

STATE OF SOUTH CAROLINA)

(Caption of Case))

IN RE:)

Duke Energy Carolinas, LLC Integrated Resource
Plans from 2005 to Present)

BEFORE THE
PUBLIC SERVICE COMMISSION
OF SOUTH CAROLINA

COVER SHEET

DOCKET

NUMBER: 2005 - 356 - E

(Please type or print)

Submitted by: Catherine E. Heigel

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Other: _____

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DOCKETING INFORMATION (Check all that apply)

Emergency Relief demanded in petition Request for item to be placed on Commission's Agenda expeditiously

Other: _____

INDUSTRY (Check one)	NATURE OF ACTION (Check all that apply)		
<input checked="" type="checkbox"/> Electric	<input type="checkbox"/> Affidavit	<input type="checkbox"/> Letter	<input type="checkbox"/> Request
<input type="checkbox"/> Electric/Gas	<input type="checkbox"/> Agreement	<input type="checkbox"/> Memorandum	<input type="checkbox"/> Request for Certificatio
<input type="checkbox"/> Electric/Telecommunications	<input type="checkbox"/> Answer	<input type="checkbox"/> Motion	<input type="checkbox"/> Request for Investigator
<input type="checkbox"/> Electric/Water	<input type="checkbox"/> Appellate Review	<input type="checkbox"/> Objection	<input type="checkbox"/> Resale Agreement
<input type="checkbox"/> Electric/Water/Telecom.	<input type="checkbox"/> Application	<input type="checkbox"/> Petition	<input type="checkbox"/> Resale Amendment
<input type="checkbox"/> Electric/Water/Sewer	<input type="checkbox"/> Brief	<input type="checkbox"/> Petition for Reconsideration	<input type="checkbox"/> Reservation Letter
<input type="checkbox"/> Gas	<input type="checkbox"/> Certificate	<input type="checkbox"/> Petition for Rulemaking	<input type="checkbox"/> Response
<input type="checkbox"/> Railroad	<input type="checkbox"/> Comments	<input type="checkbox"/> Petition for Rule to Show Cause	<input type="checkbox"/> Response to Discovery
<input type="checkbox"/> Sewer	<input type="checkbox"/> Complaint	<input type="checkbox"/> Petition to Intervene	<input type="checkbox"/> Return to Petition
<input type="checkbox"/> Telecommunications	<input type="checkbox"/> Consent Order	<input type="checkbox"/> Petition to Intervene Out of Time	<input type="checkbox"/> Stipulation
<input type="checkbox"/> Transportation	<input type="checkbox"/> Discovery	<input type="checkbox"/> Prefiled Testimony	<input type="checkbox"/> Subpoena
<input type="checkbox"/> Water	<input type="checkbox"/> Exhibit	<input type="checkbox"/> Promotion	<input type="checkbox"/> Tariff
<input type="checkbox"/> Water/Sewer	<input type="checkbox"/> Expedited Consideration	<input type="checkbox"/> Proposed Order	<input checked="" type="checkbox"/> Other:
<input type="checkbox"/> Administrative Matter	<input type="checkbox"/> Interconnection Agreement	<input type="checkbox"/> Protest	
<input type="checkbox"/> Other:	<input type="checkbox"/> Interconnection Amendment	<input type="checkbox"/> Publisher's Affidavit	
	<input type="checkbox"/> Late-Filed Exhibit	<input type="checkbox"/> Report	

BEFORE
THE PUBLIC SERVICE COMMISSION
OF SOUTH CAROLINA
Docket No. 2005-356-E

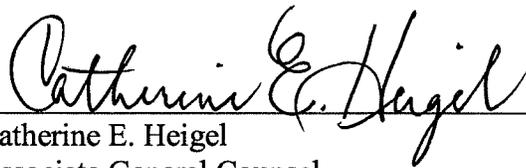
IN RE:)	
)	
Duke Energy Carolinas, LLC Integrated)	
Resource Plans from 2005 to Present)	DUKE ENERGY CAROLINAS'
)	REVISIONS TO ITS 2008 IRP
)	
)	
)	
)	
)	

Duke Energy Carolinas has revised and submits herewith eleven pages of its 2008 Integrated Resource Plan (“IRP”), which originally was filed with the Public Service Commission of South Carolina (the “Commission”) on November 3, 2008. The revisions reflect removal of the load associated with the City of Orangeburg from the load forecast the Company used as the basis for its planning for the 2008 IRP. The following pages of the 2008 IRP were updated to reflect the removal of the City of Orangeburg wholesale load, in compliance with the North Carolina Utilities Commission’s March 30, 2009 *Order on Advance Notice and Joint Petition for Declaratory Ruling* (“Order”) in Docket No. E-7, Sub 858:

1. Page 31 – Removal of the reference to Orangeburg as a wholesale customer
2. Page 33 – Removal of the reference to Orangeburg as a wholesale customer
3. Page 36 – Removal of the reference to Orangeburg as a wholesale customer

4. Page 38 – Revision to Table 3.2 - Load Forecast without Energy Efficiency Table
5. Page 41 – Revision to Table 3.3 - Load Forecast with Energy Efficiency Table
6. Page 48 – Revision to the text referencing the resource need as well as Chart 3.1 – Load and Resource Balance
7. Page 49 – Revision to the Cumulative Resource Additions To Meet A 17 percent Planning Reserve Margin Table
8. Page 60 – Revision to the Lower Carbon - Summer Load Capacity Reserve Table to reflect lower load forecast
9. Page 61 – Revision to the Lower Carbon - Winter Load Capacity Reserve Table to reflect lower load forecast
10. Page 65 – Revision to the Higher Carbon - Summer Load Capacity Reserve Table to reflect lower load forecast, and
11. Page 66 – Revision to the Higher Carbon - Winter Load Capacity Reserve Table to reflect lower load forecast.

Respectfully submitted, this the 15th day of May 2009.



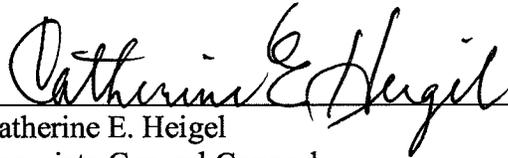
Catherine E. Heigel
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CERTIFICATE OF SERVICE

I certify that a copy of Duke Energy Carolinas, LLC's Revision to its 2008 IRP in Response to the North Carolina Utilities Commission's Order on Advance Notice and Joint Petition for Declaratory Ruling in Docket No. 2005-356-E has been served by depositing a copy in the United States Mail, first class postage prepaid, properly addressed to:

Jeffrey M. Nelson, Counsel
Office of Regulatory Staff
1401 Main Street, Suite 900
Columbia, SC, 29201

This the 15th day of May 2009.



Catherine E. Heigel
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- Hourly Pricing for Incremental Load

On September 1, 2006, firm wholesale agreements became effective between Duke Energy Carolinas and three entities, Blue Ridge Electric Membership Cooperative, Piedmont Electric Membership Cooperative, and Rutherford Electric Membership Cooperative. These contracts added approximately 48 MW of demand response capability to Duke Energy Carolinas⁵.

Energy Efficiency Programs

These programs are typically non-dispatchable, conservation-oriented education or incentive programs. Energy and capacity savings are achieved by changing customer behavior or through the installation of more energy-efficient equipment or structures. All effects of these existing programs are reflected in the customer load forecast. Duke Energy Carolinas' existing conservation programs include:

- Residential Energy Star® rates for new construction
- Existing Residential Housing Program
- Special Needs Energy Products Loan Program
- Energy Efficiency Kits for Residential Customers
- Energy Efficiency Video for Residential Customers
- Large Business Customer Energy Efficiency Assessments
- Large Business Customer Energy Efficiency Tools

A description of each current program can be found in Appendix D.

The Company has filed for approval in both North Carolina and South Carolina of a new approach to EE and DSM programs which will significantly expand the EE and DSM program offerings to customers. The Company's proposals could significantly increase the level of EE and DSM program contributions to Duke Energy Carolinas' supply portfolio. A more detailed discussion of the Company's proposal is contained in Section IV, Resource Alternatives to Meet Future Energy Needs, and in Appendix I.

Wholesale Power Sales Commitments

Duke Energy Carolinas currently provides full requirements wholesale power sales to Western Carolina University (WCU), the city of Highlands, and to customers served under Rate Schedule 10A. The Company is also committed to serve the supplemental power needs of three cooperatives that are also co-owners with Duke Energy Carolinas of the Catawba Nuclear Station. These customers' load requirements are included in the Duke Energy Carolinas load obligation (see Chart 3.1 and Cumulative Resource Additions to Meet a 17 Percent Planning Reserve Margin).

⁵ Those demand-response impacts are already included in the forecast of loads for these customers, so no additional demand response capability was modeled in the analysis for this IRP.

WHOLESALE SALES CONTRACTS

Wholesale Customer	Contract Designation	Type	Contract Term	Commitment (MW)																			
				2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Schedule 10A - Note 1 City of Concord, NC Town of Dallas, NC Town of Forest City, NC Town of Kings Mountain, NC Lockhart Power Company Town of Due West, SC Town of Prosperity, SC	Full Requirements	Native Load Priority	December 31, 2008 with annual renewals. Can be terminated on one year notice by either party after current contract term.	271	271	272	273	273	274	274	275	275	276	277	277	278	278	279	280	280	281	281	282
NP&L Wholesale Western Carolina University Town of Highlands, NC	Full Requirements	Native Load Priority	Annual renewals. Can be terminated on one years notice by either party.	17	18	18	19	20	20	21	22	22	23	24	25	25	26	26	27	27	28	28	29
Blue Ridge EMC See Note 1	Full Requirements	Native Load Priority	December 31, 2021	196	201	206	210	214	217	220	225	230	235	238	242	245	249	253	256	260	264	268	272
Piedmont EMC See Note 1	Full Requirements	Native Load Priority	December 31, 2021	102	103	105	106	107	108	109	111	112	114	115	117	119	121	123	124	126	128	130	132
Rutherford EMC See Note 1	Partial Requirements	Native Load Priority	December 31, 2021	59	58	58	162	164	193	194	207	211	215	218	221	225	228	231	235	238	242	246	249
NCEMC See Note 2	Catawba Contract Backstand	Native Load Priority/System Firm	Through Operating Life of Catawba Nuclear Station and McGuire Nuclear Station	627	687	687	687	687	687	687	687	687	687	687	687	687	687	687	687	687	687	687	687
Saluda River EC See Note 2	Catawba Contract Backstand	Native Load Priority	September 30, 2008	209																			
NCMPA1	Generation Backstand	Native Load Priority	January 1, 2008 through December 31, 2010	73	73	73																	
NCEMC	Shaped Capacity Sale	Native Load Priority	January 1, 2009 through December 31, 2038		72	72	97	97	97	97	97	122	122	122	122	147	147	147	147	147	147	147	147

Note 1: The analyses in this Annual Plan assumed that the contracts would be renewed or extended through the end of the planning horizon.

Note 2: The annual commitment shown is the ownership share of Catawba Nuclear Station and is included in the load forecast. Equivalent capacity is included as a portion of the Catawba Nuclear Station resource.

III. RESOURCE NEEDS ASSESSMENT (FUTURE STATE)

To meet the future needs of Duke Energy Carolinas' customers, it is necessary to understand the load and resource balance. For each year of the planning horizon, Duke Energy Carolinas develops a load forecast of energy sales and peak demand. To determine total resources needed, the Company considers the load obligation plus a 17 percent target planning reserve margin (see Reserve Margin discussion below). The capability of existing resources, including generating units, energy efficiency and demand-side management programs, and purchased power contracts, is measured against the total resource need. Any deficit in future years will be met by a mix of additional resources that reliably and cost-effectively meets the load obligation.

The following sections provide detail on the load forecast and the changes to existing resources.

Load Forecast

The Spring 2008 Forecast includes projections of the energy needs of new and existing customers in Duke Energy Carolinas service territory. Certain wholesale customers have the option of obtaining all or a portion of their future energy needs from other suppliers. While this may reduce Duke Energy Carolinas obligation to serve those customers, Duke Energy Carolinas assumes for planning purposes that certain of its existing wholesale customer load (excluding Catawba owner loads as discussed below) will remain part of the load obligation.

The forecasts for 2008 through 2028 include the energy needs of the wholesale and retail customer classes as follows:

- Duke Energy Carolinas retail, including the retail load associated with Nantahala Power and Light (NP&L) area
- Duke Energy Carolinas wholesale customers under Schedule 10A
- NP&L area wholesale customers Western Carolina University and the Town of Highlands
- NCEMC load relating to ownership of Catawba
- Load equating to the portion of Catawba ownership related to the Saluda River Electric Cooperative Inc. (SR) until October 1, 2008
- Blue Ridge, Piedmont and Rutherford Electric Membership Cooperatives' supplemental load requirements starting in 2006
- Hourly electricity sale to NCEMC beginning in January 2009
- Undesignated wholesale load of approximately 300 MWs in 2011 and 600 MWs in 2012 in recognition of potential wholesale load sales.

Notes (b), (d) and (e) of Table 3.2 give additional detail on how the four Catawba Joint Owners were considered in the forecasts.

residential customers per year was added to the Duke Energy Carolinas service area.

Duke Energy Carolinas' total retail load growth over the planning horizon is driven by the expected growth in Residential and General Service classes. Sales to the Industrial Textile class are expected to decline, but not as much as in the last five years. The Industrial Non-Textile class is expected to show positive growth, particularly in the Automobile, Rubber & Plastics and Chemicals (excluding Man-Made Fibers). (Additional details on the current forecast can be found in the Duke Energy Carolinas Spring 2008 Forecast in Appendix B.)

A tabulation of the utility's forecasts for a 20- year period, including peak loads for summer and winter seasons of each year, annual energy forecasts and load duration curves is shown below. The load forecast for the 2008 IRP which does not include new EE programs is shown below (followed by the load duration curves for 2008, 2013, 2018 and 2023):

Table 3.2
Load Forecast without Energy Efficiency

YEAR^{a,b,c,d,e}	SUMMER (MW)^f	WINTER (MW)^f	TERRITORIAL ENERGY (GWH)^f
2009	18,208	16,242	94,537
2010	18,535	16,485	95,710
2011	19,188	17,037	98,616
2012	19,654	17,454	100,608
2013	19,816	17,585	101,098
2014	19,991	17,713	101,547
2015	20,266	17,886	102,636
2016	20,561	18,110	103,964
2017	20,844	18,335	105,194
2018	21,124	18,541	106,180
2019	21,410	18,752	107,527
2020	21,734	18,991	109,071
2021	22,048	19,204	110,936
2022	22,346	19,437	112,832
2023	22,659	19,673	114,776
2024	22,983	19,924	116,893
2025	23,317	20,198	119,067
2026	23,648	20,429	121,236
2027	23,988	20,683	123,418
2028	24,286	20,937	125,607

The load forecast for the 2008 IRP which includes the Wholesale Strategy and also includes new energy efficiency programs, as reflected in Section 4, is shown below (followed by the load duration curves for 2008, 2013, 2018 and 2023):

Table 3.3
Load Forecast with Energy Efficiency

YEAR^{a,b,c,d,e}	SUMMER (MW)^f	WINTER (MW)^f	TERRITORIAL ENERGY (GWH)^f
2009	18,170	16,237	94,440
2010	18,429	16,414	95,422
2011	19,018	16,895	98,143
2012	19,423	17,255	99,951
2013	19,521	17,323	100,258
2014	19,627	17,385	100,516
2015	19,839	17,488	101,421
2016	20,131	17,654	102,563
2017	20,491	17,818	103,612
2018	20,702	17,957	104,407
2019	20,761	18,098	105,569
2020	21,000	18,280	106,925
2021	21,693	18,434	108,708
2022	21,972	18,668	110,604
2023	22,295	18,904	112,549
2024	22,235	19,155	114,660
2025	22,545	19,431	116,840
2026	22,876	19,660	119,009
2027	23,631	19,913	121,192
2028	23,935	20,168	123,373

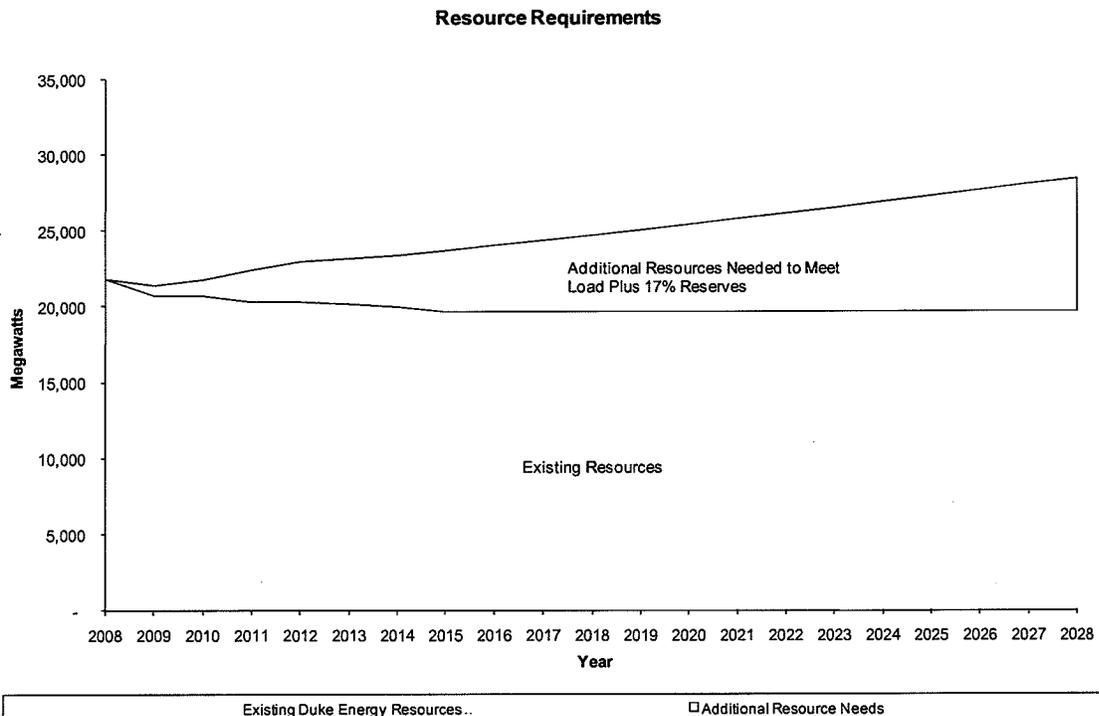
Duke Energy Carolinas uses adjusted system capacity⁷, along with Interruptible DSM capability to satisfy Duke Energy Carolinas' NERC Reliability Standards requirements for operating and contingency reserves. Contingencies include events such as higher than expected unavailability of generating units, increased customer load due to extreme weather conditions, and loss of generating capacity because of extreme weather conditions such as the severe drought conditions in 2007.

Load and Resource Balance

The following chart shows the existing resources and resource requirements to meet the load obligation, plus the 17 percent target planning reserve margin. Beginning in 2008, existing resources, consisting of existing generation and purchased power to meet load requirements, total 21,870 MW. The load obligation plus the target planning reserve margin is 21,073 MW, indicating sufficient resources to meet Duke Energy Carolinas' obligation. The need for additional capacity grows over time due to load growth, unit capacity adjustments, unit retirements, existing DSM program reductions, and expirations of purchased-power contracts. The need grows to approximately 5,070 MW by 2018 and to 8,800 MW by 2028.

Chart 3.1

Load and Resource Balance



⁷ Adjusted system capacity is calculated by adding the expected capacity of each generating unit plus firm purchased power capacity.

Cumulative Resource Additions To Meet A 17 Percent Planning Reserve Margin

<u>Year</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
Resource Need	0	679	1,077	2,145	2,693	3,021	3,429	4,067	4,415	4,742	5,070
<u>Year</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>	<u>2022</u>	<u>2023</u>	<u>2024</u>	<u>2025</u>	<u>2026</u>	<u>2027</u>	<u>2028</u>	
Resource Need	5,410	5,790	6,170	6,510	6,880	7,270	7,660	8,050	8,450	8,800	

**Summer Projections of Load, Capacity, and Reserves
for Duke Power and Nantahala Power and Light
2008 Annual Plan Lower Carbon Case**

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Forecast																				
1 Duke System Peak	18,209	18,537	19,190	19,656	19,818	19,993	20,268	20,563	20,847	21,130	21,418	21,744	22,064	22,362	22,677	23,004	23,340	23,673	24,016	24,315
New EE Programs	39	109	174	236	301	371	436	498	563	633	698	760	787	787	787	787	787	787	787	787
2 Duke System Peak Less Projected EE	18,170	18,428	19,016	19,420	19,517	19,622	19,832	20,066	20,284	20,496	20,720	20,984	21,277	21,575	21,890	22,217	22,553	22,886	23,229	23,528
Cumulative System Capacity																				
3 Generating Capacity	20,043	20,068	20,053	20,439	21,781	21,777	21,581	21,095	20,962	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829
4 Capacity Additions	36	9	424	1,749	138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Capacity Derates	(11)	(23)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Capacity Retirements	0	0	(38)	(407)	(142)	(196)	(486)	(133)	(133)	0	0	0	0	0	0	0	0	0	0	0
7 Cumulative Generating Capacity	20,068	20,053	20,439	21,781	21,777	21,581	21,095	20,962	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829
8 Cumulative Purchase Contracts	690	690	239	239	94	94	72	72	72	72	72	72	72	72	72	72	72	72	72	72
9 Cumulative Sales Contracts	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Cumulative Future Resource Additions																				
Base Load	0	0	0	0	0	0	0	0	0	1,117	1,117	1,117	1,117	1,117	1,117	1,117	1,117	1,117	1,117	1,117
Peaking/Intermediate	0	0	600	0	0	632	1,264	1,896	1,896	1,896	1,896	1,896	1,896	1,896	2,528	2,528	3,160	3,792	3,792	3,992
Renewables	0	0	17	113	113	113	161	161	208	300	387	481	577	582	582	628	631	631	684	684
11 Cumulative Production Capacity	20,758	20,743	21,295	22,133	21,984	22,420	22,592	23,091	23,005	24,214	24,301	24,395	24,491	24,496	25,128	25,174	25,809	26,441	26,494	26,694
Reserves w/o DSM																				
12 Generating Reserves	2,587	2,315	2,279	2,713	2,467	2,799	2,760	3,026	2,722	3,718	3,581	3,411	3,214	2,921	3,238	2,957	3,256	3,555	3,265	3,166
13 % Reserve Margin	14.2%	12.6%	12.0%	14.0%	12.6%	14.3%	13.9%	15.1%	13.4%	18.1%	17.3%	16.3%	15.1%	13.5%	14.8%	13.3%	14.4%	15.5%	14.1%	13.5%
14 % Capacity Margin	12.5%	11.2%	10.7%	12.3%	11.2%	12.5%	12.2%	13.1%	11.8%	15.4%	14.7%	14.0%	13.1%	11.9%	12.9%	11.7%	12.6%	13.4%	12.3%	11.9%
DSM																				
15 Cumulative DSM Capacity	761	898	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016
New DSM Program Projection	761	898	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016
16 Cumulative Equivalent Capacity	21,519	21,641	22,311	23,149	23,000	23,436	23,608	24,107	24,021	25,230	25,316	25,410	25,507	25,512	26,144	26,190	26,825	27,457	27,510	27,710
Reserves w/DSM																				
17 Equivalent Reserves	3,348	3,213	3,295	3,729	3,482	3,814	3,776	4,041	3,737	4,733	4,597	4,427	4,230	3,937	4,254	3,973	4,272	4,571	4,281	4,182
18 % Reserve Margin	18.4%	17.4%	17.3%	19.2%	17.8%	19.4%	19.0%	20.1%	18.4%	23.1%	22.2%	21.1%	19.9%	18.2%	19.4%	17.9%	18.9%	20.0%	18.4%	17.8%
19 % Capacity Margin	15.6%	14.8%	14.8%	16.1%	15.1%	16.3%	16.0%	16.8%	15.6%	18.8%	18.2%	17.4%	16.6%	15.4%	16.3%	15.2%	15.9%	16.6%	15.6%	15.1%
Firm Wholesale Sales																				
Catawba Owner Load Following Agreement	23	23																		
Catawba Owner Backstand	73	73																		
20 Equivalent Reserves	3252	3117	3295	3729	3482	3814	3776	4041	3737	4733	4597	4427	4230	3937	4254	3973	4272	4571	4281	4182
21 % Reserve Margin	17.9%	16.9%	17.3%	19.2%	17.8%	19.4%	19.0%	20.1%	18.4%	23.1%	22.2%	21.1%	19.9%	18.2%	19.4%	17.9%	18.9%	20.0%	18.4%	17.8%
22 % Capacity Margin	15.1%	14.4%	14.768%	16.1%	15.1%	16.3%	16.0%	16.8%	15.6%	18.8%	18.2%	17.4%	16.6%	15.4%	16.3%	15.2%	15.9%	16.6%	15.6%	15.1%

**Winter Projections of Load, Capacity, and Reserves
for Duke Power and Nantahala Power and Light
2008 Annual Plan Lower Carbon Case**

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28
Forecast																				
1 Duke System Peak	16,243	16,486	17,037	17,454	17,585	17,713	17,887	18,111	18,335	18,543	18,756	18,997	19,213	19,449	19,686	19,939	20,214	20,449	20,705	20,962
New EE Programs	5	72	142	200	262	328	399	457	519	585	656	714	771	771	771	771	771	771	771	771
2 Duke System Peak Less Projected EE	16,238	16,415	16,895	17,254	17,323	17,385	17,488	17,654	17,816	17,958	18,100	18,283	18,442	18,678	18,915	19,168	19,443	19,678	19,934	20,191
Cumulative System Capacity																				
3 Generating Capacity	20,766	20,766	20,780	21,055	21,641	22,505	22,501	22,305	21,819	21,686	21,553	21,553	21,553	21,553	21,553	21,553	21,553	21,553	21,553	21,553
4 Capacity Additions	0	36	325	728	1,129	138	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Capacity Derates	0	(22)	(12)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Capacity Retirements	0	0	(38)	(142)	(265)	(142)	(196)	(486)	(133)	(133)	0	0	0	0	0	0	0	0	0	0
7 Cumulative Generating Capacity	20,766	20,780	21,055	21,641	22,505	22,501	22,305	21,819	21,686	21,553	21,553	21,553	21,553	21,553	21,553	21,553	21,553	21,553	21,553	21,553
8 Cumulative Purchase Contracts	794	794	246	246	94	94	72	72	72	72	72	72	72	72	72	72	72	72	72	72
9 Cumulative Sales Contracts	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Cumulative Future Resource Additions																				
Base Load	0	0	0	0	0	0	0	0	0	0	1,117	1,117	1,117	1,117	1,117	1,117	1,117	1,117	1,117	1,117
Peaking/Intermediate	0	0	0	0	0	0	632	1,264	1,896	1,896	1,896	1,896	1,896	1,896	1,896	2,528	2,528	3,160	3,792	3,792
Renewables	0	0	17	17	113	113	113	161	161	208	300	387	481	577	582	582	628	631	631	684
11 Cumulative Production Capacity	21,560	21,574	21,318	21,904	22,712	22,708	23,122	23,316	23,815	23,729	24,937	25,024	25,118	25,215	25,220	25,852	25,898	26,533	27,165	27,218
Reserves w/o DSM																				
12 Generating Reserves	5,322	5,159	4,423	4,649	5,389	5,323	5,634	5,661	5,999	5,771	6,837	6,741	6,676	6,536	6,304	6,683	6,454	6,854	7,230	7,026
13 % Reserve Margin	32.8%	31.4%	26.2%	26.9%	31.1%	30.6%	32.2%	32.1%	33.7%	32.1%	37.8%	36.9%	36.2%	35.0%	33.3%	34.9%	33.2%	34.8%	36.3%	34.8%
14 % Capacity Margin	24.7%	23.9%	20.7%	21.2%	23.7%	23.4%	24.4%	24.3%	25.2%	24.3%	27.4%	26.9%	26.6%	25.9%	25.0%	25.9%	24.9%	25.8%	26.6%	25.8%
DSM																				
15 Cumulative DSM Capacity	490	620	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732
New DSM Program Projection	490	620	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732
16 Cumulative Equivalent Capacity	22,050	22,194	22,049	22,635	23,443	23,439	23,853	24,047	24,546	24,460	25,669	25,756	25,850	25,946	25,951	26,583	26,630	27,265	27,897	27,950
Reserves w/DSM																				
17 Equivalent Reserves	5,812	5,779	5,155	5,381	6,121	6,055	6,366	6,393	6,731	6,503	7,569	7,473	7,408	7,268	7,036	7,415	7,186	7,586	7,962	7,758
18 % Reserve Margin	35.8%	35.2%	30.5%	31.2%	35.3%	34.8%	36.4%	36.2%	37.8%	36.2%	41.8%	40.9%	40.2%	38.9%	37.2%	38.7%	37.0%	38.6%	39.9%	38.4%
19 % Capacity Margin	26.4%	26.0%	23.4%	23.8%	26.1%	25.8%	26.7%	26.6%	27.4%	26.6%	29.5%	29.0%	28.7%	28.0%	27.1%	27.9%	27.0%	27.8%	28.5%	27.8%
Firm Wholesale Sales																				
Catawba Owner Load Following Agreement	23	23																		
Catawba Owner Backstand	73	73																		
20 Equivalent Reserves	5716	5683	5155	5381	6121	6055	6366	6393	6731	6503	7569	7473	7408	7268	7036	7415	7186	7586	7962	7758
21 % Reserve Margin	35.2%	34.6%	30.5%	31.2%	35.3%	34.8%	36.4%	36.2%	37.8%	36.2%	41.8%	40.9%	40.2%	38.9%	37.2%	38.7%	37.0%	38.6%	39.9%	38.4%
22 % Capacity Margin	25.9%	25.6%	23.4%	23.8%	26.1%	25.8%	26.7%	26.6%	27.4%	26.6%	29.5%	29.0%	28.7%	28.0%	27.1%	27.9%	27.0%	27.8%	28.5%	27.8%

**Summer Projections of Load, Capacity, and Reserves
for Duke Power and Nantahala Power and Light
2008 Annual Plan Higher Carbon Case**

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Forecast																				
1 Duke System Peak	18,209	18,537	19,190	19,656	19,418	19,387	19,443	19,560	19,663	19,760	19,857	19,984	20,157	20,307	20,468	20,637	20,811	20,912	21,017	21,079
New EE Programs	39	109	174	236	301	371	436	498	563	633	698	760	787	787	787	787	787	787	787	787
2 Duke System Peak Less Projected EE	18,170	18,428	19,016	19,420	19,117	19,016	19,007	19,063	19,100	19,126	19,159	19,224	19,370	19,520	19,681	19,850	20,024	20,125	20,230	20,292
Cumulative System Capacity																				
3 Generating Capacity	20,043	20,068	20,053	20,439	21,781	21,777	21,581	21,095	20,962	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829
4 Capacity Additions	36	9	424	1,749	138	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Capacity Derates	(11)	(23)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Capacity Retirements	0	0	(38)	(407)	(142)	(196)	(486)	(133)	(133)	0	0	0	0	0	0	0	0	0	0	0
7 Cumulative Generating Capacity	20,068	20,053	20,439	21,781	21,777	21,581	21,095	20,962	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829	20,829
8 Cumulative Purchase Contracts	690	690	239	239	94	94	72	72	72	72	72	72	72	72	72	72	72	72	72	72
9 Cumulative Sales Contracts	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Cumulative Future Resource Additions																				
Base Load	0	0	0	0	0	0	0	0	0	1,117	1,117	1,117	1,117	1,117	1,117	1,117	1,117	1,117	1,117	1,117
Peaking/Intermediate	0	0	600	0	0	0	0	632	632	0	0	0	0	0	0	0	0	0	0	200
Renewables	0	0	17	113	113	113	161	161	208	300	387	481	577	582	582	628	631	631	684	684
11 Cumulative Production Capacity	20,758	20,743	21,295	22,133	21,984	21,788	21,328	21,827	21,741	22,318	22,405	22,499	22,595	22,600	22,600	22,646	22,649	22,649	22,902	22,902
Reserves w/o DSM																				
12 Generating Reserves	2,587	2,315	2,279	2,713	2,867	2,773	2,321	2,765	2,642	3,192	3,246	3,275	3,225	3,080	2,919	2,796	2,625	2,524	2,672	2,610
13 % Reserve Margin	14.2%	12.6%	12.0%	14.0%	15.0%	14.6%	12.2%	14.5%	13.8%	16.7%	16.9%	17.0%	16.7%	15.8%	14.8%	14.1%	13.1%	12.5%	13.2%	12.9%
14 % Capacity Margin	12.5%	11.2%	10.7%	12.3%	13.0%	12.7%	10.9%	12.7%	12.2%	14.3%	14.5%	14.6%	14.3%	13.6%	12.9%	12.3%	11.6%	11.1%	11.7%	11.4%
DSM																				
15 Cumulative DSM Capacity	761	898	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016
New DSM Program Projection	761	898	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016	1,016
16 Cumulative Equivalent Capacity	21,519	21,641	22,311	23,149	23,000	22,804	22,344	22,843	22,757	23,334	23,420	23,514	23,611	23,616	23,616	23,662	23,665	23,665	23,918	23,918
Reserves w/DSM																				
17 Equivalent Reserves	3,348	3,213	3,295	3,729	3,882	3,788	3,337	3,780	3,657	4,207	4,262	4,291	4,241	4,096	3,935	3,812	3,641	3,540	3,688	3,626
18 % Reserve Margin	18.4%	17.4%	17.3%	19.2%	20.3%	19.9%	17.6%	19.8%	19.1%	22.0%	22.2%	22.3%	21.9%	21.0%	20.0%	19.2%	18.2%	17.6%	18.2%	17.9%
19 % Capacity Margin	15.6%	14.8%	14.8%	16.1%	16.9%	16.6%	14.9%	16.5%	16.1%	18.0%	18.2%	18.2%	18.0%	17.3%	16.7%	16.1%	15.4%	15.0%	15.4%	15.2%
Firm Wholesale Sales																				
Catawba Owner Load Following Agreement	23	23																		
Catawba Owner Backstand	73	73																		
20 Equivalent Reserves	3252	3117	3295	3729	3882	3788	3337	3780	3657	4207	4262	4291	4241	4096	3935	3812	3641	3540	3688	3626
21 % Reserve Margin	17.9%	16.9%	17.3%	19.2%	20.3%	19.9%	17.6%	19.8%	19.1%	22.0%	22.2%	22.3%	21.9%	21.0%	20.0%	19.2%	18.2%	17.6%	18.2%	17.9%
22 % Capacity Margin	15.1%	14.4%	14.8%	16.1%	16.9%	16.6%	14.9%	16.5%	16.1%	18.0%	18.2%	18.2%	18.0%	17.3%	16.7%	16.1%	15.4%	15.0%	15.4%	15.2%

**Winter Projections of Load, Capacity, and Reserves
for Duke Power and Nantahala Power and Light
2008 Annual Plan Higher Carbon Case**

	08/09	09/10	10/11	11/12	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22	22/23	23/24	24/25	25/26	26/27	27/28
Forecast																				
1 Duke System Peak	16,243	16,486	17,037	17,454	17,230	17,176	17,159	17,228	17,294	17,341	17,389	17,460	17,553	17,662	17,769	17,888	18,023	18,064	18,120	18,172
New EE Programs	5	72	142	200	262	328	399	457	519	585	656	714	771	771	771	771	771	771	771	771
2 Duke System Peak Less Projected EE	16,238	16,415	16,895	17,254	16,968	16,848	16,760	16,771	16,775	16,756	16,733	16,746	16,782	16,891	16,998	17,117	17,252	17,293	17,349	17,401
Cumulative System Capacity																				
3 Generating Capacity	20,766	20,766	20,780	21,055	21,641	22,505	22,501	22,305	21,819	21,686	21,553	21,553	21,553	21,553	21,553	21,553	21,553	21,553	21,553	21,553
4 Capacity Additions	0	36	325	728	1,129	138	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5 Capacity Derates	0	(22)	(12)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6 Capacity Retirements	0	0	(38)	(142)	(265)	(142)	(196)	(486)	(133)	(133)	0	0	0	0	0	0	0	0	0	0
7 Cumulative Generating Capacity	20,766	20,780	21,055	21,641	22,505	22,501	22,305	21,819	21,686	21,553	21,553	21,553	21,553	21,553	21,553	21,553	21,553	21,553	21,553	21,553
8 Cumulative Purchase Contracts	794	794	246	246	94	94	72	72	72	72	72	72	72	72	72	72	72	72	72	72
9 Cumulative Sales Contracts	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10 Cumulative Future Resource Additions																				
Base Load	0	0	0	0	0	0	0	0	0	0	1,117	1,117	1,117	1,117	1,117	1,117	1,117	1,117	1,117	1,117
Peaking/Intermediate	0	0	0	0	0	0	0	0	632	632	0	0	0	0	0	0	0	0	0	200
Renewables	0	0	17	17	113	113	113	161	161	208	300	387	481	577	582	582	628	631	631	684
11 Cumulative Production Capacity	21,560	21,574	21,318	21,904	22,712	22,708	22,490	22,052	22,551	22,465	23,041	23,128	23,222	23,319	23,324	23,324	23,370	23,373	23,373	23,626
Reserves w/o DSM																				
12 Generating Reserves	5,322	5,159	4,423	4,649	5,744	5,860	5,730	5,280	5,776	5,709	6,308	6,382	6,440	6,427	6,325	6,206	6,117	6,079	6,023	6,224
13 % Reserve Margin	32.8%	31.4%	26.2%	26.9%	33.9%	34.8%	34.2%	31.5%	34.4%	34.1%	37.7%	38.1%	38.4%	38.1%	37.2%	36.3%	35.5%	35.2%	34.7%	35.8%
14 % Capacity Margin	24.7%	23.9%	20.7%	21.2%	25.3%	25.8%	25.5%	23.9%	25.6%	25.4%	27.4%	27.6%	27.7%	27.6%	27.1%	26.6%	26.2%	26.0%	25.8%	26.3%
DSM																				
15 Cumulative DSM Capacity	490	620	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732
New DSM Program Projection	490	620	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732	732
16 Cumulative Equivalent Capacity	22,050	22,194	22,049	22,635	23,443	23,439	23,221	22,783	23,282	23,196	23,773	23,860	23,954	24,050	24,055	24,055	24,102	24,105	24,105	24,358
Reserves w/DSM																				
17 Equivalent Reserves	5,812	5,779	5,155	5,381	6,476	6,592	6,462	6,012	6,508	6,441	7,040	7,114	7,172	7,159	7,057	6,938	6,849	6,811	6,755	6,956
18 % Reserve Margin	35.8%	35.2%	30.5%	31.2%	38.2%	39.1%	38.6%	35.8%	38.8%	38.4%	42.1%	42.5%	42.7%	42.4%	41.5%	40.5%	39.7%	39.4%	38.9%	40.0%
19 % Capacity Margin	26.4%	26.0%	23.4%	23.8%	27.6%	28.1%	27.8%	26.4%	28.0%	27.8%	29.6%	29.8%	29.9%	29.8%	29.3%	28.8%	28.4%	28.3%	28.0%	28.6%
Firm Wholesale Sales																				
Catawba Owner Load Following Agreement	23	23																		
Catawba Owner Backstand	73	73																		
20 Equivalent Reserves	5716	5683	5155	5381	6476	6592	6462	6012	6508	6441	7040	7114	7172	7159	7057	6938	6849	6811	6755	6956
21 % Reserve Margin	35.2%	34.6%	30.5%	31.2%	38.2%	39.1%	38.6%	35.8%	38.8%	38.4%	42.1%	42.5%	42.7%	42.4%	41.5%	40.5%	39.7%	39.4%	38.9%	40.0%
22 % Capacity Margin	25.9%	25.6%	23.4%	23.8%	27.6%	28.1%	27.8%	26.4%	28.0%	27.8%	29.6%	29.8%	29.9%	29.8%	29.3%	28.8%	28.4%	28.3%	28.0%	28.6%