



Docket No. E-100, Sub 147

Duke Energy Carolinas

**NC Renewable Energy &
Energy Efficiency Portfolio
Standard (NC REPS)
Compliance Plan**

Disclosed August 2021

Table 2: Current and Projected Avoided Cost Rates Table

CURRENT AVOIDED ENERGY AND CAPACITY COST (approved in E-100 Sub 140)			
	On-Peak Energy⁽¹⁾ (\$/MWh)	Off-Peak Energy⁽¹⁾ (\$/MWh)	Capacity Cost – Installed CT Cost⁽²⁾ (\$/kW)
2018	33.90	29.57	639
2019	35.48	30.41	639
2020	34.26	31.21	639
PROJECTED AVOIDED ENERGY AND CAPACITY COST (filed in E-100, Sub 148)⁽⁴⁾			
	On-Peak Energy (\$/MWh)	Off-Peak Energy (\$/MWh)	Capacity Cost – Installed CT Cost⁽³⁾ (\$/kW)
2018	37.18	27.84	639
2019	35.10	27.10	639
2020	35.16	27.40	639

Notes

(1) On-peak and off-peak energy rates based on Option B hours and information derived using methodology filed in Docket No. E-100, Sub 148.

(2) Capacity Cost column provides the installed CT cost with AFUDC /nominal capacity filed in Docket No. E-100, Sub 148.

(3) The capacity cost shown is a placeholder based on current avoided cost filing.

(4) Does not incorporate additional considerations used in rate calculation and is subject to change.

PROJECTED TOTAL NORTH CAROLINA RETAIL AND WHOLESALE SALES AND YEAR-END NUMBER OF CUSTOMER ACCOUNTS BY CLASS

Table 3: Retail Sales for Retail and Wholesale Customers

	2016 Actual	2017 Forecast	2018 Forecast	2019 Forecast (1)
Retail MWh Sales	57,542,362	56,984,744	57,381,989	57,654,126
Wholesale MWh Sales	3,579,968	3,612,656	3,647,337	2,619,572
Total MWh Sales	61,122,330	60,597,400	61,029,326	60,273,698

The MWh sales reported above are those applicable to REPS compliance years 2017-2020, and represent actual MWh sales for 2016, and projected MWh sales for 2017-2019.

(1) DEC's contractual obligation to serve as designated utility compliance aggregator for two of its seven wholesale customers for which it provides REPS compliance services ends effective December 31, 2018. Combined estimated retail sales for the City of Concord and the City of Kings Mountain total 1,062,827 MWhs for 2019, and are excluded from the 2019 amount shown above.

EXHIBIT A

**Duke Energy Carolinas, LLC's 2017 REPS Compliance Plan
Duke Energy Carolinas' Renewable Resource Procurement from 3rd Parties
(signed contracts as of June 30, 2017)**

[BEGIN CONFIDENTIAL]

Resource Supplier	Contract Duration	REC Only	Estimated RECs		
			2017	2018	2019
SOLAR RESOURCES					
[REDACTED]	15 year		-	3,504	3,486
[REDACTED]	15 year		4,911	4,887	4,862
[REDACTED]	15 year		7,804	7,765	7,726
[REDACTED]	15 year		8,436	8,393	8,351
[REDACTED]	15 year		8,287	8,221	8,155
[REDACTED]	15 year		4,911	4,887	4,862
[REDACTED]	15 year		32,895	32,731	32,567
[REDACTED]	15 year		6,650	6,596	6,544
[REDACTED]	15 year		7,816	7,777	7,739
[REDACTED]	15 year		7,008	6,973	6,938
[REDACTED]	15 year		-	-	5,687
[REDACTED]	15 year		4,306	4,284	4,263
[REDACTED]	15 year		6,562	6,529	6,496
[REDACTED]	15 year		7,008	6,973	6,938
[REDACTED]	15 year		8,394	8,352	8,310
[REDACTED]	15 year		8,194	8,153	8,112
[REDACTED]	15 year				

			3,264	3,248	3,231
[REDACTED]	15 year		8,394	8,352	8,310
[REDACTED]	15 year		8,323	8,257	8,191
[REDACTED]	20 year		6,696	6,642	6,589
[REDACTED]	15 year		8,431	8,388	8,346
[REDACTED]	15 year	Y	3,329	3,312	3,295
[REDACTED]	15 year		5,462	5,435	5,408
[REDACTED]	15 year		-	-	8,351
[REDACTED]	15 year		8,436	8,393	8,351
[REDACTED]	15 year		7,804	7,765	7,726
[REDACTED]	20 year	Y	8,000	8,000	7,875
[REDACTED]	15 year	Y	3,329	3,312	3,295
[REDACTED]	15 year		5,462	5,435	5,408
[REDACTED]	15 year		4,906	4,882	4,857
[REDACTED]	15 year		-	-	2,312
[REDACTED]	15 year		8,336	8,270	8,204
[REDACTED]	5 year	Y	132	-	-
[REDACTED]	5 year	Y	92	-	-
[REDACTED]	5 year	Y	106	-	-
[REDACTED]	5 year	Y	32	-	-
[REDACTED]	15 year		8,134	8,093	8,053
[REDACTED]	15 year		8,394	8,352	8,310

[REDACTED]	15 year	1,965	1,956	1,946
[REDACTED]	15 year	3,256	3,240	3,224
[REDACTED]	15 year	3,176	3,160	3,144
[REDACTED]	15 year	3,097	3,082	3,066
[REDACTED]	15 year	3,246	3,230	3,214
[REDACTED]	15 year	3,097	3,082	3,066
[REDACTED]	15 year	-	-	7,726
[REDACTED]	15 year	3,176	3,160	3,144
[REDACTED]	15 year	8,758	8,714	8,671
[REDACTED]	15 year	5,946	5,916	5,887
[REDACTED]	15 year	3,280	3,263	3,247
[REDACTED]	5 year	200	-	-
[REDACTED]	15 year	8,185	8,144	8,103
[REDACTED]	15 year	8,067	8,027	7,987
[REDACTED]	15 year	8,311	8,245	8,179
[REDACTED]	15 year	8,436	8,393	8,351
[REDACTED]	15 year	4,709	4,685	4,662
[REDACTED]	15 year	4,709	4,685	4,662
[REDACTED]	15 year	8,134	8,093	8,053
[REDACTED]	15 year	8,246	8,180	8,114
[REDACTED]	15 year	8,273	8,207	8,141
[REDACTED]	15 year			

			3,246	3,230	3,214
[REDACTED]	15 year		8,394	8,352	8,310
[REDACTED]	15 year		-	-	8,025
[REDACTED]	15 year		7,800	7,761	7,722
[REDACTED]	16 year	Y	134	134	134
[REDACTED]	15 year		-	7,898	7,859
[REDACTED]	15 year		3,279	3,262	3,246
[REDACTED]	15 year		8,394	8,352	8,310
[REDACTED]	15 year		8,162	8,121	8,080
[REDACTED]	15 year	Y	3,329	3,312	3,295
[REDACTED]	15 year		3,243	3,226	3,210
[REDACTED]	15 year		7,620	7,582	7,544
[REDACTED]	15 year		8,431	8,388	8,346
[REDACTED]	15 year		7,377	7,340	7,303
[REDACTED]	15 year		-	-	7,700
[REDACTED]	15 year		5,840	8,707	8,664
[REDACTED]	15 year		8,173	8,132	8,091
[REDACTED]	15 year		8,079	8,038	7,998
[REDACTED]	20 year		28,327	28,185	28,045
[REDACTED]	5 year		240	240	240
[REDACTED]	20 year		412	410	408
[REDACTED]	15 year		5,256	8,713	8,669

[REDACTED]	15 year		8,256	8,190	8,125
[REDACTED]	15 year		1,305	1,299	1,292
[REDACTED]	15 year		8,336	8,270	8,204
[REDACTED]	15 year	Y	3,279	3,252	3,226
[REDACTED]	15 year		7,735	7,696	7,658
[REDACTED]	15 year		8,276	8,210	8,144
[REDACTED]	15 year		8,173	8,132	8,091
[REDACTED]	15 year		3,230	3,214	3,198
Total 3rd party solar resources			510,837	525,270	562,086

BIOMASS RESOURCES			2017	2018	2019
[REDACTED]	16 year	Y	8,250	22,000	22,000
[REDACTED]	15 year		-	32,083	55,000
[REDACTED]	20 year		11,914	11,914	11,914
[REDACTED]	20 year		71,405	71,405	71,405
[REDACTED]	5 year	Y	225,000	225,000	225,000
[REDACTED]	20 year		13,000	13,000	13,000
[REDACTED]	20 year		20,893	20,893	20,893
[REDACTED]	20 year		24,835	24,835	24,835
[REDACTED]	10 year		34,059	34,059	34,059
[REDACTED]	5 year		22,000	22,000	-
[REDACTED]	10 year		28,032	28,032	28,032
[REDACTED]	10 year				

			12,000	12,000	12,000
	20 year	Y	-	60,000	60,000
	15 year		84,950	84,950	84,950
	Spot	Y	150,000	150,000	-
	10 year	Y	15,000	15,000	15,000
	15 year	Y	4,530	13,590	13,590
	20 year	Y	15,000	15,000	15,000
	18 year	Y	500	500	500
	5 year		3,400	-	-
	6 year	Y	65,000	-	-
	7 year	Y	40,000	45,000	-
	5 year	Y	9,000	6,500	-
	15 year		16,819	16,819	16,819
Total 3rd party biomass resources			875,587	924,580	723,997

**POULTRY WASTE TO ENERGY
RESOURCES**

			2017	2018	2019
	16 year	Y	-	42,500	62,500
	15 year	Y	3,034	36,410	36,410
	15 year		-	-	55,000
	10 year	Y	10,000	50,000	70,000
	15 year	Y	13,675	27,350	27,350
	15 year	Y	20,000	40,000	40,000
	20 year	Y	-	10,000	72,000

[REDACTED]	15 year	Y	6,100	6,100	6,100
[REDACTED]	15 year	Y	6,400	6,400	6,400
[REDACTED]	6 year	Y	-	-	15,000
[REDACTED]	20 year	Y	30,000	30,000	30,000
[REDACTED]	18 year	Y	1,000	1,000	1,000
[REDACTED]	6 year	Y	18,000	-	-
[REDACTED]	7 year	Y	60,000	60,000	-
[REDACTED]	5 year	Y	10,000	9,633	-
Total 3rd party poultry resources			178,209	319,393	421,760

**SWINE WASTE TO ENERGY
RESOURCES**

			2017	2018	2019
[REDACTED]	10 year	Y	5,000	5,000	5,000
[REDACTED]	20 year	Y	572	4,572	6,858
[REDACTED]	10 year	Y	10,000	16,700	16,700
[REDACTED]	7 year	Y	512	512	512
[REDACTED]	20 year	Y	-	6,349	10,884
[REDACTED]	20 year	Y	1,816	1,816	1,816
[REDACTED]	20 year	Y	-	-	2,725
[REDACTED]	10 year	Y	-	25,000	42,800
[REDACTED]	20 year	Y	4,205	4,205	4,205
Total 3rd party swine resources			22,105	64,154	91,500

**HYDROELECTRIC ENERGY
RESOURCES**

			2017	2018	2019
[REDACTED]	5 year				

		14,000	-	-
	5 year	5,000	-	-
	5 year	350	-	-
	5 year	16,320	3,160	-
	5 year	1,800	-	-
	15 year	5,000	-	-
	15 year	3,800	-	-
	10 year	3,000	3,000	3,000
	10 year	5,000	5,000	5,000
	10 year	5,000	5,000	5,000
	15 year	3,200	-	-
	5 year	4,000	-	-
	5 year	4,500	-	-
	5 year	366	366	366
	5 year	7,423	7,423	7,423
	5 year	1,714	1,714	1,714
	5 year	9,986	9,986	9,986
	5 year	9,000	-	-
	5 year	6,000	-	-
	Ongoing	1,500	-	-
	5 year	400	-	-
	10 year	4,000	-	-

[REDACTED]	15 Year	1,500	-	-
[REDACTED]	10 Year	7,000	-	-
Total 3rd party hydroelectric resources		119,859	35,649	32,489
WIND ENERGY RESOURCES		2017	2018	2019
[REDACTED]	Spot	Y	250,000	-
[REDACTED]	Spot	Y	750,000	250,000
Total 3rd party wind resources		1,000,000	250,000	-

[END CONFIDENTIAL]