

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Proposed Nuclear Capacity Factor
Billing Period September 2025 through August 2026
Docket E-7, Sub 1313

Sykes Workpaper 1

	Catawba 1	Catawba 2	McGuire 1	McGuire 2	Oconee 1	Oconee 2	Oconee 3	Total
MWhs	9,499,693	9,306,560	10,120,920	9,384,328	7,482,000	6,881,306	6,987,570	59,662,376
Cost (Gross of Joint Owners)	\$ 57,637,532	\$ 58,397,922	\$ 50,242,189	\$ 55,419,575	\$ 31,942,620	\$ 38,609,073	\$ 42,776,628	\$ 335,025,539
\$/MWh	6.0673	6.2749	4.9642	5.9055	4.2693	5.6107	6.1218	
Avg \$/MWh		5.6154						
Cents per kWh		0.5615						

Sep 2025 - Aug
2026

MDC

CATA_UN01	Catawba	MW	1,160.0
CATA_UN02	Catawba	MW	1,150.1
MCGU_UN01	McGuire	MW	1,158.0
MCGU_UN02	McGuire	MW	1,157.6
OCON_UN01	Oconee	MW	847.0
OCON_UN02	Oconee	MW	848.0
OCON_UN03	Oconee	MW	859.0
			<u>7,179.7</u>

Hours In Year

8,760

Generation GWhs

CATA_UN01	Catawba	GWh	9,500
CATA_UN02	Catawba	GWh	9,307
MCGU_UN01	McGuire	GWh	10,121
MCGU_UN02	McGuire	GWh	9,384
OCON_UN01	Oconee	GWh	7,482
OCON_UN02	Oconee	GWh	6,881
OCON_UN03	Oconee	GWh	6,988
			<u>59,662</u>

Proposed Nuclear Capacity Factor 94.86%

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
NERC 5 Year Average Nuclear Capacity Factor
Billing Period September 2025 through August 2026
Docket E-7, Sub 1313

Sykes Workpaper 2

	Catawba 1	Catawba 2	McGuire 1	McGuire 2	Oconee 1	Oconee 2	Oconee 3	Total
MWhs with NERC applied	9,263,315	9,184,257	9,247,343	9,244,149	6,909,985	6,918,143	7,007,883	57,775,076
Hours	8,760	8,760	8,760	8,760	8,760	8,760	8,760	8,760
MDC	1,160.0	1,150.1	1,158.0	1,157.6	847.0	848.0	859.0	7,179.7
Capacity factor	91.16%	91.16%	91.16%	91.16%	93.13%	93.13%	93.13%	91.86%
Cost	\$ 52,016,818	\$ 51,572,881	\$ 51,927,134	\$ 51,909,197	\$ 38,802,034	\$ 38,847,845	\$ 39,351,767	\$ 324,427,675

Avg \$/MWh 5.6154
Cents per kWh 0.5615

2019-2023	Capacity Rating	NCF Rating	Weighted Average
Oconee 1	847.0	93.13	10.99%
Oconee 2	848.0	93.13	11.00%
Oconee 3	859.0	93.13	11.14%
McGuire 1	1,158.0	91.16	14.70%
McGuire 2	1,157.6	91.16	14.70%
Catawba 1	1,160.0	91.16	14.73%
Catawba 2	1,150.1	91.16	14.60%
	7,179.7		91.86%

Wtd Avg on Capacity Rating

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
North Carolina Generation and Purchased Power in MWhs
Billing Period September 2025 through August 2026
Docket E-7, Sub 1313

Sykes Workpaper 3

Resource Type	Sep 2025 - Aug 2026	
Nuclear Total (Gross)	59,662,376	
Coal Total	14,307,355	
Gas CT and CC total (Gross)	25,567,466	
Run of River	4,523,947	
Net pumped Storage	(3,570,339)	
Total Hydro	953,607	
Catawba Joint Owners	(14,176,018)	
Lee CC Joint Owners	(633,428)	
DEC owned solar	429,671	
Total Generation		86,111,029
Purchases for CEPS Compliance	986,639	
Qualifying Facility Purchases - Non-CEPS compliance	2,225,993	
Other Purchases	327,139	
Allocated Economic Purchases	1,646,157	
Joint Dispatch Purchases	9,657,959	
	14,843,887	
Total Generation and Purchased Power		100,954,916
Fuel Recovered Through Intersystem Sales	(768,318)	

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Projected Fuel and Fuel Related Costs
Billing Period September 2025 through August 2026
Docket E-7, Sub 1313

Sykes Workpaper 4

Resource Type	Sep 2025 - Aug 2026	
Nuclear Total (Gross)	\$ 335,025,539	
COAL Total	587,288,769	
Gas CT and CC total (Gross)	1,029,500,771	
Catawba Joint Owner costs	(79,613,301)	
CC Joint Owner costs	(21,998,745)	
Reagents and gain/loss on sale of By-Products	22,726,090	Workpaper 8
Purchases for CEPS Compliance - Energy	49,712,874	
Purchases for CEPS Compliance - Capacity	10,804,860	
Purchases of Qualifying Facilities - Energy	86,815,509	
Purchases of Qualifying Facilities - Capacity	17,936,573	
Other Purchases	7,261,090	
JDA Savings Shared	47,340,021	Workpaper 5
Allocated Economic Purchase cost	54,040,579	Workpaper 5
Joint Dispatch purchases	331,279,606	Workpaper 6
Total Purchases	<u>605,191,113</u>	
Fuel Expense recovered through intersystem sales	(30,093,336)	Workpaper 5
Total System Fuel and Fuel Related Costs	\$ 2,448,026,899	

rounding differences may occur

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Sykes Workpaper 5

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Allocated Economic Purchase Cost		Economic Sales Cost		Fuel Transfer Payment		JDA Savings Payment	
DEP	DEC	DEP	DEC	DEP	DEC	DEP	DEC
\$ 1,744,084	\$ 2,676,214	\$ (504,583)	\$ (505,872)	\$ (21,598,535)	\$ 21,598,535	\$ (2,715,150)	\$ 2,715,150
\$ 2,365,080	\$ 3,773,084	\$ (544,392)	\$ (616,807)	\$ (4,641,845)	\$ 4,641,845	\$ (350,536)	\$ 350,536
\$ 2,707,899	\$ 4,099,991	\$ (487,256)	\$ (548,388)	\$ (24,331,873)	\$ 24,331,873	\$ (2,689,346)	\$ 2,689,346
\$ 2,238,202	\$ 3,393,373	\$ (1,217,789)	\$ (1,371,848)	\$ (25,463,030)	\$ 25,463,030	\$ (4,142,844)	\$ 4,142,844
\$ 4,190,227	\$ 6,254,869	\$ (1,973,574)	\$ (2,281,693)	\$ (27,771,901)	\$ 27,771,901	\$ (3,891,624)	\$ 3,891,624
\$ 3,170,985	\$ 4,878,989	\$ (1,485,811)	\$ (1,835,219)	\$ (25,607,178)	\$ 25,607,178	\$ (3,318,699)	\$ 3,318,699
\$ 2,912,137	\$ 4,390,337	\$ (646,853)	\$ (803,701)	\$ (37,205,349)	\$ 37,205,349	\$ (9,619,281)	\$ 9,619,281
\$ 3,597,831	\$ 5,707,211	\$ (369,102)	\$ (557,338)	\$ (42,235,772)	\$ 42,235,772	\$ (9,158,510)	\$ 9,158,510
\$ 3,279,760	\$ 4,985,805	\$ (561,640)	\$ (763,314)	\$ (24,214,328)	\$ 24,214,328	\$ (6,468,531)	\$ 6,468,531
\$ 3,875,766	\$ 5,921,959	\$ (637,969)	\$ (707,783)	\$ (24,714,707)	\$ 24,714,707	\$ (2,204,372)	\$ 2,204,372
\$ 2,877,541	\$ 4,189,453	\$ (1,329,558)	\$ (1,420,297)	\$ (28,876,243)	\$ 28,876,243	\$ (1,049,725)	\$ 1,049,725
\$ 2,529,542	\$ 3,769,295	\$ (1,191,332)	\$ (1,260,815)	\$ (27,198,582)	\$ 27,198,582	\$ (1,731,405)	\$ 1,731,405

Sept 25 - Aug 26	\$	54,040,579	\$	(12,673,075)	\$	313,859,345	\$	47,340,021
					\$	331,279,606		Workpaper 6 - Transfer - Purchases
					\$	(17,420,261)		Workpaper 6 - Transfer - Sales
rounding differences may occur					\$	313,859,345	Sept 25 - Aug 26	Net Fuel Transfer Payment
					\$	(17,420,261)		Workpaper 6 - Transfer - Sales
					\$	(12,673,075)	Sept 25 - Aug 26	Economic Sales Cost
					\$	(30,093,336)		Total Fuel expense recovered through intersystem sales

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Projected Merger Payments
Billing Period September 2025 through August 2026
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Sykes Workpaper 6

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	Transfer Projection		Purchase Allocation Delta		Purchase	Sale	Fossil Gen Cost		Sale	Purchase
	Adjusted Transfer		Pre-Net Payments							
	PECtoDEC	DECtoPEC	PEC	DEC	PECtoDEC	DECtoPEC	PEC	DEC	PECtoDEC	DECtoPEC
9/1/2025	703,005	13,428	(9,695)	9,695	703,005	23,124	31.76	31.67	732,269	22,330,804
10/1/2025	307,688	125,689	(21,748)	21,748	307,688	147,437	30.24	31.62	4,661,710	9,303,554
11/1/2025	800,990	18,532	(10,628)	10,628	800,990	29,160	31.59	33.38	973,350	25,305,223
12/1/2025	758,415	27,566	(7,215)	7,215	758,415	34,782	35.27	37.00	1,286,748	26,749,779
1/1/2026	726,673	39,816	(17,266)	17,266	726,673	57,083	41.46	41.24	2,354,226	30,126,127
2/1/2026	704,762	25,346	(17,448)	17,448	704,762	42,794	38.74	39.66	1,697,088	27,304,267
3/1/2026	1,160,102	2,033	(10,983)	10,983	1,160,102	13,016	32.44	33.34	433,977	37,639,326
4/1/2026	1,354,611	617	(21,071)	21,071	1,354,611	21,688	31.70	32.28	700,043	42,935,816
5/1/2026	781,890	12,405	(20,819)	20,819	781,890	33,223	32.43	34.27	1,138,684	25,353,012
6/1/2026	773,078	14,844	(24,257)	24,257	773,078	39,101	33.72	34.67	1,355,807	26,070,514
7/1/2026	815,614	11,600	(14,582)	14,582	815,614	26,182	36.58	36.49	955,436	29,831,680
8/1/2026	771,133	13,509	(17,358)	17,358	771,133	30,867	36.74	36.64	1,130,923	28,329,505
Sept 25 - Aug 26	9,657,959	305,385	(193,072)	193,072	9,657,959	498,457			\$ 17,420,261	\$ 331,279,606
									Net Pre-Net Payments	\$ 313,859,345

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Proposed Nuclear Capacity Factor of 94.86%
Billing Period September 2025 through August 2026
Docket E-7, Sub 1313

Sykes Workpaper 7

Fall 2024 Forecast
Billed Sales Forecast
Sales Forecast - MWhs (000)

		Projected sales At Meter for the Billing Period	Remove impact of SC DERP Net Metered Generation	Adjusted Sales	2023 Cost of Service Line Loss Factors	Adjusted Projected Sales at Generation
North Carolina						
	Residential	23,441,177		23,441,177	6.8220%	25,157,416
	General Service	25,178,992		25,178,992	6.2670%	26,862,463
	Industrial	12,742,130		12,742,130	5.9910%	13,554,160
	Lighting	250,926		250,926	6.2670%	267,703
	NC RETAIL	61,613,224	-	61,613,225		65,841,741
South Carolina						
	Residential	7,355,105		7,355,105		
	General Service	6,169,355		6,169,355		
	Industrial	8,880,354		8,880,354		
	Lighting	37,285		37,285		
	SC RETAIL	22,442,099	148,366	22,590,465	6.5360%	24,170,231
Total Retail Sales						
	Residential	30,796,282	-	30,796,282		
	General Service	31,348,347	-	31,348,347		
	Industrial	21,622,485	-	21,622,484		
	Lighting	288,210	-	288,211		
	Retail Sales	84,055,324	148,366	84,203,690		90,011,972
	Wholesale	9,734,731	-	9,734,731	2.2260%	9,956,360
	Projected System MWH Sales for Fuel Factor	93,790,054	148,366	93,938,420		99,968,332
	NC as a percentage of total	65.69%		65.59%		65.86%
	SC as a percentage of total	23.93%		24.05%		24.18%
	Wholesale as a percentage of total	10.38%		10.36%		9.96%
		100.00%		100.00%		100.00%
<u>SC Net Metering allocation adjustment</u>						
	Total projected SC NEM MWhs		148,366			
	Marginal fuel rate per MWh for SC NEM		\$ 38.63			
	Fuel benefit to be directly assigned to SC Retail		\$ 5,731,379			

System Fuel Expense	\$ 2,448,026,899	Sykes Exhibit 2 Schedule 1 Page 1
Fuel benefit to be directly assigned to SC Retail	\$ 5,731,379	
Total Fuel Costs for Allocation	\$ 2,453,758,277	Sykes Exhibit 2 Schedule 1 Page 2

rounding differences may occur

Sykes Workpaper 7a

Feb 25 2025

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Projected and Adjusted Projected Sales and Costs
NERC 5 Year Average Nuclear Capacity Factor of 91.86% and Projected Period Sales
Billing Period September 2025 through August 2026
Docket E-7, Sub 1313

Sykes Workpaper 7b

Fall 2024 Forecast
Billed Sales Forecast
Sales Forecast - MWhs (000)

		Projected sales for the Billing Period	Remove impact of SC DERP Net Metered generation	Adjusted Sales	2023 Cost of Service Line Loss Factors	Adjusted Projected Sales at Generation
North Carolina	Residential	23,441,177		23,441,177	6.8220%	25,157,416
	General Service	25,178,992		25,178,992	6.2670%	26,862,463
	Industrial	12,742,130		12,742,130	5.9910%	13,554,160
	Lighting	250,926		250,926	6.2670%	267,703
	NC RETAIL	61,613,224	-	61,613,224		65,841,741
South Carolina	Residential	7,355,105		7,355,105		
	General Service	6,169,355		6,169,355		
	Industrial	8,880,354		8,880,354		
	Lighting	37,285		37,285		
	SC RETAIL	22,442,099	148,366	22,590,465	6.5360%	24,170,231
Total Retail Sales	Residential	30,796,282	-	30,796,282		
	General Service	31,348,347	-	31,348,347		
	Industrial	21,622,485	-	21,622,485		
	Lighting	288,210	-	288,210		
	Retail Sales	84,055,323	148,366	84,203,689		90,011,972
	Wholesale	9,734,731	-	9,734,731	2.2260%	9,956,359
	Projected System MWh Sales for Fuel Factor	93,790,054	148,366	93,938,420		99,968,332
North Carolina as a percentage of total		65.69%		65.59%		65.86%
South Carolina as a percentage of total		23.93%		24.05%		24.18%
Wholesale as a percentage of total		10.38%		10.36%		9.96%
		100.00%		100.00%		100.00%
SC Net Metering allocation adjustment						
Total projected SC NEM MWhs			148,366			
Marginal fuel rate per MWh for SC NEM			\$ 38.63			
Fuel benefit to be directly assigned to SC Retail			\$ 5,731,379			
System Fuel Expense			\$ 2,499,010,229	Sykes Exhibit 2 Schedule 3 Page 1		
Fuel benefit to be directly assigned to SC Retail			\$ 5,731,379			
Total Fuel Costs for Allocation			\$ 2,504,741,608	Sykes Exhibit 2 Schedule 3 Page 2		
rounding differences may occur						

	MWh at Meter	MWh at Meter Allocation	MWh at Generation (high side of GSU)	MWh at Generation Allocation	Losses		Cost of Service Data Summarized			
North Carolina							MWh @ Meter	MWh @ Generator	Losses (MWh)	Loss Percent
Residential	21,544,402	25.00%	23,014,070	25.18%	1,469,667	Residential	21,544,402	23,014,070	1,469,667	6.8220%
General Service/Lighting	24,310,338	28.21%	25,833,802	28.27%	1,523,464	GS/Lighting	24,310,338	25,833,802	1,523,464	6.2670%
Industrial	11,674,957	13.55%	12,374,449	13.54%	699,492	Industrial	11,674,957	12,374,449	699,492	5.9910%
Total NC Retail	57,529,697	66.77%	61,222,321	66.99%	3,692,623	Total NC Retail	57,529,697	61,222,321	3,692,623	6.4190%
NCWHS incl. NCEMPA	3,129,541	3.63%	3,200,922	3.50%	71,381					
Total NC	60,659,239	70.40%	64,423,243	70.50%	3,764,004	Total NC Retail	57,529,697	61,222,321	3,692,623	6.4190%
South Carolina						SC Retail	20,604,920	21,951,564	1,346,645	6.5360%
Residential	6,660,612	7.73%	7,114,971	7.79%	454,359	12ME NEM Generation	148,366	158,063	9,697	6.5360%
General Service/Lighting	5,906,779	6.86%	6,291,348	6.88%	384,569	Total SC Retail	20,753,286	22,109,628	1,356,342	6.5360%
Industrial	8,037,528	9.33%	8,545,246	9.35%	507,718	Wholesale	7,878,394	8,053,776	175,382	2.2260%
Total SC Retail	20,604,920	23.91%	21,951,564	24.02%	1,346,645	Total System	86,161,377	91,385,724	5,224,347	6.0630%
SC Greenwood	44,181	0.05%	47,189	0.05%	3,007					
SCWHS	4,853,037	5.63%	4,963,728	5.43%	110,691	Line Loss Calculations for				
Total SC	25,502,138	29.60%	26,962,481	29.50%	1,460,343	Projected Fuel Costs	MWh @ Meter	MWh @ Generator		
Total System	86,161,377	100.00%	91,385,724	100.00%	5,224,347	Residential	23,441,177	25,157,416		
						Gen Svc/Lighting	25,429,918	27,130,165		
						Industrial	12,742,130	13,554,160		
						Total NC Retail	61,613,225	65,841,741		
						Total SC Retail	22,590,465	24,170,231		
						Wholesale	9,734,731	9,956,360		
						Total System	93,938,421	99,968,332		
						Allocation percent - NC retail	65.59%	65.86%		
						Line Loss Calculations for				
						Normalized Test Period Sales	MWh @ Meter	MWh @ Generator		
						Residential	23,220,636	24,920,728		
						GS/Lighting	24,479,112	26,115,789		
						Industrial	11,744,721	12,493,188		
						Total NC Retail	59,444,469	63,529,705		
						Total SC Retail	21,729,087	23,248,617		
						Wholesale	9,391,974	9,605,799		
						Total System	90,565,530	96,384,120		
						Allocation percent - NC retail	65.64%	65.91%		

Reagent and ByProduct projections

Date	Ammonia	Urea	Limestone	Magnesium		Calcium Carbonate	Lime	Gypsum (Gain)/			Sale of By-Products	
				Hydroxide				Reagent Cost	Loss	Ash (Gain)/Loss	Steam (Gain)/Loss	(Gain)/Loss
9/1/2025	\$ 377,393	\$ 34,811	\$ 1,063,297	\$ 84,256		\$ 51,560	\$ 3,420	\$ 1,614,737	\$ 299,879	\$ (104,734)	\$ (226,995)	\$ (31,850)
10/1/2025	\$ 305,410	\$ 28,171	\$ 860,486	\$ 55,821		\$ 34,159	\$ 3,420	\$ 1,287,467	\$ 222,947	\$ (101,372)	\$ (226,995)	\$ (105,419)
11/1/2025	\$ 432,468	\$ 39,891	\$ 1,218,471	\$ 88,221		\$ 53,986	\$ 3,420	\$ 1,836,458	\$ 332,872	\$ (125,992)	\$ (226,995)	\$ (20,115)
12/1/2025	\$ 581,486	\$ 53,636	\$ 1,638,325	\$ 147,927		\$ 90,523	\$ 3,420	\$ 2,515,318	\$ 477,370	\$ (139,414)	\$ (226,995)	\$ 110,961
1/1/2026	\$ 727,638	\$ 67,117	\$ 2,050,105	\$ 190,983		\$ 116,870	\$ 3,420	\$ 3,156,134	\$ 610,995	\$ (166,544)	\$ (226,995)	\$ 217,456
2/1/2026	\$ 630,852	\$ 58,190	\$ 1,777,412	\$ 165,424		\$ 101,230	\$ 3,420	\$ 2,736,527	\$ 536,491	\$ (149,092)	\$ (226,995)	\$ 160,404
3/1/2026	\$ 187,259	\$ 17,273	\$ 527,597	\$ 57,635		\$ 35,269	\$ 3,420	\$ 828,453	\$ 149,034	\$ (47,684)	\$ (226,995)	\$ (125,645)
4/1/2026	\$ 144,598	\$ 13,338	\$ 407,403	\$ 67,115		\$ 41,070	\$ 3,420	\$ 676,944	\$ 95,259	\$ (28,610)	\$ (226,995)	\$ (160,346)
5/1/2026	\$ 338,181	\$ 31,194	\$ 952,819	\$ 72,319		\$ 44,255	\$ 3,420	\$ 1,442,188	\$ 200,329	\$ (132,329)	\$ (226,995)	\$ (158,995)
6/1/2026	\$ 426,794	\$ 39,367	\$ 1,202,484	\$ 85,900		\$ 52,566	\$ 3,420	\$ 1,810,532	\$ 324,240	\$ (138,466)	\$ (226,995)	\$ (41,221)
7/1/2026	\$ 568,286	\$ 52,419	\$ 1,601,133	\$ 126,320		\$ 77,300	\$ 3,420	\$ 2,428,877	\$ 460,419	\$ (164,234)	\$ (240,044)	\$ 56,141
8/1/2026	\$ 567,462	\$ 52,343	\$ 1,598,812	\$ 120,196		\$ 73,553	\$ 3,420	\$ 2,415,786	\$ 479,057	\$ (163,717)	\$ (240,044)	\$ 75,297
	\$ 5,287,828	\$ 487,748	\$ 14,898,345	\$ 1,262,116		\$ 720,780	\$ 41,044	\$ 22,749,421	\$ 4,188,891	\$ (1,462,189)	\$ (2,750,033)	\$ (23,331)
Total Reagent cost and Sale of By-products											\$	22,726,090

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
2.5% Calculation Test
Twelve Months Ended December 31, 2024
Billing Period September 2025 through August 2026
Docket E-7, Sub 1313

Sykes Workpaper 9

Line No.	Description	Forecast \$	(Over)/Under Collection \$	Total \$
1	Amount in current docket	149,137,214	16,231,966	165,369,180
2	Amount in Sub 1304, prior year docket	105,739,021	7,838,585	113,577,607
3	Increase/(Decrease)	43,398,193	8,393,380	51,791,573
4	2.5% of 2024 NC retail revenue of \$6,467,464,895			161,686,622
	Excess of purchased power growth over 2.5% of revenue			0
E-7, Sub 1313				
WP 4	Purchases for CEPS Compliance - Energy	49,712,874	65.59%	32,606,674
WP 4	Purchases for CEPS Compliance - Capacity	10,804,860	67.43%	7,285,768
WP 4	Purchases	7,261,090	65.59%	4,762,549
WP 4	QF Energy	86,815,509	65.59%	56,942,292
WP 4	QF Capacity	17,936,573	67.43%	12,094,715
WP 4	Allocated Economic Purchase cost	54,040,579	65.59%	35,445,216
		226,571,485		149,137,214
E-7, Sub 1304				
	Purchases for CEPS Compliance	51,648,652	65.90%	34,036,462
	Purchases for CEPS Compliance Capacity	11,295,326	66.68%	7,531,868
	Purchases	5,544,352	65.90%	3,653,728
	QF Energy	51,796,696	65.90%	34,134,023
	QF Capacity	10,762,375	66.68%	7,176,490
	Allocated Economic Purchase cost	29,144,842	65.90%	19,206,451
		160,192,243		105,739,021

rounding differences may occur

2024	Jan-24	Feb-24	Mar-24	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	12 ME
System kWh Sales - Sch 4, Adjusted	8,101,059,922	7,784,646,578	6,732,459,248	6,445,357,121	6,837,316,529	7,685,694,952	8,969,904,984	8,788,904,696	8,107,832,431	7,192,869,725	6,745,885,578	7,842,347,049	91,234,278,812
NC Retail kWh Sales - Sch 4	5,258,555,167	5,197,666,602	4,459,854,857	4,243,698,297	4,464,000,025	4,979,293,389	5,876,634,707	5,770,611,787	5,313,365,880	4,796,562,288	4,467,983,050	5,072,469,658	59,900,695,707
NC Retail % of Sales, Actuals (Calc)	64.91%	66.77%	66.24%	65.84%	65.29%	64.79%	65.52%	65.66%	65.53%	66.68%	66.23%	64.68%	65.66%
NC Retail % of Sales, Adjusted (Calc)	64.91%	66.77%	66.24%	65.84%	65.29%	64.79%	65.52%	65.66%	65.53%	66.69%	66.23%	64.68%	64.68%
NC retail production demand%	67.43%	67.43%	67.43%	67.43%	67.43%	67.43%	67.43%	67.43%	67.43%	67.43%	67.43%	67.43%	67.43%
Fuel and Fuel related component of purchased power													
System Actual \$ - Sch 3 Fuel\$:	\$ 34,079,686	\$ 7,463,891	\$ 5,087,665	\$ 11,858,924	\$ 16,356,582	\$ 25,577,266	\$ 18,522,613	\$ 16,264,631	\$ 11,849,067	\$ 16,542,172	\$ 13,409,460	\$ 16,016,632	\$ 193,028,589
System Actual \$ - Sch 3 Fuel-related\$; Economic Purchases	3,671,023	1,179,748	871,864	1,463,957	1,306,090	3,500,394	2,614,114	2,038,141	1,150,753	1,223,238	1,350,501	2,275,485	\$ 22,645,308
System Actual \$ - Sch 3 Fuel-related\$; Purchased Power for CEPS Compliance	3,518,827	3,801,021	3,811,984	4,120,578	4,504,854	4,532,555	4,676,843	4,466,513	4,617,065	3,247,389	3,747,994	2,478,792	\$ 47,524,416
System Actual\$ - Sch 3 Fuel-related\$; SC DERP	138,178	156,178	181,511	230,382	635,974	253,475	281,729	244,182	261,591	170,346	173,307	128,331	\$ 2,855,182
System Actual\$ - Sch 3 Fuel-related\$; SC ACT 62 (Solar Choice)	4,979	7,817	15,463	38,362	32,869	24,405	15,256	10,033	18,459	17,760	21,930	9,041	\$ 216,372
System Actual \$ - Sch 3 Fuel-related\$; HBS89 purpa Purchases	2,038,951	2,675,911	2,424,020	3,268,477	2,872,082	4,060,152	3,932,277	3,686,649	3,898,682	2,837,597	3,342,096	2,292,532	\$ 37,329,426
Total System Economic & QF\$	43,451,644	15,284,567	12,392,507	20,980,680	25,708,451	37,948,246	30,042,832	26,710,148	21,795,617	24,038,502	22,045,286	23,200,813	303,599,293
Less:													
Native Load Transfers, Native Load Transfer Benefit & DE - Progress fees	\$ 28,398,621	\$ 6,778,027	\$ 4,987,557	\$ 12,462,612	\$ 16,133,053	\$ 23,337,893	\$ 18,491,728	\$ 16,793,779	\$ 11,761,448	\$ 16,812,043	\$ 13,395,155	\$ 15,546,701	\$ 184,898,617
Total System Economic \$ without Native Load Transfers	\$ 15,053,023	\$ 12,151,382	\$ 11,035,424	\$ 12,408,263	\$ 13,444,278	\$ 18,889,433	\$ 15,946,218	\$ 9,916,369	\$ 10,034,169	\$ 10,303,502	\$ 12,224,819	\$ 10,004,573	151,411,453
NC Actual \$ (Calc)	\$ 9,771,209	\$ 8,113,256	\$ 7,310,314	\$ 8,169,745	\$ 8,777,604	\$ 12,237,804	\$ 10,447,167	\$ 6,510,881	\$ 6,575,792	\$ 6,870,891	\$ 8,096,864	\$ 6,471,058	99,352,586
Billed rate (¢/kWh):	0.1409	0.1409	0.1409	0.1409	0.1409	0.1409	0.1409	0.1409	0.1316	0.1205	0.1205	0.1205	
Billed \$:	\$ 7,408,602	\$ 7,322,818	\$ 6,283,340	\$ 5,978,804	\$ 6,289,180	\$ 7,015,160	\$ 8,279,394	\$ 8,130,022	\$ 6,991,277	\$ 5,779,339	\$ 5,383,437	\$ 6,111,778	\$ 80,973,150
(Over)/ Under \$:	\$ 2,362,607	\$ 790,438	\$ 1,026,974	\$ 2,190,941	\$ 2,488,424	\$ 5,222,645	\$ 2,167,774	\$ (1,619,140)	\$ (415,485)	\$ 1,091,551	\$ 2,713,428	\$ 359,280	\$ 18,379,436
Capacity component of purchased power													
System Actual \$ - Capacity component of Purchased Power for CEPS Compliance	\$ 571,019	\$ 630,459	\$ 632,006	\$ 580,722	\$ 641,658	\$ 737,354	\$ 2,209,041	\$ 2,202,119	\$ 2,221,442	\$ 1,398,074	\$ 590,875	\$ 362,144	\$ 12,776,914
System Actual \$ - Capacity component of SC DERP	13,208	15,008	17,347	22,323	57,211	25,386	27,655	24,148	25,573	16,548	16,728	12,188	\$ 273,325
System Actual \$ - Capacity component of 5589 PURPA Purchases	208,657	493,426	(268,860)	368,845	509,370	847,799	1,618,463	1,690,019	1,667,318	938,792	543,650	341,754	\$ 8,959,232
System Actual \$ - Sch 2 pg 1 ANNUAL VIEW	\$ 792,884	\$ 1,138,893	\$ 380,492	\$ 971,890	\$ 1,208,239	\$ 1,610,539	\$ 3,855,160	\$ 3,916,287	\$ 3,914,333	\$ 2,353,414	\$ 1,151,253	\$ 716,086	\$ 22,009,471
NC Actual \$ (Calc) (1)	\$ 534,645	\$ 767,961	\$ 256,568	\$ 655,350	\$ 814,721	\$ 1,085,994	\$ 2,599,552	\$ 2,640,771	\$ 2,639,453	\$ 1,586,918	\$ 776,296	\$ 482,860	\$ 14,841,089
Billed rate (¢/kWh):	0.0297	0.0297	0.0297	0.0297	0.0297	0.0297	0.0297	0.0297	0.0275	0.0249	0.0249	0.0249	
Billed \$:	\$ 1,562,756	\$ 1,544,661	\$ 1,325,396	\$ 1,261,158	\$ 1,326,628	\$ 1,479,764	\$ 1,746,439	\$ 1,714,931	\$ 1,461,453	\$ 1,192,824	\$ 1,111,112	\$ 1,261,437	\$ 16,988,560
(Over)/Under \$:	\$ (1,028,111)	\$ (776,700)	\$ (1,068,828)	\$ (605,807)	\$ (511,907)	\$ (393,770)	\$ 853,113	\$ 925,839	\$ 1,178,000	\$ 394,095	\$ (334,816)	\$ (778,577)	\$ (2,147,470)
TOTAL (Over)/ Under \$:	\$ 1,334,496	\$ 13,738	\$ (41,854)	\$ 1,585,133	\$ 1,976,518	\$ 4,828,874	\$ 3,020,887	\$ (693,301)	\$ 762,515	\$ 1,485,646	\$ 2,378,611	\$ (419,297)	\$ 16,231,966

Note: The billed rate for September is pro-rated based on number of billing days in cycle on new rate schedules.

rounding differences may occur

2023	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23	Dec-23	12 ME
System kWh Sales - Sch 4, Adjusted	7,854,287,999	6,934,846,782	6,641,557,020	6,514,366,828	6,146,930,258	7,019,586,081	7,980,161,318	8,668,518,310	8,276,682,129	6,736,893,311	6,257,253,723	7,454,787,248	86,485,871,009
NC Retail kWh Sales - Sch 4	5,297,871,075	4,651,448,264	4,457,422,794	4,384,886,138	4,081,225,729	4,645,595,587	5,265,835,034	5,747,161,460	5,553,369,282	4,434,404,716	4,239,284,678	4,771,175,352	57,529,680,110
NC Retail % of Sales, Actuals (Calc)	67.45%	67.07%	67.11%	67.31%	66.39%	66.18%	65.99%	66.30%	67.10%	65.82%	67.75%	64.00%	66.52%
NC Retail % of Sales, Adjusted (Calc)	67.45%	67.07%	67.11%	67.31%	66.39%	66.18%	65.99%	66.30%	67.10%	65.82%	67.75%	64.00%	64.00%
NC retail production plant%	66.68%	66.68%	66.68%	66.68%	67.59%	67.59%	67.59%	67.59%	67.59%	67.59%	67.59%	67.59%	67.40%
Fuel and Fuel related component of purchased power													
System Actual \$ - Sch 3 Fuel\$:	\$ 16,094,191	\$ 3,933,514	\$ 11,713,010	\$ 8,938,848	\$ 12,094,329	\$ 11,531,053	\$ 16,165,913	\$ 20,551,811	\$ 19,251,830	\$ 24,023,842	\$ 23,932,793	\$ 9,961,878	\$ 178,193,012
System Actual \$ - Sch 3 Fuel-related\$; Economic Purchases	4,490,389	695,666	1,243,143	916,124	952,826	1,326,377	1,881,336	2,622,880	1,602,457	1,568,493	1,720,196	2,480,693	21,500,580
System Actual \$ - Sch 3 Fuel-related\$; Purchased Power for CEPS Compliance	3,611,490	7,870,147	3,867,355	5,211,256	5,135,046	5,506,547	5,557,340	5,455,614	5,098,575	4,206,666	3,924,590	3,303,809	58,748,435
System Actual\$ - Sch 3 Fuel-related\$; SC DERP	150,010	263,513	161,232	259,030	244,568	242,598	269,439	270,334	237,447	261,069	232,453	169,028	2,760,721
System Actual\$ - Sch 3 Fuel-related\$; SC ACT 62 (Solar Choice)										102,653	3,046	13,237	118,936
System Actual \$ - Sch 3 Fuel-related\$; HB589 purpa Purchases	2,294,533	3,127,298	2,300,057	3,268,409	3,390,357	3,491,315	3,450,044	3,587,125	3,238,065	3,440,066	2,976,354	2,281,872	36,845,496
Total System Economic & QFS	26,640,613	15,890,138	19,284,797	18,593,667	21,817,127	22,097,890	27,324,072	32,487,764	29,428,373	33,602,789	32,789,431	18,210,518	298,167,179
Less:													
Native Load Transfers, Native Load Transfer Benefit & DE - Progress fees	\$ 12,596,278	\$ 2,192,181	\$ 11,669,944	\$ 8,737,817	\$ 12,131,496	\$ 11,592,645	\$ 16,561,057	\$ 21,669,458	\$ 19,697,648	\$ 23,609,791	\$ 22,989,786	\$ 9,378,130	\$ 172,826,231
Total System Economic \$ without Native Load Transfers	\$ 14,044,335	\$ 13,697,957	\$ 7,614,853	\$ 9,855,850	\$ 9,685,631	\$ 10,505,245	\$ 10,763,016	\$ 10,818,306	\$ 9,730,725	\$ 9,992,998	\$ 9,799,646	\$ 8,832,388	\$ 125,340,948
NC Actual \$ (Calc)	\$ 9,473,179	\$ 9,187,707	\$ 5,110,642	\$ 6,634,072	\$ 6,430,730	\$ 6,952,421	\$ 7,102,145	\$ 7,172,454	\$ 6,528,982	\$ 6,577,661	\$ 6,639,253	\$ 5,652,860	\$ 83,462,105
Billed rate (c/kWh):	0.1310	0.1310	0.1310	0.1310	0.1310	0.1310	0.1310	0.1310	0.1355	0.1409	0.1409	0.1409	
Billed \$:	\$ 6,940,173	\$ 6,093,363	\$ 5,839,192	\$ 5,744,169	\$ 5,346,376	\$ 6,085,697	\$ 6,898,206	\$ 7,528,740	\$ 7,522,049	\$ 6,247,484	\$ 5,972,586	\$ 6,721,949	\$ 76,939,983
(Over)/ Under \$:	\$ 2,533,006	\$ 3,094,344	\$ (728,550)	\$ 889,903	\$ 1,084,353	\$ 866,725	\$ 203,940	\$ (356,286)	\$ (993,067)	\$ 330,177	\$ 666,666	\$ (1,069,089)	\$ 6,522,122
Capacity component of purchased power													
System Actual \$ - Capacity component of Cherokee County Cogen Purchases	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
System Actual \$ - Capacity component of Purchased Power for CEPS Compliance	563,042	1,526,511	652,726	802,906	714,202	872,972	2,529,735	2,398,512	2,301,403	2,088,004	565,199	525,161	15,540,372
System Actual \$ - Capacity component of SC DERP	14,465	25,269	15,564	24,547	24,652	22,927	26,605	26,529	23,759	25,124	22,450	16,201	268,091
System Actual \$ - Capacity component of 5589 PURPA Purchases	350,921	371,971	360,503	458,527	390,711	654,705	1,628,121	1,569,122	1,497,533	1,372,274	539,208	350,819	9,544,415
System Actual \$ - Sch 2 pg 1 ANNUAL VIEW	\$ 928,428	\$ 1,923,752	\$ 1,028,793	\$ 1,285,979	\$ 1,129,564	\$ 1,550,603	\$ 4,184,461	\$ 3,994,163	\$ 3,822,694	\$ 3,485,402	\$ 1,126,858	\$ 892,181	\$ 25,352,878
NC Actual \$ (Calc) (1)	\$ 619,088	\$ 1,282,782	\$ 686,012	\$ 857,507	\$ 763,429	\$ 1,047,993	\$ 2,828,114	\$ 2,699,499	\$ 2,583,610	\$ 2,355,647	\$ 761,599	\$ 602,990	\$ 17,088,272
Billed rate (c/kWh):	0.0265	0.0265	0.0265	0.0265	0.0265	0.0265	0.0265	0.0265	0.0280	0.0297	0.0297	0.0297	
Billed \$:	\$ 1,405,059	\$ 1,233,620	\$ 1,182,162	\$ 1,162,925	\$ 1,082,390	\$ 1,232,068	\$ 1,396,563	\$ 1,524,217	\$ 1,557,210	\$ 1,317,832	\$ 1,259,846	\$ 1,417,915	\$ 15,771,809
(Over)/Under \$:	\$ (785,972)	\$ 49,162	\$ (496,150)	\$ (305,417)	\$ (318,962)	\$ (184,076)	\$ 1,431,551	\$ 1,175,283	\$ 1,026,400	\$ 1,037,815	\$ (498,247)	\$ (814,925)	\$ 1,316,463
TOTAL (Over)/ Under \$:	\$ 1,747,035	\$ 3,143,505	\$ (1,224,700)	\$ 584,485	\$ 765,392	\$ 682,649	\$ 1,635,491	\$ 818,997	\$ 33,333	\$ 1,367,992	\$ 168,420	\$ (1,884,014)	\$ 7,838,585

Note: The billed rate for September and October are pro-rated based on number of billing days in cycle on new rate schedules.
(1) January - April NC actual capacity shown herein is adjusted to reflect use of 2022 production plant allocation factor. Actual true-up related to allocator was made as prior period adjustment in May 2023 of Schedule 4.

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Actual Sales by Jurisdiction - Subject to Weather
Twelve Months Ended December 31, 2024
Docket E-7, Sub 1313

Sykes Workpaper 10

		MWhs					
Line #	Description	Reference	North Carolina	South Carolina	Total Company	% NC	% SC
1	Residential	Company Records	22,502,849	7,058,282	29,561,131	76.12	23.88
2	Total General Service	Company Records	24,578,693	6,186,972	30,765,665		
3	less Lighting and Traffic Signals		548,479	160,145	708,625		
4	General Service subject to weather		24,030,214	6,026,827	30,057,041	79.95	20.05
5	Industrial	Company Records	11,744,488	8,128,620	19,873,108	59.10	40.90
6	Total Retail Sales	Lines 1+2+5	58,826,030	21,373,874	80,199,904		
7	Total Retail Sales subject to weather	Lines 1+4+5	58,277,551	21,213,729	79,491,280	73.31	26.69

This does not exclude Greenwood and includes the impact of SC DERP net metering generation

rounding differences may occur

Duke Energy Carolinas, LLC
North Carolina Annual Fuel and Fuel Related Expense
Weather Normalization Adjustment
Twelve Months Ended December 31, 2024
Docket E-7, Sub 1313

Sykes Workpaper 11
Page 1

Line #	Description	REFERENCE	Total Company MWh	NC RETAIL		SC RETAIL	
				% To Total	MWh	% To Total	MWh
	<u>Residential</u>						
1	Total Residential		606,153	76.12	461,404	23.88	144,749
	<u>General Service</u>						
2	Total General Service		23,096	79.95	18,465	20.05	4,631
	<u>Industrial</u>						
3	Total Industrial		<u>(3,570)</u>	59.10	<u>(2,110)</u>	40.90	<u>(1,460)</u>
4	Total Retail	L1+ L2+ L3	625,679		477,759		147,920
5	Wholesale		16,939				
6	Total Company	L4 + L5	<u>642,618</u>		<u>477,759</u>		<u>147,920</u>

rounding differences may occur

	Residential	Commercial	Industrial	
2024	TOTAL MWH ADJUSTMENT	TOTAL MWH ADJUSTMENT	TOTAL MWH ADJUSTMENT	
JAN	47,598	3,568	(1,248)	
FEB	438,857	55,808	(2,849)	
MAR	275,904	26,030	-	
APR	9,065	(21,388)	(5,612)	
MAY	(83,666)	(34,895)	(7,206)	
JUN	(67,299)	(27,943)	(6,821)	
JUL	(255,448)	(89,094)	(17,889)	
AUG	62,242	20,196	3,592	
SEP	194,200	131,569	51,595	
OCT	(80,219)	(24,139)	(9,005)	
NOV	92,929	(7,704)	(8,176)	
DEC	(28,009)	(8,914)	50	
Total	606,153	23,096	(3,570)	625,679

Wholesale			
2024	TOTAL MWH ADJUSTMENT	Note:	The Resale customers include:
JAN	4,235	1	Concord ¹
FEB	15,625	2	Dallas
MAR	15,123	3	Forest City
APR	(32)	4	Kings Mountain ¹
MAY	(5,340)	5	Due West
JUN	(13,745)	6	Prosperity ²
JUL	(11,550)	7	Lockhart
AUG	772	8	Western Carolina University
SEP	2,186	9	City of Highlands
OCT	(1,935)	10	Haywood
NOV	14,828	11	Piedmont
DEC	(3,227)	12	Rutherford
		13	Blue Ridge
Total	16,939	14	Greenwood ¹

¹Wholesale load is no longer being served by Duke as of December 2018.

²Wholesale load is no longer being served by Duke as of December 2019.

rounding differences may occur

<u>Line</u>	<u>Estimation Method</u> ¹	<u>Rate Schedule</u>	NC	SC	Wholesale	Total Company
			Proposed kWh ¹ Adjustment	Proposed kWh Adjustment	Proposed kWh Adjustment	
1	Regression	Residential	256,382,598	56,303,100		
2						
3		General Service (Excluding Lighting):				
4	Customer	General Service Small and Large	(114,331,581)	9,338,188		
5	Regression	Miscellaneous	(766,695)	651,608		
6		Total General	(115,098,276)	9,989,796		
7						
8		Lighting:				
9	Regression	T & T2 (GL/FL/PL/OL) ²	(2,938,060)	(1,083,028)		
10	Regression	TS	(9,302)	(3,501)		
11		Total Lighting	(2,947,362)	(1,086,529)		
12						
13		Industrial:				
14	Customer	I - Textile	11,173,803	(4,113,323)		
15	Customer	I - Nontextile	(8,830,669)	(2,166,048)		
16		Total Industrial	2,343,134	(6,279,371)		
17						
18						
19		Total	140,680,094	58,926,996	100,325,526	299,932,616
WP 12-2						

Notes:

¹Two approved methods are used for estimating the growth adjustment depending on the class/schedule:

"Regression" refers to the use of Ordinary Least Squares Regression

"Customer" refers to the use of the Customer by Customer approach.

²T and T2 were combined due to North Carolina's FL & GL schedules being merged into OL & PL.
rounding differences may occur

Calculation of Customer Growth Adjustment to kWh Sales - Wholesale

Line No.	Reference	
1	Total System Resale (kWh Sales)	Company Records 10,884,991,675
2	Less Intersystem Sales	Exhibit 6, Sch 1 1,400,272,533
3	Total kWh Sales Excluding Intersystem Sales	L1 - L2 9,484,719,142
4	Residential Growth Factor	Line 8 1.0578
5	Adjustment to kWhs - Wholesale	L3 * L4 / 100 100,325,526
6	Total System Retail Residential kWh Sales	Company Records 29,561,131,178
7	2024 Proposed Adjustment kWh - Residential (NC+SC)	WP 12-1 312,685,698
8	Percent Adjustment	L7 / L6 * 100 1.0578

rounding differences may occur