

renewable resources that will allow the Company to comply with its NC REPS obligation over the Planning Period.

IV. COST IMPLICATIONS OF REPS COMPLIANCE PLAN

A. CURRENT AND PROJECTED AVOIDED COST RATES

The Current Avoided Energy and Capacity costs included in the table below represent key data elements used to determine the PP (NC) tariff rates approved in the Commission’s *Order Establishing Avoided Cost Rates for DEC and DEP*, issued in Docket No. E-100, Sub 140 (March 10, 2016). The “Energy” columns reflect the cost of fuel and variable O&M per kwh embedded in the approved tariff energy rates. The “Capacity” column is based on the installed cost and capacity rating of a combustion turbine unit as reflected in the approved tariff capacity rates.

The Projected Avoided Energy and Capacity Costs included below reflect updated estimates of the same data elements provided with the current costs. The projected costs contained herein are subject to change, including (but not limited to) fuel price projections, variable O&M estimates, turbine costs and equipment capability.

Table 2: Current and Projected Avoided Cost Rates Table

CURRENT AVOIDED ENERGY AND CAPACITY COST (from E-100 Sub 140)			
	On-Peak Energy⁽¹⁾ (\$/MWh)	Off-Peak Energy⁽¹⁾ (\$/MWh)	Capacity Cost – Installed CT Cost⁽²⁾ (\$/kW)
2017	42.63	33.93	673
2018	44.73	33.44	673
2019	43.49	35.10	673
PROJECTED AVOIDED ENERGY AND CAPACITY COST			
	On-Peak Energy (\$/MWh)	Off-Peak Energy (\$/MWh)	Capacity Cost – Installed CT Cost (\$/kW) ⁽³⁾
2017	43.51	26.55	673
2018	40.08	29.00	673
2019	38.88	26.79	673

Notes: (1) On-peak and off-peak energy rates based on Option B hours and information derived using methodology approved in Docket No. E-100, Sub 140
(2) Capacity Cost column provides the installed CT cost with AFUDC /summer capacity based on the Memorandum of Understanding between Duke Energy Carolinas, Duke Energy Progress, the NC Public Staff and other parties agreed to in Docket No. E-100, Sub 140
(3) The capacity cost shown is a placeholder based on previous avoided cost filing and is subject to change in upcoming filings.

REVISED EXHIBIT A

**Duke Energy Carolinas, LLC's 2016 REPS Compliance Plan
Duke Energy Carolinas' Renewable Resource Procurement from 3rd Parties
(signed contracts as of June 30, 2016)**

[BEGIN CONFIDENTIAL]

*Indicates bundle purchase of RECs and energy, as opposed to REC-only purchase.

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Resource Supplier	Contract Duration*	Estimated RECs		
SOLAR RESOURCES		2016	2017	2018
[REDACTED]	5 Years*	115	-	-
[REDACTED]	15 Years*	3,702	4,911	4,887
[REDACTED]	15 Years*	7,844	7,804	7,765
[REDACTED]	15 Years*	8,478	8,436	8,393
[REDACTED]	15 Years*	8,354	8,287	8,221
[REDACTED]	15 Years*	3,702	4,911	4,887
[REDACTED]	15 Years*	33,061	32,895	32,731
[REDACTED]	15 Years*	6,703	6,650	6,596
[REDACTED]	15 Years*	7,856	7,816	7,777
[REDACTED]	15 Years*	4,327	4,306	4,284
[REDACTED]	15 Years*	6,595	6,562	6,529
[REDACTED]	15 Years*	8,436	8,394	8,352
[REDACTED]	15 Years*	6,176	8,194	8,153
[REDACTED]	5 Years*	80	-	-
[REDACTED]	15 Years*	957	3,264	3,248
[REDACTED]	15 Years*	8,436	8,394	8,352
[REDACTED]	15 Years*	8,390	8,323	8,257
[REDACTED]	20 Years*	6,750	6,696	6,642
[REDACTED]	15 Years*	8,473	8,431	8,388
[REDACTED]	15 Years*	3,345	3,329	3,312
[REDACTED]	15 Years*	5,490	5,462	5,435
[REDACTED]	15 Years*	8,478	8,436	8,393
[REDACTED]	15 Years*	7,843	7,804	7,765
[REDACTED]	20 Years*	8,000	8,000	8,000
[REDACTED]	15 Years*	3,345	3,329	3,312
[REDACTED]	15 Years*	5,490	5,462	5,435
[REDACTED]	15 Years*	4,931	4,906	4,882
[REDACTED]	15 Years*	8,404	8,336	8,270
[REDACTED]	5 Years*	132	132	-
[REDACTED]	5 Years*	92	92	-

[REDACTED]	5 Years*	106	106	-
[REDACTED]	5 Years*	32	32	-
[REDACTED]	15 Years*	8,175	8,134	8,093
[REDACTED]	15 Years*	8,436	8,394	8,352
[REDACTED]	15 Years*	1,975	1,965	1,956
[REDACTED]	15 Years*	3,272	3,256	3,240
[REDACTED]	15 Years*	3,192	3,176	3,160
[REDACTED]	15 Years*	3,113	3,097	3,082
[REDACTED]	15 Years*	3,262	3,246	3,230
[REDACTED]	15 Years*	3,113	3,097	3,082
[REDACTED]	15 Years*	3,192	3,176	3,160
[REDACTED]	15 Years*	5,976	5,946	5,916
[REDACTED]	5 Years*	200	200	-
[REDACTED]	15 Years*	3,428	8,185	8,144
[REDACTED]	15 Years*	8,108	8,067	8,027
[REDACTED]	15 Years*	8,378	8,311	8,245
[REDACTED]	5 Years*	42	-	-
[REDACTED]	15 Years*	8,478	8,436	8,393
[REDACTED]	15 Years*	3,549	4,709	4,685
[REDACTED]	15 Years*	3,549	4,709	4,685
[REDACTED]	15 Years*	8,175	8,134	8,093
[REDACTED]	15 Years*	8,312	8,246	8,180
[REDACTED]	15 Years*	8,340	8,273	8,207
[REDACTED]	15 Years*	8,436	8,394	8,352
[REDACTED]	5 Years*	300	-	-
[REDACTED]	15 Years*	5,879	7,800	7,761
[REDACTED]	15 Years*	134	134	134
[REDACTED]	15 Years*	3,295	3,279	3,262
[REDACTED]	15 Years*	8,436	8,394	8,352
[REDACTED]	15 Years*	8,203	8,162	8,121
[REDACTED]	15 Years*	3,345	3,329	3,312
[REDACTED]	15 Years*	3,259	3,243	3,226
[REDACTED]	15 Years*	7,659	7,620	7,582
[REDACTED]	15 Years*	8,473	8,431	8,388
[REDACTED]	15 Years*	5,560	7,377	7,340
[REDACTED]	15 Years*	6,160	8,173	8,132
[REDACTED]	15 Years*	8,119	8,079	8,038
[REDACTED]	20 Years*	28,469	28,327	28,185
[REDACTED]	5 Years*	240	240	240

[REDACTED]	20 Years*	414	412	410
[REDACTED]	15 Years*	8,323	8,256	8,190
[REDACTED]	15 Years*	8,404	8,336	8,270
[REDACTED]	16 Years*	3,345	3,279	3,252
[REDACTED]	15 Years*	7,774	7,735	7,696
[REDACTED]	15 Years*	8,343	8,276	8,210
[REDACTED]	15 Years*	6,160	8,173	8,132
[REDACTED]	15 Years*	3,246	3,230	3,214
Total 3rd party solar resources		450,364	469,136	465,995

BIOMASS RESOURCES		2016	2017	2018
[REDACTED]	16 Years*	-	22,000	22,000
[REDACTED]	20 Years*	11,914	11,914	11,914
[REDACTED]	20 Years*	71,405	71,405	71,405
[REDACTED]	5 Years*	225,000	225,000	225,000
[REDACTED]	20 Years*	13,000	13,000	13,000
[REDACTED]	20 Years*	20,893	20,893	20,893
[REDACTED]	10 Years*	15,000	15,000	15,000
[REDACTED]	20 Years*	24,835	24,835	24,835
[REDACTED]	10 Years*	34,059	34,059	34,059
[REDACTED]	5 Years*	22,000	22,000	22,000
[REDACTED]	9 Years*	28,032	28,032	28,032
[REDACTED]	9 Years*	11,500	12,000	12,000
[REDACTED]	26 Years*	-	-	497
[REDACTED]	26 Years*	-	-	497
[REDACTED]	15 Years*	74,475	74,475	74,475
[REDACTED]	Spot Purchase*	150,000	150,000	150,000
[REDACTED]	10 Years*	15,000	15,000	15,000
[REDACTED]	15 Years*	-	4,530	13,590
[REDACTED]	18 Years*	500	500	500
[REDACTED]	6 Years*	92,000	46,000	-
[REDACTED]	7 Years*	30,000	30,000	-
[REDACTED]	5 Years*	20,000	20,000	6,500
[REDACTED]	16 Years, 5 Months* (Cancelled)	5,000	-	-
[REDACTED]	15 Years*	16,819	16,819	16,819
Total 3rd party biomass resources		881,432	862,462	783,016

**POULTRY WASTE TO ENERGY
RESOURCES**

		2016	2017	2018
[REDACTED]	16 Years*	-	62,500	62,500
[REDACTED]	10 Years*	22,800	70,000	70,000
[REDACTED]	15 Years*	7,293	21,880	21,880
[REDACTED]	15 Years*	10,000	30,000	30,000
[REDACTED]	10 Years*	-	15,000	15,000
[REDACTED]	15 Years*	-	5,367	16,100
[REDACTED]	7 Years*	30,000	30,000	30,000
[REDACTED]	18 Years*	1,000	1,000	1,000
[REDACTED]	6 Years*	-	4,500	4,500
[REDACTED]	7 Years*	58,000	58,000	-
[REDACTED]	6 Years*	10,000	10,000	9,633
[REDACTED]	6 Years*	-	-	-
[REDACTED]	Spot Purchase*	85,857	-	-
Total 3rd party poultry resources		224,950	308,247	260,613

**SWINE WASTE TO ENERGY
RESOURCES**

		2016	2017	2018
[REDACTED]	10 Years*	20,000	20,000	20,000
[REDACTED]	10 Years*	-	10,000	16,700
[REDACTED]	7 Years*	512	512	512
[REDACTED]	26 Years*	-	-	5,585
[REDACTED]	26 Years*	-	-	5,585
[REDACTED]	20 Years*	1,816	1,816	1,816
[REDACTED]	20 Years*	-	-	2,725
[REDACTED]	10 Years*	-	25,000	70,000
[REDACTED]	20 Years*	4,205	4,205	4,205
[REDACTED]	Spot Purchase*	376	-	-
Total 3rd party swine resources		26,909	61,533	127,128

HYDRO ELECTRIC RESOURCES

		2016	2017	2018
[REDACTED]	5 Years*	14,000	14,000	-
[REDACTED]	5 Years*	5,000	5,000	-

[REDACTED]	5 Years*	350	350	-
[REDACTED]	5 Years*	16,320	16,320	3,160
[REDACTED]	5 Years*	1,800	1,800	-
[REDACTED]	15 Years*	5,000	5,000	-
[REDACTED]	15 Years*	3,800	3,800	-
[REDACTED]	9 Years*	3,000	3,000	3,000
[REDACTED]	9 Years*	5,000	5,000	5,000
[REDACTED]	9 Years*	5,000	5,000	5,000
[REDACTED]	5 Years*	4,000	4,000	-
[REDACTED]	15 Years*	3,200	3,200	-
[REDACTED]	5 Years*	4,500	4,500	-
[REDACTED]	5 Years*	12,000	-	-
[REDACTED]	5 Years*	3,000	-	-
[REDACTED]	5 Years*	9,000	-	-
[REDACTED]	5 Years*	6,000	-	-
[REDACTED]	5 Years*	9,000	9,000	-
[REDACTED]	5 Years*	6,000	6,000	-
[REDACTED]	5 Years*	1,500	1,500	-
[REDACTED]	5 Years*	400	400	-
[REDACTED]	5 Years*	4,000	4,000	-
[REDACTED]	15 Years*	1,500	1,500	-
[REDACTED]	10 Years*	7,000	7,000	-
Total 3rd party hydroelectric resources		130,370	100,370	16,160

WIND ELECTRIC RESOURCES		2016	2017	2018
[REDACTED]	Spot Purchase*	750,000	250,000	-
Total 3rd party wind resources		750,000	250,000	-

Notes:

*Indicates bundled purchase of RECs and energy, as opposed to REC-only purchase.

[END CONFIDENTIAL]