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OFFICIAL COFT

February 10, 2011

Ms. Renné C. Vance, Chief Clerk North Carolina Utilities Commission 4325 Mail Service Center Raleigh, North Carolina 27699-4325

RE: Docket No. E-7, Sub 856

FILED
FEB 1 0 2011

Clerk's Office
N.C Utilities Commission

Dear Ms. Vance:

Enclosed for filing are the original and thirty (30) copies of Duke Energy Carolinas, LLC's 2010 Annual Cost Update in the above referenced docket.

We are filing 14 PUBLIC versions and 17 CONFIDENTIAL versions are being filed under seal.

Sincerely,

Robert W. Kaylor

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Encls.

cc: Parties of Record

Sub-Sub-Fact 3 Oct 3 Exp. 2 Elect 3

# DOCKET NO. E-7, SUB 856 OFFICIAL COPY DUKE ENERGY CAROLINAS, LLC'S 2010 ANNUAL COST UPDATE

As of January 31, 2011, Duke Energy Carolinas, LLC ("Duke Energy Carolinas" or "the Company") has completed phases I and III of the NC Solar PV DG program ("the Program"), approved in the North Carolina Utilities Commission's Order Granting Certificate of Public Convenience and Necessity With Conditions in the above-referenced docket, securing 16 commercial, 7 residential and 2 Company sites with an aggregate capacity of 9,942 kilowatt (kW) DC. Minor additional work still remains to be completed on Phase II of the Program. Phase I focused on identifying, constructing and installing a small number of larger systems (500-1,500 kW), with generally longer construction times. Phase II involved the acquisition and installation of small to mid-range systems (50-500 kW), with one larger system (2,200 kW) and an R&D site at Marshall Steam Station (1,025 kW). Phase III included the acquisition and installation of small residential systems (2.3 kW) with a total of 7 home sites built out (15.87 kW total). The Company had targeted October 31, 2010 as the completion date for Phases II and III, but a worldwide shortage of critical components, specifically inverters, resulted in a delay in the majority of kWs being commercial until December, 2010, with another 110 kW added by January, 2011. Promising advances in technology through Concentrated Photovoltaics ("CPV") and use of lighter materials may provide opportunities to add some additional capacity at the R&D site. Costs for invoices received after December 2010, remaining work to complete Phase II and additional capacity planned for the Marshall R&D site will be included in future filings.

#### Sites overview:

			kW Size	Est. PV Watts				
		In Service	(DC)	Annual Output (AC MWh)				
	Site	Date	` ′					
Phase I	National Gypsum	29-JAN-10	1,208	1,590				
	Childress Klein	31-JAN-10	532	700				
	Highwoods	01-APR-10	1,495	1,968				
	Food Lion	10-MAY-10	1,090	1,435				
	McAlpine	15-MAY-10	50	72				
Phase II	Carrier Centers	03-NOV-10	528	695				
	Lincoln Charter School	13-AUG-10	161	212				
	Gaston County Schools	07-MAY-10	71	93				
	City of Charlotte	19-AUG-10	113	148				
	EPA	13-APR-10	109	144				
	Freightliner	29-DEC-10	358	515				
	Siemens	15-NOV-10	52	74				
	Childress Klein	15-OCT-10	2,174	2,861				
	Liberty Hardware	01-SEP-10	309	407				
	Maple View Agricultural	01-SEP-10	180	259				
	Kimberly Clark	27-OCT-10	84	120				
	Thomas Built Buses	29-NOV-10	388	558				
	Marshall	29-DEC-10	915					
		27-JAN-11	110	1,613				
Phase III	Residential	31-DEC-10	16	21				
			9,942	13,485				

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#### DOCKET NO. E-7, SUB 856 DUKE ENERGY CAROLINAS, LLC'S 2018 ANNUAL COST UPDATE PUBLIC VERSION

Costs incurred in 2009 Highwoods Food Lion	Childrens Klein	Nation Gypsum	McAlpine	Total Costs															
Panels & Equipment 175 17676 17676	137	2020	10.00	, e															
Installation Costs		100			ľ														
Total Total				100,120,00															
Costs incurred in 2010				EPA	Gaston C. Sch.	Lincola CS	Carrier Center	City of CLT	Seemens	Liberty HW	CK #	Maple Vi	rw Kiraba	rly Clark !	Freightline	TBB	Marshall	Residential	Total Costs
Panels & Equipment		<u> </u>							1 2 2		10.00								23.45 ×
Installation Costs	1, 41' a	2 Heres			2.5	47		- Ot			180 (4.2)						. ZZ <		37-136-64
Total Procession Convenien	Elivin.	et 5	1850 115 K			A 449 m		124.260°F	L. Branden	15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Compared to		9 1	e two ill	0.87		27% BCV	-21	\$600 Co. 1500

Costs do not include AFUDC

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### **CERTIFICATE OF SERVICE**

I certify that a copy of Duke Energy Carolinas, LLC's 2010 Annual Cost Update in Docket No. E-7, Sub 819 has been served by electronic mail (e-mail), hand delivery or by depositing a copy in the United States Mail, first class postage prepaid, properly addressed to parties of record.

This the 10<sup>th</sup> day of February, 2011.

Robert W. Kaylor

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