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

CUF	RENT AVOIDED ENER	RGY 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.

Resource Supplier	Contract Duration*		stimated REC	c's
SOLAR RESOURCES		2016	2017	2018
E2 时间307学85322数据	5 Years*	115	-	-
profit site of the second of	15 Years*	3,702	4,911	4,887
我把握他是一个人的意思	15 Years*	7,844	7,804	7,765
Mark the 122	15 Years*	8,478	8,436	8,393
PRINCIPLE AND A SERVICE	15 Years*	8,354	8,287	8,221
responsible to the second	15 Years*	3,702	4,911	4,887
Comment of the state of the sta	15 Years*	33,061	32,895	32,731
从中心中的4年50年3.0 年50 年3	15 Years*	6,703	6,650	6,596
	15 Years*	7,856	7,816	7,777
Control of the profession of the	15 Years*	4,327	4,306	4,284
以其代表的。 1981年	15 Years*	6,595	6,562	6,529
公司的基础。当为通过的基	15 Years*	8,436	8,394	8,352
	15 Years*	6,176	8,194	8,153
2011年 · 日本大学科的代码的中央	5 Years*	80	-	
50个12-16-15-2-15-2-1 3-13-13-13-1	15 Years*	957	3,264	3,248
· 1946年1月1日 - 图象建模	15 Years*	8,436	8,394	8,352
With the same of t	15 Years*	8,390	8,323	8,257
POTE TO THE PROPERTY OF	20 Years*	6,750	6,696	6,642
STATE OF THE STATE	15 Years*	8,473	8,431	8,388
and the professions.	15 Years*	3,345	3,329	3,312
· · · · · · · · · · · · · · · · · · ·	15 Years*	5,490	5,462	5,435
	15 Years*	8,478	8,436	8,393
La destruction and experience that	15 Years*	7,843	7,804	7,765
A CONTRACTOR OF THE PROPERTY O	20 Years*	8,000	8,000	8,000
Part of the second of	15 Years*	3,345	3,329	3,312
Market Committee Com	15 Years*	5,490	5,462	5,435
2012年1月2日 2012年1月2日 2月1日 2月1日 2月1日 2月1日 2月1日 2月1日 2月1日	15 Years*	4,931	4,906	4,882
The state of the s	15 Years*	8,404	8,336	8,270
	5 Years*	132	132	_
从影响的人们的人们	5 Years*	92	92	-

	5 Years*	106	106	_
The state of the s	5 Years*	32	32	-
A Superior Control of the Control of	15 Years*	8,175	8,134	8,093
	15 Years*	8,436	8,394	8,352
(共) [1] [1] [2] [2] [2] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	15 Years*	1,975	1,965	1,956
高级特别。\$P\$\$P\$183.183.183.28	15 Years*	3,272	3,256	3,240
在11.10000000000000000000000000000000000	15 Years*	3,192	3,176	3,160
AND AND AND THE PROPERTY.	15 Years*	3,113	3,097	3,082
· 在4世界中的大学。 21年 14年2月	15 Years*	3,262	3,246	3,230
A STATE OF THE STA	15 Years*	3,113	3,097	3,082
CHARLES A SECURE	15 Years*	3,192	3,176	3,160
The state of the s	15 Years*	5,976	5,946	5,916
The state of the s	5 Years*	200	200	_
· · · · · · · · · · · · · · · · · · ·	15 Years*	3,428	8,185	8,144
美国工程,其中国工程发展	15 Years*	8,108	8,067	8,027
· S. A.	15 Years*	8,378	8,311	8,245
Court of the thirty	5 Years*	42		-
	15 Years*	8,478	8,436	8,393
· 特別。這樣的意思	15 Years*	3,549	4,709	4,685
国际国际,对学体	15 Years*	3,549	4,709	4,685
The state of the s	15 Years*	8,175	8,134	8,093
and from the state of the	15 Years*	8,312	8,246	8,180
and the first of the second of	15 Years*	8,340	8,273	8,207
A ser the ser of the series	15 Years*	8,436	8,394	8,352
	5 Years*	300	_	-
a strategic or the six	15 Years*	5,879	7,800	7,761
1 The Control of the Late of the Control of the Con	15 Years*	134	134	134
Control of the Contro	15 Years*	3,295	3,279	3,262
	15 Years*	8,436	8,394	8,352
Secretary Control	15 Years*	8,203	8,162	8,121
	15 Years*	3,345	3,329	3,312
	15 Years*	3,259	3,243	3,226
以下生态的基础	15 Years*	7,659	7,620	7,582
。1875年 · A. G. 自然的特殊的特别	15 Years*	8,473	8,431	8,388
	15 Years*	5,560	7,377	7,340
San Barrier W. Call	15 Years*	6,160	8,173	8,132
并有数据的数 。(在	15 Years*	8,119	8,079	8,038
5年14月1日,1月1日,1月1日日	20 Years*	28,469	28,327	28,185
The same control of the same of the	5 Years*	240	240	240

CALL TO SELECT AND SERVICE OF THE SE	20 Years*	414	412	410
and hope distributions and the	15 Years*	8,323	8,256	8,190
电影器 数数数	15 Years*	8,404	8,336	8,270
and the great of the second of the second	16 Years*	3,345	3,279	3,252
The state of the s	15 Years*	7,774	7,735	7,696
	15 Years*	8,343	8,276	8,210
**************************************	15 Years*	6,160	8,173	8,132
	15 Years*	3,246	3,230	3,214
Total 3rd party solar resources		450,364	469,136	465,995
BIOMASS RESOURCES		2016	2017	2018
· (4) 16 · (4) · (4) · (4) · (4) · (4) · (4) · (4) · (4) · (4) · (4) · (4) · (4) · (4) · (4) · (4) · (4) · (4)	16 Years*	-	22,000	22,000
沙利特 化原性系统测量器	20 Years*	11,914	11,914	11,914
1. (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	20 Years*	71,405	71,405	71,405
。	5 Years*	225,000	225,000	225,000
人。 经营工资金 艾克姆维克特 医索特里氏层	20 Years*	13,000	13,000	13,000
	20 Years*	20,893	20,893	20,893
1、2015年1960年1961年1961年1961年1961年1961年1961年1961	10 Years*	15,000	15,000	15,000
为其种种。1912年,	20 Years*	24,835	24,835	24,835
AND THE STATE OF T	10 Years*	34,059	34,059	34,059
THE STATE OF THE SHAPE AND THE SAME	5 Years*	22,000	22,000	22,000
经通过税 医邻氏性性肠炎病性病毒	9 Years*	28,032	28,032	28,032
· · · · · · · · · · · · · · · · · · ·	9 Years*	11,500	12,000	12,000
2.5、14世界,李俊元章中张阳南东北京中的	26 Years*	-		497
A CONTRACTOR OF THE PROPERTY O	26 Years*	-	_	497
The second second	15 Years*	74,475	74,475	74,475
	Spot			
5. 15 等。在16 5年,第18 5年,19 5日,19 5日,1	Purchase*	150,000	150,000	150,000
The property of the state of th	10 Years*	15,000	15,000	15,000
	15 Years*	_	4,530	13,590
	18 Years*	500	500	500
1. 16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 Years*	92,000	46,000	-
	7 Years*	30,000	30,000	
	5 Years*	20,000	20,000	6,500
Carried Committee of the Committee of th	16 Years,			
	5 Months*	5,000	-	-
	(Cancelled)			
	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
医后弹性 的复数海绵 地名美国西班牙	16 Years*	_	62,500	62,500
	10 Years*	22,800	70,000	70,000
	15 Years*	7,293	21,880	21,880
	15 Years*	10,000	30,000	30,000
	10 Years*	<u> </u>	15,000	15,000
135、产业基金企业营护中基础制造出资金企业。	15 Years*	-	5,367	16,100
· State of the sta	7 Years*	30,000	30,000	30,000
10.11.11.12.11.12.11.11.11.11.11.11.11.11.	18 Years*	1,000	1,000	1,000
Belletin to the second	6 Years*	-	4,500	4,500
	7 Years*	58,000	58,000	
				0.622
	6 Years*	10,000	10,000	9,633
建筑 物种 法企业	6 Years*	_	-	-
	Spot			
。然后,他们就是一个人。 ————————————————————————————————————	Purchase*	85,857	_	
Total 3rd party poultry resources		224,950	308,247	260,613
1 out out purity pourity resources		224,730	300,247	200,013
		224,730	300,247	200,013
SWINE WASTE TO ENERGY				
SWINE WASTE TO ENERGY RESOURCES	10.17	2016	2017	2018
SWINE WASTE TO ENERGY	10 Years*		2017 20,000	2018 20,000
SWINE WASTE TO ENERGY RESOURCES	10 Years*	2016 20,000	2017 20,000 10,000	2018 20,000 16,700
SWINE WASTE TO ENERGY RESOURCES	10 Years* 7 Years*	2016 20,000 - 512	2017 20,000	2018 20,000 16,700 512
SWINE WASTE TO ENERGY RESOURCES	10 Years* 7 Years* 26 Years*	2016 20,000	2017 20,000 10,000	2018 20,000 16,700 512 5,585
SWINE WASTE TO ENERGY RESOURCES	10 Years* 7 Years* 26 Years* 26 Years*	2016 20,000 - 512 -	2017 20,000 10,000 512	2018 20,000 16,700 512 5,585 5,585
SWINE WASTE TO ENERGY RESOURCES	10 Years* 7 Years* 26 Years* 26 Years* 20 Years*	2016 20,000 - 512	2017 20,000 10,000	2018 20,000 16,700 512 5,585 5,585 1,816
SWINE WASTE TO ENERGY RESOURCES	10 Years* 7 Years* 26 Years* 26 Years* 20 Years* 20 Years*	2016 20,000 - 512 -	2017 20,000 10,000 512 - - 1,816	2018 20,000 16,700 512 5,585 5,585 1,816 2,725
SWINE WASTE TO ENERGY RESOURCES	10 Years* 7 Years* 26 Years* 26 Years* 20 Years* 20 Years* 10 Years*	2016 20,000 - 512 - - 1,816 -	2017 20,000 10,000 512 - 1,816 25,000	2018 20,000 16,700 512 5,585 5,585 1,816 2,725 70,000
SWINE WASTE TO ENERGY RESOURCES	10 Years* 7 Years* 26 Years* 26 Years* 20 Years* 10 Years* 20 Years*	2016 20,000 - 512 -	2017 20,000 10,000 512 - - 1,816	2018 20,000 16,700 512 5,585 5,585 1,816 2,725
SWINE WASTE TO ENERGY RESOURCES	10 Years* 7 Years* 26 Years* 26 Years* 20 Years* 20 Years* 10 Years*	2016 20,000 - 512 - - 1,816 -	2017 20,000 10,000 512 - 1,816 25,000	2018 20,000 16,700 512 5,585 5,585 1,816 2,725 70,000
SWINE WASTE TO ENERGY RESOURCES	10 Years* 7 Years* 26 Years* 26 Years* 20 Years* 10 Years* 20 Years* Spot	2016 20,000 - 512 - 1,816 - 4,205	2017 20,000 10,000 512 - 1,816 25,000	2018 20,000 16,700 512 5,585 5,585 1,816 2,725 70,000
SWINE WASTE TO ENERGY RESOURCES Total 3rd party swine resources	10 Years* 7 Years* 26 Years* 26 Years* 20 Years* 10 Years* 20 Years* Spot	2016 20,000 - 512 - 1,816 - 4,205 376 26,909	2017 20,000 10,000 512 - 1,816 25,000 4,205 - 61,533	2018 20,000 16,700 512 5,585 5,585 1,816 2,725 70,000 4,205
SWINE WASTE TO ENERGY RESOURCES	10 Years* 7 Years* 26 Years* 26 Years* 20 Years* 10 Years* 20 Years* Spot Purchase*	2016 20,000 - 512 - 1,816 - 4,205 376 26,909 2016	2017 20,000 10,000 512 - 1,816 25,000 4,205 - 61,533	2018 20,000 16,700 512 5,585 5,585 1,816 2,725 70,000 4,205
SWINE WASTE TO ENERGY RESOURCES Total 3rd party swine resources	10 Years* 7 Years* 26 Years* 26 Years* 20 Years* 10 Years* 20 Years* Spot	2016 20,000 - 512 - 1,816 - 4,205 376 26,909	2017 20,000 10,000 512 - 1,816 25,000 4,205 - 61,533	2018 20,000 16,700 512 5,585 5,585 1,816 2,725 70,000 4,205

The state of the s	5 Years*	350	350	-
	5 Years*	16,320	16,320	3,160
"大大"。"是一个人会看着我的一个人。	5 Years*	1,800	1,800	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	15 Years*	5,000	5,000	
· · · · · · · · · · · · · · · · · · ·	15 Years*	3,800	3,800	_
The second of th	9 Years*	3,000	3,000	3,000
	0. 17 *	5.000	5.000	5 000
	9 Years*	5,000	5,000	5,000
[1] 10 10 10 10 10 10 10 10 10 10 10 10 10	9 Years*	5,000	5,000	5,000
TO THE SECRET SECTION OF THE SECTION OF T	5 Years*	4,000	4,000	-
	15 Years*	3,200	3,200	-
	5 Years*	4,500	4,500	-
	5 Years*	12,000	_	-
Topical Control of the Control of th	# * * * * * * * * * * * * * * * * * * *	2 000		
	5 Years*	3,000		
	5 Years*	9,000	_	_
The state of the s	3 Tears	2,000	20.	
	5 Years*	6,000	-	-
1994年1995年,1986年1994年1994年1994年1994年1994年1994年1994年199	5 Years*	9,000	9,000	-
12.1.1.19.14.19.14.14.14.14.15.15.14.14.15.15.14.14.15.15.14.14.15.15.14.14.15.15.14.14.15.15.14.14.15.15.14.1	5 Years*	6,000	6,000	-
	5 Years*	1,500	1,500	-
STORY OF THE STORY	5 Years*	400	400	-
The first of the second	5 Years*	4,000	4,000	-
Control of the Contro	15 Years*	1,500	1,500	_
	10 Years*	7,000	7,000	_
Total 3rd party hydroelectric resources		130,370	100,370	16,160
				• • • • •
WIND ELECTRIC RESOURCES	<u> </u>	2016	2017	2018
5-1-6	Spot Purchase*	750,000	250,000	_
Total 3rd party wind resources	1 urchase	750,000	250,000	
Intes:		/30,000	230,000	_

Notes:

[END CONFIDENTIAL]

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