,911 97,967,602 510,415 1,038 310,293 2,238,186 25,661,729 168,111,054	\$ 339,996 \$ 2,208,364 \$ 20,834,766 \$ 189,172 \$ 44,335 \$ 119,843 \$ 785,165 \$ 11,421,399 \$	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%		2,787 261,458 8,870,276 36,943 (4,979) 21,902 167,097 1,637,638 14,144,786	\$ 342,782 \$ 2,469,822 \$ 29,705,042 \$ 226,115 \$ 39,355 \$ 141,745 \$ 952,262 \$ 13,059,037 \$ \$ 59,257,703	73.0093918% 73.0093918% 73.0093918% 73.0093918% 73.0093918% 73.0093918% 73.0093918% 73.0093918% 73.0093918% NC Non-Residential Peak Demand Allocation Factor	54.044385%	E14 * F44 E15 * F46 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22 E23 * F23	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,805,202 21,711,532 165,268 28,765 103,602 996,012 9,544,901 - 43,311,687
15 Non Residential Smart Saver Energy Efflicient HYAC Products 16 Non Residential Smart Saver Energy Efflicient Lighting Products 17 Non Residential Energy Efficient Promps and Drives Products 18 Non Residential Energy Efficient Process Equipment Products 19 Non Residential Energy Efficient Process Equipment Products 20 Non Residential Smart Saver Performance Incentive 21 Small Business Energy Saver 22 Smart Energy in Offices 23 Total for Non-Residential Conservation Programs 24 EnergyWilse for Business 25 PowerShare	76 1,367 28,280 166 16 84 391 9,196 49,817 11,598 342,590 354,188	870,041 5,550,966 149,658,444 1,043,899 8,442 540,487 4,545,995 53,674,194 270,745,861 2,704,118	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	364,227 4,481,911 97,967,602 510,415 1,038 310,293 2,238,186 25,661,729 168,111,054 2,728,428 42,072,382 44,800,810	\$ 339.996 \$ 2,08.364 \$ 20,834,766 \$ 189,172 \$ 44,335 \$ 119,843 \$ 785,165 \$ 11,421,399 \$ 45,112,917 \$ 3,687,462 \$ 13,022,816 \$ 16,710,278	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%		2,787 261,458 8,870,276 36,943 (4,979) 21,902 167,097 1,637,638 14,144,786 (110,289) 3,340,700 3,230,411	\$ 342,782 \$ 2,469,822 \$ 29,705,042 \$ 226,115 \$ 39,355 \$ 141,745 \$ 992,262 \$ 13,099,037 \$ 59,257,703 \$ 3,577,173 \$ 16,363,516 \$ 19,940,689	73.0093918% 73.0093918% 73.0093918% 73.0093918% 73.0093918% 73.0093918% 73.0093918% 73.0093918% 73.0093918% NC Non-Residential Peak Demand Allocation Factor	54.044385%	E14 * F44 E15 * F46 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22 E23 * F23	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	1,805,202 21,711,532 165,268 28,765 103,602 95,644,901 - 43,311,687

s lotal air Programs

(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 Estimate - January 1, 2021 to December 31, 2021 Docket Number E-7, Sub 1230

Load Impacts and Estimated Revenue Requirements by Program

С

=(A-B)*C = (B+D) System kW System kW System NPV of Avoided System Revenue Reduction - Summer Reduction - Winter System Energy Total Cost Shared Savings % Incentive NC Retail kWh Sales NC Allocation NC Residential Revenue Costs Requirement **Residential Programs** EE Programs Energy Efficiency Education Program for Schools
 Energy Efficient Appliances and Devices 81,304 1,780,068 E2 * F2 E3 * F3 1 407 7,951,567 3 022 045 2.315.055 11.5% 2,396,358 73.0903918% 1 751 508 5,988 10,615,734 26,094,584 73.0903918% 9,060,140 9,790 56,621,851 11.5% 12,395,802 3 HVAC Energy Efficiency 1.347 1.284 5 570 374 4.513.202 5 936 054 11.5% (163 628) 5 772 426 73 0903918% E4 * F4 4 219 089 Income Qualified Energy Efficiency and Weatherization Assistance 8,977,504 5,244,432 8,077,022 8,077,022 73.0903918% E5 * F5 5,903,527 1.076.119 5 Multi-Family Energy Efficiency 2.983 4.947 28.264.645 14.210.714 4.853.158 11.5% 5.929.277 73.0903918% E6 * F6 4.333.732 6 Energy Assessments
7 Total for Residential Conservation Programs 14,921,390 6,105,383 165,311 73.0903918% E7 * F7 4,583,275 18.528 16.688 122.307.332 60.627.849 37.902.406 2.939.174 40.841.580 29.851.271 8 My Home Energy Report (1) 94,985 39,714 342,160,803 12,932,554 1,137,700 14,070,254 10,284,004 9 Total Residential Conservation and Rehavioral Programs 113,514 56,402 464,468,135 83,453,445 50,834,960 4,076,874 54,911,833 40,135,274 NC Residential Peak Demand Allocation Factor 74.2414264% (E11+E29) *F11 *G11 658,987 82,948,182 20,427,903 11.5% 7,189,832 27,617,735 45.9556149% 17,221,124 11 Total Residential 772,501 56,402 464,468,135 166,401,626 71,262,862 11,266,706 82,529,568 System kW System kW System NPV of Avoided System Revenue Reduction - Summer Reduction - Winter System Energy NC Retail kWh Sales NC Non-Residential Revenue Total Cost Shared Savings % Incentive Costs Requirement Peak Peak Reduction (kWh) Allocation Factor Requirement Non-Residential Programs **EE Programs** 12 Non Residential Smart Saver Custom Technical Assessments 626 626 5 482 371 2 779 419 1 106 646 11.5% 192 369 1 299 015 73.0903918% F13 * F13 949 455 13 Non Residential Smart Saver Custom
14 Non Residential Smart Saver Energy Efficient Food Service Products 73.0903918% 73.0903918% E14 * F14 E16 * F16 7,579 53,115,768 29,177,559 10,192,972 2,183,228 12,376,199 9,045,813 212 196 439 4,280,461 1,428,585 1,057,658 11.5% 42,657 1,100,315 804,224 15 Non Residential Smart Saver Energy Efficient HVAC Products 1.118 3,698,306 156,866,525 2.369,564 1,732,792 24,280,837 11.5% 11.5% 73.229 1.806.021 73 0903918% F17 * F17 1.320.028 16 Non Residential Smart Saver Energy Efficient Lighting Products 26,034 94,718,674 8,100,351 32,381,188 73.0903918% E18 * F18 23,667,537 27,805 11.5% 11.5% 17 Non Residential Smart Saver Energy Efficient Pumps and Drives Products 429 424 2 717 418 1,234,566 424,983 93,102 518,085 73 0903918% F19 * F19 378 671 18 Non Residential Energy Efficient ITEE 272,355 28,640 47,381 (2,155) 45,226 33,056 147 924 19 Non Residential Energy Efficient Process Equipment Products 186 206 877 998 382 954 117 383 11.5% 30 541 73 0903918% F21 * F21 108 118 2,365,586 11,026,688 20 Non Residential Smart Saver Performance Incentive 1,701 14,901,572 7,088,559 543,142 2,908,728 73.0903918% 2,126,000 73.0903918% 21 Small Business Energy Saver 9,404 5,944 50,790,447 23,817,495 11.5% 1,470,943 12,497,630 E23 * F23 9,134,567 22 Total for Non-Residential Conservation Programs 49,060 43,150 293,003,221 52,352,927 12,727,405 65,080,332 47,567,470 NC Non-Residential Peak Demand Allocation Factor 23 EnergyWise for Business 20.801 2.557.568 3 489 310 5 981 812 (286.638) 5.695.174 11.5% 43,471,361 13,743,409 17,162,124 24 PowerShare 344,454 664 3,418,714 25 Total for Non-Residential DSM Programs 2.557.568 365.255 46.960.671 19.725.221 3.132.077 22.857.298 74.2414264% 54.0443851% (E11+E29) *F29 *G29 20.252.260 26 Total Non Residential 43.814 72.078.147 87.937.630 67.819.730 414.316 295.560.789 209.986.688 15.859.482 100,217 170,467,198 125,176,128 1,186,817 760,028,924 376,388,314 143,341,010 27,126,188

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

Duke Energy Carolinas, LLC For the Period January 1, 2017 - December 31, 2021 Docket Number E-7, Sub 1230 North Carolina Net Lost Revenue Estimates for Vintages 2017 - 2021

Vintage 2017

	VIIItage 2017						
Line	Residential	2017 ^(a)	2018	2019	2020	2021	Total
1	Residential Energy Assessments	\$ 198,264 \$	274,951 \$	178,148 \$	66,827	\$	718,191
2	My Home Energy Report	14,455,527	-	-	-		14,455,527
3	Energy Efficient Appliances and Devices	3,386,885	5,134,538	3,329,346	1,366,974		13,217,743
4	Residential – Smart \$aver Energy Efficiency Program	197,134	264,823	171,558	62,120		695,635
5	Appliance Recycle Program						-
6	Income Qualified Energy Efficiency and Weatherization Assistance	141,450	210,612	136,514	55,631		544,208
7	Multi-Family Energy Efficiency	535,154	743,597	478,801	177,645		1,935,197
8	Energy Efficiency Education	165,283	221,302	143,362	49,313		579,260
9	Total Lost Revenues	19,079,697	6,849,823	4,437,730	1,778,511		32,145,761
10	Lost Revenue Decrement Pending Rate Case Implementation				289,930		289,930
11	Found Residential Revenues *						-
12	Net Lost Residential Revenues	\$ 19,079,697 \$	6,849,823 \$	4,437,730 \$	1,488,581	\$	31,855,831

	Non-Residential	2017 ^(a)	2018	2019	2020	2021	Total
13	Nonresidential Smart Saver Custom Energy Assessments	\$ 220,191 \$	358,289 \$	366,388 \$	143,464	\$	1,088,332
14	Non Residential Smart Saver Custom	435,407	871,334	901,545	368,351		2,576,637
15	Energy Management Information Services	-	-	-	-		-
16	Non Residential Smart Saver Energy Efficient Food Service Products	28,410	40,771	41,428	12,007		122,616
17	Non Residential Smart Saver Energy Efficient HVAC Products	61,639	110,255	110,083	43,442		325,419
18	Non Residential Smart Saver Energy Efficient Lighting Products	6,200,869	10,299,304	10,366,805	3,645,665		30,512,643
19	Non Residential Smart Saver Energy Efficient Pumps and Drives Products	58,808	127,509	132,526	61,892		380,734
20	Non Residential Smart Saver Energy Efficient IT Products	82	162	162	61		468
21	Non Residential Smart Saver Energy Efficient Process Equipment Products	8,160	12,172	12,410	3,804		36,547
22	Non Residential Smart Saver Performance Incentive	66	774	759	442		2,041
23	Small Business Energy Saver	2,203,337	3,774,927	3,785,763	1,381,942		11,145,969
24	Smart Energy in Offices	209,310	149,382	-	-		358,692
25	Business Energy Report	-	-	-	-		-
26	EnergyWise for Business	 85,268	158,514	158,671	65,096		467,549
27	Total Lost Revenues	9,511,547	15,903,393	15,876,541	5,726,167		47,017,648
28	Lost Revenue Decrement Pending Rate Case Implementation				926,185		926,185
29	Found Non-Residential Revenues *	 -	-	-	-		-
30	Net Lost Non-Residential Revenues	\$ 9,511,547 \$	15,903,393 \$	15,876,541 \$	4,799,982	\$	46,091,463

^{*} 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 2018						
Line	Residential	2017 ^(a)	2018	2019	2020	2021	Total
24	Residential Energy Assessments		6 204.0	97 \$ 359,848	\$ 210.787	٠ .	\$ 774.732
					\$ 210,787	, ·	
	My Home Energy Report		15,751,7				15,751,701
33	Energy Efficient Appliances and Devices		4,299,4	34 9,243,154	5,414,309		18,956,897
34	Residential – Smart Şaver Energy Efficiency Program		161,4	43 324,295	189,962	-	675,700
35	Appliance Recycle Program		-		-	-	-
36	Income Qualified Energy Efficiency and Weatherization Assistance		154,3	76 340,042	199,184	-	693,602
37	Multi-Family Energy Efficiency		500,5	33 1,108,252	649,218	-	2,258,002
38	Energy Efficiency Education		128,3	11 265,267	155,385	-	548,962
39	Total Lost Revenues		21,199,8	94 11,640,858	6,818,844	-	39,659,596
40	Lost Revenue Decrement Pending Rate Case Implementation				1,608,585		1,608,585
41	Found Residential Revenues *		-	-		-	<u> </u>
42	Net Lost Residential Revenues	\$ -	\$ 21,199,8	94 \$ 11,640,858	\$ 5,210,259	\$ -	\$ 38,051,011

	Non-Residential	2017 ^(a)	2018	2019	2020	2021	Total
43	Nonresidential Smart Saver Custom Energy Assessments		\$ 212 \$	866 \$	671 \$	300 \$	2,049
44	Non Residential Smart Saver Custom		462,774	773,959	599,124	134,979	1,970,835
45	Energy Management Information Services		-	-		-	-
46	Non Residential Smart Saver Energy Efficient Food Service Products		14,117	22,612	17,505	3,772	58,006
47	Non Residential Smart Saver Energy Efficient HVAC Products		50,245	116,447	90,192	30,218	287,102
48	Non Residential Smart Saver Energy Efficient Lighting Products		4,102,094	6,719,187	5,203,682	1,182,368	17,207,330
49	Non Residential Smart Saver Energy Efficient Pumps and Drives Products		66,649	87,662	67,855	8,628	230,793
50	Non Residential Smart Saver Energy Efficient IT Products		185	876	678	317	2,056
51	Non Residential Smart Saver Energy Efficient Process Equipment Products		6,501	10,498	8,128	1,776	26,903
52	Non Residential Smart Saver Performance Incentive		20,243	84,759	65,573	29,373	199,948
53	Small Business Energy Saver		1,776,069	3,462,894	2,681,778	765,602	8,686,343
54	Smart Energy in Offices		39,733	3,847		-	43,580
55	Business Energy Report		-	-		-	-
56	EnergyWise for Business		66,282	120,486	93,316	24,695	304,779
57	Total Lost Revenues	-	6,605,105	11,404,093	8,828,500	2,182,027	29,019,725
58	Lost Revenue Decrement Pending Rate Case Implementation				1,574,142		1,574,142
59	Found Non-Residential Revenues *		-	-		-	-
60	Net Lost Non-Residential Revenues	\$ -	\$ 6,605,105 \$	11,404,093 \$	7,254,358 \$	2,182,027 \$	27,445,583

^{*} 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 2019							
Line	Residential	2017 ^(a)	2018		2019	2020	2021	Total
					405 755 4	277.275 4	450.500 4	500 740
	Residential Energy Assessments			Ş	195,756 \$	277,275 \$	160,688 \$	633,719
62	My Home Energy Report				16,556,381			16,556,381
63	Energy Efficient Appliances and Devices				4,884,189	6,969,929	4,117,409	15,971,527
64	Residential – Smart \$aver Energy Efficiency Program				192,394	297,957	176,553	666,904
65	Appliance Recycle Program				-	-	-	-
66	Income Qualified Energy Efficiency and Weatherization Assistance				220,072	313,091	179,201	712,365
67	Multi-Family Energy Efficiency				645,327	911,703	503,312	2,060,342
68	Energy Efficiency Education				148,216	260,619	155,168	564,003
69	Total Lost Revenues				22,842,336	9,030,574	5,292,331	37,165,240
70	Lost Revenue Decrement Pending Rate Case Implementation					866,360		866,360
71	Found Residential Revenues *						-	-
72	Net Lost Residential Revenues	\$ -		\$	22,842,336 \$	8,164,214 \$	5,292,331 \$	36,298,880

	Non-Residential	2017 ^(a)	2018	2019	2020	2021	Total
73	Nonresidential Smart Saver Custom Energy Assessments			\$ 83,809 \$	87,137 \$	87,137 \$	258,083
74 75	Non Residential Smart Saver Custom Energy Management Information Services			872,916	1,892,292	1,892,292	4,657,500
76	Non Residential Smart Saver Energy Efficient Food Service Products			11,399	22,027	22,027	55,453
77	Non Residential Smart Saver Energy Efficient HVAC Products			156,513	369,527	369,527	895,568
78	Non Residential Smart Saver Energy Efficient Lighting Products			3,333,966	5,782,387	5,782,387	14,898,740
79	Non Residential Smart Saver Energy Efficient Pumps and Drives Products			20,742	40,055	40,055	100,851
80	Non Residential Smart Saver Energy Efficient IT Products			250	448	448	1,145
81	Non Residential Smart Saver Energy Efficient Process Equipment Products			15,405	20,738	20,738	56,882
82	Non Residential Smart Saver Performance Incentive			24,374	119,631	119,631	263,637
83	Small Business Energy Saver			1,334,037	2,334,068	2,334,068	6,002,173
84	Smart Energy in Offices				-		-
85	Business Energy Report				-		-
86	EnergyWise for Business			62,574	126,345	126,345	315,263
87	Total Lost Revenues			5,915,986	10,794,655	10,794,655	27,505,296
88	Lost Revenue Decrement Pending Rate Case Implementation				1,448,109		1,448,109
89	Found Non-Residential Revenues *				-		-
90	Net Lost Non-Residential Revenues	\$ -		\$ 5,915,986 \$	9,346,546 \$	10,794,655 \$	26,057,187

^{*} 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 2020

	VIII.Uge 2020							
Line	Residential	2017 ^(a)	2018	2019)	2020	2021	Total
91	Residential Energy Assessments					161,966	289,779 \$	451,745
92	My Home Energy Report					14,686,468	-	14,686,468
93	Energy Efficient Appliances and Devices					1,237,431	1,982,233	3,219,664
94	Residential – Smart \$aver Energy Efficiency Program					263,183	498,132	761,315
95	Appliance Recycle Program					-	-	-
96	Income Qualified Energy Efficiency and Weatherization Assistance					103,534	362,395	465,930
97	Multi-Family Energy Efficiency					496,249	939,264	1,435,513
98	Energy Efficiency Education					146,751	423,675	570,426
99	Total Lost Revenues		-		-	17,095,583	4,495,479	21,591,062
100	Lost Revenue Decrement Pending Rate Case Implementation					2,428,488		2,428,488
101	Found Residential Revenues *					-		-
102	Net Lost Residential Revenues	\$	-	\$	- \$	14,667,095 \$	4,495,479 \$	19,162,574

	Non-Residential	2017 ^(a)	2018	2019		2020	2021	Total
103	Nonresidential Smart Saver Custom Energy Assessments				¢	136,414 \$	250,432 \$	386,846
103	Non Residential Smart Saver Custom				J	1,201,984	2,299,277	3,501,261
						1,201,984	2,299,277	3,501,261
105	6, 10, 10, 10, 10, 10, 10, 10, 10, 10, 10							-
106	Non Residential Smart Saver Energy Efficient Food Service Products					93,624	138,074	231,698
107	Non Residential Smart Saver Energy Efficient HVAC Products					61,819	83,451	145,269
108	Non Residential Smart Saver Energy Efficient Lighting Products					3,029,908	4,219,711	7,249,619
109	Non Residential Smart Saver Energy Efficient Pumps and Drives Products					94,651	147,632	242,283
110	Non Residential Smart Saver Energy Efficient IT Products					6,639	10,148	16,786
111	Non Residential Smart Saver Energy Efficient Process Equipment Products					12,061	17,544	29,605
112	Non Residential Smart Saver Performance Incentive					402,902	726,898	1,129,800
113	Small Business Energy Saver					955,245	1,413,098	2,368,343
114	Smart Energy in Offices					-	-	-
115	Business Energy Report					-	-	-
116	EnergyWise for Business					46,148	70,456	116,603
117	Total Lost Revenues			-		6,041,394	9,376,721	15,418,115
118	Lost Revenue Decrement Pending Rate Case Implementation					858,201		858,201
119	Found Non-Residential Revenues *					-	-	
120	Net Lost Non-Residential Revenues	\$		\$ -	\$	5,183,193 \$	9,376,721 \$	14,559,914

^{*} 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 2021							
Line	Residential	2017 ^(a)	2018	2019	202	20	2021	Total
121	Residential Energy Assessments						390,315 \$	390,315
122	My Home Energy Report						22,036,642	22,036,642
123	Energy Efficient Appliances and Devices						1,461,671	1,461,671
124	Residential – Smart \$aver Energy Efficiency Program						141,218	141,218
125	Appliance Recycle Program						-	-
126	Income Qualified Energy Efficiency and Weatherization Assistance						211,920	211,920
127	Multi-Family Energy Efficiency						748,492	748,492
128	Energy Efficiency Education						215,041	215,041
129	Total Lost Revenues		-		-	-	25,205,298	25,205,298
130	Found Residential Revenues *					-	-	-
131	Net Lost Residential Revenues	\$		\$	- \$	- \$	25,205,298 \$	25,205,298

	Non-Residential	2017 ^(a)		2018	2019	2020		2021	Total
132	Nonresidential Smart Saver Custom Energy Assessments						\$	93,807	\$ 93,807
133	Non Residential Smart Saver Custom							986,152	986,152
134	Energy Management Information Services								-
135	Non Residential Smart Saver Energy Efficient Food Service Products							107,100	107,100
136	Non Residential Smart Saver Energy Efficient HVAC Products							87,660	87,660
137	Non Residential Smart Saver Energy Efficient Lighting Products							3,741,050	3,741,050
138	Non Residential Smart Saver Energy Efficient Pumps and Drives Products							56,674	56,674
139	Non Residential Smart Saver Energy Efficient IT Products							5,557	5,557
140	Non Residential Smart Saver Energy Efficient Process Equipment Products							14,632	14,632
141	Non Residential Smart Saver Performance Incentive							265,513	265,513
142	Small Business Energy Saver							953,671	953,671
143	Smart Energy in Offices								-
144	Business Energy Report								-
145	EnergyWise for Business							48,898	48,898
146	Total Lost Revenues		-		-			6,360,715	6,360,715
147	Found Non-Residential Revenues *							-	-
148	Net Lost Non-Residential Revenues	\$		\$		\$	- \$	6,360,715	\$ 6,360,715

^{*} 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 2021									
Line	Residential	2016	2	017 ^(a)	2018	2019	2020	2021	Total	
149	Residential Energy Assessments								\$	-
150	My Home Energy Report									-
151	Energy Efficient Appliances and Devices									-
152	Residential – Smart \$aver Energy Efficiency Program									-
153	Appliance Recycle Program									-
154	Income Qualified Energy Efficiency and Weatherization Assistance									-
155	Multi-Family Energy Efficiency									-
156	Energy Efficiency Education									-
157	Total Lost Revenues		-	-		-	-	-		-
158	Found Residential Revenues *						-	-		-
159	Net Lost Residential Revenues	\$	- \$	-	\$	- \$	-	\$ -	\$	-

	Non-Residential	2016	2017 ^(a)	2018	2019	2020	2021	Total
160	Nonresidential Smart Saver Custom Energy Assessments	\$ 199,079 \$	389,585 \$	318,658 \$	114,463			\$ 1,021,784
161	Non Residential Smart Saver Custom	914,009	1,703,790	1,398,549	481,717			4,498,065
162	Energy Management Information Services	-		-				
163	Non Residential Smart Saver Energy Efficient Food Service Products	24,889	66,328	54,035	24,113			169,365
164	Non Residential Smart Saver Energy Efficient HVAC Products	46,952	103,028	83,640	32,091			265,711
165	Non Residential Smart Saver Energy Efficient Lighting Products	2,925,514	6,589,455	5,321,493	2,084,521			16,920,983
166	Non Residential Smart Saver Energy Efficient Pumps and Drives Products	38,898	66,558	54,453	16,625			176,534
167	Non Residential Smart Saver Energy Efficient IT Products	59,904	75,403	61,613	9,592			206,512
168	Non Residential Smart Saver Energy Efficient Process Equipment Products	4,731	10,652	8,811	3,508			27,702
169	Non Residential Smart Saver Performance Incentive							-
170	Small Business Energy Saver	2,145,932	4,346,981	3,511,109	1,244,128			11,248,149
171	Smart Energy in Offices	227,062	418,553	-	-			645,616
172	Business Energy Report	-	-	-	-			-
173	EnergyWise for Business	15,922	36,788	29,639	11,725			94,074
174	Total Lost Revenues	6,602,893	13,807,121	10,841,999	4,022,482		-	35,274,494
175	Found Non-Residential Revenues *	-	-	-	-	-	-	-
176	Net Lost Non-Residential Revenues	\$ 6,602,893 \$	13,807,121 \$	10,841,999 \$	4,022,482 \$	- \$	-	\$ 35,274,494

^{*} 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, 2019 - December 31, 2019 Docket Number E-7 Sub 1230 Actual Program Costs for Vintage Years 2017, 2018 , 2019

			Carolinas System - 12 months Ended 12/31/2017	Carolinas System - 12 months Ended 12/31/2018	Carolinas System - 12 months Ended 12/31/2019
1	Residential Energy Assessments		2,909,098	2,836,229	3,153,757
2	My Home Energy Report		13,812,250	12,765,286	10,558,344
3 4	Energy Efficient Appliances and Devices Residential – Smart Şaver Energy Efficiency Program		30,340,728 7,403,327	42,687,244 6,955,146	40,433,533 7,402,907
5	Appliance Recycle Program		5,307	0,533,140	7,402,507
6	Income Qualified Energy Efficiency and Weatherization Assistance		5,505,992	6,490,735	7,344,325
7	Multi family Energy Efficiency		3,168,422	3,604,921	3,681,262
8	Energy Efficiency Education		2,077,611	1,992,260	1,644,077
9	Nonresidential Smart Saver Custom Energy Assessments		2,139,875	407,293	296,006
10	Energy Management Information Systems		-	-	-
11	Non-Residential Smart Saver Custom		7,304,838	6,068,902	8,873,872
12 13	Non-Residential Smart Saver Performance Incentive		320,559	479,610	785,165
14	Non-Residential Energy Efficient Food Service Products Non-Residential Smart Saver Energy Efficient HVAC Products		306,488 1,560,769	235,605 1,620,748	339,996 2,208,364
15	Non-Residential Smart Saver Energy Efficient Lighting Products		66,689,770	25,872,380	20,834,766
16	Nonresidential Energy Efficient Pumps and Drives Products		528,937	277,785	189,172
17	Nonresidential Energy Efficient ITEE		61,215	36,875	44,335
18	Nonresidential Energy Efficient Process Equipment Products		162,413	67,509	119,843
19	Smart Energy In Offices		891,010	219,748	-
20	Small Business Energy Saver		17,350,972	15,977,993	11,421,399
21 22	Business Energy Report		126,680	-	13.386.942
22	Power Manager EnergyWise for Business		14,021,500 2,484,618	14,423,610 3,062,816	3,687,462
23	Power Share		13,316,535	12,922,977	13,022,816
25	Tower share		13,310,333	12,322,377	13,022,010
26	Total Energy Efficiency & Demand Side Program Costs	Sum(Lines 1-23)	\$ 192,488,915	\$ 159,005,671	\$ 149,428,343
27 28	NC Allocation Factor for EE programs NC Allocation Factor for DSM programs-Residential	Miller Exhibit 5 Pg. 2, Line 4 Miller Exhibit 5 Pg. 2, Line 9	72.8087506% 33.8075104%	72.7130507% 32.1574721%	34.1181040%
29	NC Allocation Factor for DSM programs-Non-Residential	Miller Exhibit 5 Pg. 2, Line 10	40.0747013%	41.4712829%	40.1233224%
			NC Allocated - 12 Months Ended 12/31/2017	NC Allocated - 12 Months Ended 12/31/2018	NC Allocated - 12 Months Ended 12/31/2019
30	Residential Energy Assessments	Line 1 * Line 25	\$ 2,118,078	\$ 2,062,308	\$ 2,305,093
31	My Home Energy Report	Line 2 * Line 25		\$ 9,282,029	7,717,135
32 33	Energy Efficient Appliances and Devices Residential – Smart Şaver Energy Efficiency Program	Line 3 * Line 25 Line 4 * Line 25	22,090,705 5,390,270	\$ 31,039,197 \$ 5,057,299	29,553,027 5,410,814
34	Appliance Recycle Program	Line 5 * Line 25	3,864		5,410,614
35	Income Qualified Energy Efficiency and Weatherization Assistance	Line 6 * Line 25	4,008,844		5,367,996
36	Multi family Energy Efficiency	Line 7 * Line 25	2,306,888		2,690,649
37	Energy Efficiency Education	Line 8 * Line 25	1,512,683		1,201,662
38	Nonresidential Smart Saver Custom Energy Assessments	Line 9 * Line 25	1,558,016	\$ 296,155	216,352
39	Energy Management Information Systems	Line 10 * Line 25	-	\$ -	-
40	Non-Residential Smart Saver Custom	Line 11 * Line 25	5,318,561		6,485,948
41	Non-Residential Smart Saver Performance Incentive		233,395		573,880
42 43	Non-Residential Energy Efficient Food Service Products Non-Residential Smart Saver Energy Efficient HVAC Products	Line 12 * Line 25 Line 13 * Line 25	223,150 1,136,376		248,504 1,614,102
44	Non-Residential Smart Saver Energy Efficient Lighting Products	Line 13 · Line 25	48,555,988		1,614,102
45	Nonresidential Energy Efficient Pumps and Drives Products	Line 15 * Line 25	385,112		138.267
46	Nonresidential Energy Efficient ITEE	Line 16 * Line 25	44,570		32,404
47	Nonresidential Energy Efficient Process Equipment Products	Line 17 * Line 25	118,251		87,594
48	Smart Energy In Offices	Line 18 * Line 25	648,734	\$ 159,785	-
49	Small Business Energy Saver	Line 19 * Line 25		\$ 11,618,086	8,347,945
50	Business Energy Report	Line 20 * Line 25	92,234		-
51	Power Manager	(Line 21 + Line 22 + Line 23)* Line 26	10,082,296	9,778,895	10,268,601
52	EnergyWise for Business	(Line 21 + Line 22 + Line 23)* Line 27	1,879,262	2,416,251	2,664,815
53 54	Power Share	(Line 21 + Line 22 + Line 23)* Line 27 0	10,072,077	10,194,918	9,411,189
55	Total Energy Efficiency & Demand Side Program Costs	Sum (Lines 25-44)	\$ 140,468,909	\$ 115,896,335	\$ 109,564,190

CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Carolinas, LLC's DSM/EE Cost Recovery Rider – Supplemental Testimony and Exhibits, in Docket No. E-7, Sub 1230, has been served by electronic mail, hand delivery, or by depositing a copy in the United States Mail, 1st Class Postage Prepaid, properly addressed to parties of record.

This the 11th day of May, 2020.

Kendrick C. Fentress

Associate General Counsel

Duke Energy Corporation

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