

Table 1. 2006 Summary Statistics

Item	Value	U.S. Rank
North Carolina		
NERC Region(s).....		SERC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts)	27,061	12
Electric Utilities.....	24,553	5
Independent Power Producers & Combined Heat and Power.....	2,508	32
Net Generation (megawatthours).....	125,214,784	11
Electric Utilities.....	117,797,331	4
Independent Power Producers & Combined Heat and Power.....	7,417,453	33
Emissions (thousand metric tons)		
Sulfur Dioxide	447	7
Nitrogen Oxide.....	100	13
Carbon Dioxide.....	73,138	13
Sulfur Dioxide (lbs/MWh)	7.9	11
Nitrogen Oxide (lbs/MWh)	1.8	34
Carbon Dioxide (lbs/MWh).....	1,288	29
Total Retail Sales (megawatthours)	126,698,979	9
Full Service Provider Sales (megawatthours)	126,698,979	7
Direct Use (megawatthours)	2,350,399	15
Average Retail Price (cents/kWh).....	7.53	27

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capacity, 2006

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
North Carolina			
1. Roxboro	Coal	Progress Energy Carolinas Inc	2,437
2. Belews Creek.....	Coal	Duke Energy Carolinas, LLC	2,270
3. McGuire.....	Nuclear	Duke Energy Carolinas, LLC	2,200
4. Marshall.....	Coal	Duke Energy Carolinas, LLC	2,110
5. Brunswick	Nuclear	Progress Energy Carolinas Inc	1,875
6. Lincoln Combustion	Gas	Duke Energy Carolinas, LLC	1,267
7. Richmond.....	Gas	Progress Energy Carolinas Inc	1,231
8. G G Allen.....	Coal	Duke Energy Carolinas, LLC	1,145
9. Rowan.....	Gas	Southern Power Co	977
10. Harris	Nuclear	Progress Energy Carolinas Inc	900

See footnotes at end of tables.

Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2006
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Duke Energy Carolinas, LLC	Investor-Owned	54,918,715	19,639,855	20,813,639	14,465,190	31
2. Progress Energy Carolinas Inc	Investor-Owned	36,225,024	14,064,992	12,926,194	9,233,838	-
3. Virginia Electric & Power Co	Investor-Owned	4,172,478	1,476,012	921,875	1,774,591	-
4. EnergyUnited Elec Member Corp	Cooperative	2,138,747	1,460,960	526,166	151,621	-
5. Public Works Comm-City of Fayetteville	Public	2,023,641	889,160	827,599	306,882	-
Total Sales, Top Five Providers		99,478,605	37,530,979	36,015,473	25,932,122	31
Percent of Total State Sales		79	71	81	89	100

See footnotes at end of tables.

Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1990, 1995, and 2001 Through 2006
(Megawatts)

Energy Source	1990	1995	2001	2002	2003	2004	2005	2006	Percentage Share	
									1990	2006
North Carolina										
Electric Utilities.....	20,190	20,597	23,478	23,652	23,726	23,671	23,822	24,553	94.8	90.7
Coal.....	12,500	12,440	12,440	12,440	12,440	12,495	12,487	12,439	58.7	46.0
Petroleum.....	760 ^R	1,676 ^R	790	836	836	541	540	509	3.6	1.9
Natural Gas	270 ^R	314 ^R	3,931	4,010	4,010	4,035	4,200	4,975	1.3	18.4
Nuclear.....	4,698	4,639	4,731	4,731	4,783	4,938	4,938	4,975	22.1	18.4
Hydroelectric	1,894	1,528	1,490	1,538	1,562	1,567	1,562	1,571	8.9	5.8
Other Renewables.....	-	-	2	2	-	-	-	-	-	-
Pumped Storage.....	68	-	94	94	94	95	95	84	0.3	0.3
Independent Power Producers and Combined Heat and Power	1,110	1,798	2,598	3,023	3,537	3,438	3,284	2,508	5.2	9.3
Coal.....	614	965	882	828	828	731	709	674	2.9	2.5
Petroleum.....	6	36	49	50	54	53	53	53	*	0.2
Natural Gas	166	201	1,000	1,465	1,977	1,962	1,797	1,022	0.8	3.8
Hydroelectric	9	363	377	376	376	385	383	383	*	1.4
Other Renewables.....	277	196	253	266	264	270	305	338	1.3	1.3
Other	37	37	37	37	37	37	37	37	0.2	0.1
Total Electric Industry.....	21,300	22,394	26,076	26,674	27,263	27,110	27,107	27,061	100.0	100.0
Coal.....	13,114	13,405	13,322	13,268	13,268	13,226	13,196	13,113	61.6	48.5
Petroleum.....	766 ^R	1,712 ^R	839	887	891	595	594	563	3.6	2.1
Natural Gas	436 ^R	515 ^R	4,931	5,475	5,987	5,997	5,997	5,997	2.0	22.2
Nuclear.....	4,698	4,639	4,731	4,731	4,783	4,938	4,938	4,975	22.1	18.4
Hydroelectric	1,903	1,890	1,867	1,914	1,939	1,951	1,945	1,954	8.9	7.2
Other Renewables.....	277	196	255	268	264	270	305	338	1.3	1.3
Pumped Storage.....	68	-	94	94	94	95	95	84	0.3	0.3
Other	37	37	37	37	37	37	37	37	0.2	0.1

See footnotes at end of tables.

Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1990, 1995, and 2001 Through 2006
(Megawatthours)

Energy Source	1990	1995	2001	2002	2003	2004	2005	2006	Percentage Share	
									1990	2006
North Carolina										
Electric Utilities.....	79,845,217	96,109,819	109,807,278	115,597,653	118,433,112	118,328,694	121,674,733	117,797,331	94.0	94.1
Coal.....	46,631,040	55,698,342	68,775,284	71,223,313	70,630,278	71,956,852	74,915,235	72,311,023	54.9	57.7
Petroleum.....	186,899	234,263	412,765	376,170	459,947	250,402	231,141	219,114	0.2	0.2
Natural Gas.....	165,362	252,862	999,515	1,935,684	1,257,328	2,019,290	2,573,322	2,476,836	0.2	2.0
Nuclear.....	25,905,319	35,910,195	37,775,025	39,626,849	40,906,900	40,090,623	39,981,739	39,963,184	30.5	31.9
Hydroelectric.....	6,776,551	3,846,840	1,844,689	2,410,462	5,059,386	3,933,276	3,826,791	2,695,832	8.0	2.2
Pumped Storage.....	180,046	167,317	-	25,175	119,273	78,251	146,505	131,342	0.2	0.1
Independent Power Producers and Combined Heat and Power.....	5,080,550	10,184,837	7,688,572	8,870,376	9,149,208	8,001,262	8,073,845	7,417,453	6.0	5.9
Coal.....	3,190,555	5,786,656	4,182,483	3,964,428	4,145,953	3,590,713	3,535,917	3,206,618	3.8	2.6
Petroleum.....	141,126	245,355	242,979	215,856	323,748	329,825	253,938	212,005	0.2	0.2
Natural Gas.....	38,103	518,826	534,840	1,625,186	323,038	524,372	570,054 ^R	701,024	*	0.6
Other Gases.....	-	-	991	863	17	-	-	-	-	-
Hydroelectric.....	42,876	1,673,970	751,016	1,081,586	2,141,558	1,501,923	1,569,711	1,143,180	0.1	0.9
Other Renewables.....	1,464,484	1,700,900	1,751,290	1,786,255	1,975,716	1,772,471	1,838,369 ^R	1,834,902	1.7	1.5
Other.....	203,406	259,130	224,973	196,202	239,178	281,958	305,856	319,725	0.2	0.3
Total Electric Industry.....	84,925,767	106,294,656	117,495,850	124,468,029	127,582,320	126,329,956	129,748,578	125,214,784	100.0	100.0
Coal.....	49,821,595	61,484,998	72,957,767	75,187,741	74,776,231	75,547,565	78,451,152	75,517,641	58.7	60.3
Petroleum.....	328,025	479,618	655,744	592,026	783,695	580,227	485,079	431,119	0.4	0.3
Natural Gas.....	203,465	771,688	1,534,355	3,560,870	1,580,366	2,543,662	3,143,376 ^R	3,177,860	0.2	2.5
Other Gases.....	-	-	991	863	17	-	-	-	-	-
Nuclear.....	25,905,319	35,910,195	37,775,025	39,626,849	40,906,900	40,090,623	39,981,739	39,963,184	30.5	31.9
Hydroelectric.....	6,819,427	5,520,810	2,595,705	3,492,048	7,200,944	5,435,199	5,396,502	3,839,012	8.0	3.1
Other Renewables.....	1,464,484	1,700,900	1,751,290	1,786,255	1,975,716	1,772,471	1,838,369 ^R	1,834,902	1.7	1.5
Pumped Storage.....	180,046	167,317	-	25,175	119,273	78,251	146,505	131,342	0.2	0.1
Other.....	203,406	259,130	224,973	196,202	239,178	281,958	305,856	319,725	0.2	0.3

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1990, 1995, and 2001 Through 2006

Fuel, Quality	1990	1995	2001	2002	2003	2004	2005	2006
North Carolina								
Coal (cents per million Btu)	178	163	159	176	178	200	240	269
Average heat value (Btu per pound)	12,544	12,461	12,380	12,422	12,423	12,345	12,309	12,268
Average sulfur Content (percent)	0.96	0.86	0.86	0.85	0.87	0.86	0.88	0.91
Petroleum (cents per million Btu)	512	382	584	467	623	715	W	W
Average heat value (Btu per gallon)	138,229	138,148	145,952	144,098	140,848	141,338	142,869	139,114
Average sulfur Content (percent)	0.24	0.26	0.24	0.98	0.48	0.73	0.76	0.36
Natural Gas (cents per million Btu)	-	233	435	344	560	658	W	W
Average heat value (Btu per cubic foot)	-	1,033	1,020	1,012	1,032	1,036	1,037	1,035

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1990, 1995, and 2001 Through 2006
(Thousand Metric Tons)

Emission Type	1990	1995	2001	2002	2003	2004	2005	2006
North Carolina								
Sulfur Dioxide								
Coal.....	343	356	430	437	437	443	469	438
Petroleum.....	5	1	4	3	4	2	2	2
Natural Gas.....	*	*	*	*	*	*	*	*
Other.....	16	16	12	9	10	11	11	7
Total.....	364	373	445	450	450	456	482	447
Nitrogen Oxide								
Coal.....	197	212	144	144	129	113	103	97
Petroleum.....	1	1	3	2	3	1	1	1
Natural Gas.....	1	1	1	2	1	1	1	1
Other.....	4	4	5	4	4	2	2	2
Total.....	203	218	152	152	136	116	107	100
Carbon Dioxide								
Coal.....	47,466	57,437	68,176	69,715	69,766	70,249	73,425	70,627
Petroleum.....	752	1,185	1,265	1,070	1,259	957	864	812
Natural Gas.....	220	612	936	1,741	789	1,172	1,478	1,560
Other Renewables.....	10	42	84	61	82	105	124	139
Total.....	48,448	59,276	70,461	72,588	71,897	72,483	75,890	73,138

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1990, 1995, and 2001 Through 2006

Sector	1990	1995	2001	2002	2003	2004	2005	2006	Percentage Share	
									1990	2006
North Carolina										
Retail Sales (thousand megawatthours)										
Residential.....	33,144	39,506	46,201	49,854	49,349	51,717	54,073	52,851	36.9	41.7
Commercial.....	23,835	29,195	37,744	39,277	41,672	42,864	44,161	44,585	26.5	35.2
Industrial.....	31,265	34,063	32,931	31,381	30,314	31,075	30,101	29,263	34.8	23.1
Other.....	1,681	1,909	2,151	2,174	NA	NA	NA	NA	1.9	NA
Transportation.....	NA	NA	NA	NA	NA	NA	*	*	NA	*
All Sectors.....	89,924	104,673	119,027	122,686	121,335	125,657	128,335	126,699	100.0	100.0
Retail Revenue (million dollars).....										
Residential.....	2,599	3,207	3,750	4,085	4,106	4,369	4,680	4,818	45.3	50.5
Commercial.....	1,531	1,888	2,423	2,559	2,770	2,871	3,028	3,195	26.7	33.5
Industrial.....	1,492	1,652	1,518	1,474	1,453	1,516	1,516	1,531	26.0	16.0
Other.....	118	138	144	146	NA	NA	NA	NA	2.1	NA
Transportation.....	NA	NA	NA	NA	NA	NA	*	*	NA	*
All Sectors.....	5,740	6,885	7,835	8,263	8,329	8,756	9,224	9,544	100.0	100.0
Average Retail Prices (cents/KWh)										
Residential.....	7.84	8.12	8.12	8.19	8.32	8.45	8.65	9.12	NA	NA
Commercial.....	6.42	6.47	6.42	6.51	6.65	6.70	6.86	7.17	NA	NA
Industrial.....	4.77	4.85	4.61	4.70	4.79	4.88	5.04	5.23	NA	NA
Other.....	7.00	7.21	6.68	6.70	NA	NA	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	NA	8.33	3.23	NA	NA
All Sectors.....	6.38	6.58	6.58	6.74	6.86	6.97	7.19	7.53	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2006

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities	3	72	1	32	NA	NA	NA	108
Number of Retail Customers	3,107,724	568,554	5	967,909	NA	NA	NA	4,644,192
Retail Sales (thousand megawatthours)	95,316	15,303	6	16,074	NA	NA	NA	126,699
Percentage of Retail Sales	75.23	12.08	*	12.69	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	6,607	1,345	*	1,591	NA	NA	NA	9,544
Percentage of Revenue	69.22	14.10	*	16.67	NA	NA	NA	100.00
Average Retail Price (cents/kWh)	6.93	8.79	6.46	9.90	NA	NA	NA	7.53

Table 9 Notes: Data are shown for All Sectors. Full Service Providers sell bundled electricity services (e.g., both energy and delivery) to end users. Full Service Providers may purchase electricity from others (such as independent Power Producers or other full service providers) prior to delivery. Other Providers sell either the energy or the delivery services, but not both. Sales volumes and customer counts shown for Other Providers refer to delivered electricity, which is a joint activity of both energy and delivery providers; for clarity, they are reported only in the Energy column in this table. The revenue shown under Other Providers represents the revenue realized from the sale of the energy and the delivery services distinctly. "Public" entities include municipalities, State power agencies, and municipal marketing authorities. "Federal" entities are either owned or financed by the Federal Government. "Cooperatives" are electric utilities legally established to be owned by and operated for the benefit of those using its services. The cooperative will generate, transmit and/or distribute supplies of electric energy to a specified area not being serviced by another utility. "Facility" sales represent direct electricity transactions from independent generators to end use consumers.

Table 10. Supply and Disposition of Electricity, 1990, 1995, and 2001 Through 2006
(Million Kilowatthours)

Category	1990	1995	2001	2002	2003	2004	2005	2006
North Carolina								
Supply								
Generation								
Electric Utilities	79,845	96,110	109,807	115,598	118,433	118,329	121,675	117,797
Independent Power Producers	104	1,773	810	1,914	1,943	1,699	1,863	1,815
Combined Heat and Power, Electric	2,587	3,965	3,343	3,272	3,575	3,207	3,064	2,854
Electric Power Sector Generation Subtotal	82,535	101,848	113,961	120,784	123,951	123,234	126,602	122,467
Combined Heat and Power, Commercial	24	141	95	106	102	119	131	101
Combined Heat and Power, Industrial	2,366	4,305	3,440	3,578	3,529	2,977	3,015	2,648
Industrial and Commercial Generation Subtotal	2,390	4,447	3,535	3,684	3,631	3,096	3,147	2,748
Total Net Generation	84,926	106,295	117,496	124,468	127,582	126,330	129,749	125,215
Total Supply	84,926	106,295	117,496	124,468	127,582	126,330	129,749	125,215
Disposition								
Retail Sales								
Full Service Providers	89,924	104,673	119,027	122,686	121,304	125,657	128,335	126,699
Facility Direct Retail Sales	-	-	-	-	31	-	-	-
Total Electric Industry Retail Sales	89,924	104,673	119,027	122,686	121,335	125,657	128,335	126,699
Direct Use	3,187	4,696	3,954	4,040	4,091	4,096	2,932	2,350
Estimated Losses	6,742	7,946	5,574	7,820	7,342	8,907	12,997	13,398
Total Disposition	99,854	117,315	128,555	134,547	132,768	138,660	144,265	142,448
Net Interstate Trade	-14,928	-11,020	-11,059	-10,079	-5,186	-12,330	-14,516	-17,233
Net Trade Index (ratio)	0.85	0.91	0.91	0.93	0.96	0.91	0.90	0.88

R = Revised.

NA = Not applicable; NM = Not meaningful.

W = Withheld to avoid disclosure of individual company data.

- = Data not available.

* = Value is less than half of the smallest unit of measure (e.g., for values with no decimals, the smallest unit is 1 and values under 0.5 are shown as *).

Totals may not equal sum of components because of independent rounding.

Table 10 Notes: Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. Net Interstate Trade represents the difference between the amount of electricity produced in the State and consumed in the State. Positive values indicate a State that is a net interstate exporter of electricity; negative values indicate a State that is a net interstate importer of electricity. The Net Trade Index represents a State's electricity self-sufficiency. Values greater than 1 indicate that, on an annual net basis, the State supplied electricity consumed outside the State; values less than 1 indicate that, on an annual net basis, the State consumed electricity produced outside the State.

General Notes: Table 4 "Other Renewables" includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind. The "Other" category includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies. However, Table 5 "Other Renewables" includes only biogenic municipal solid waste, in addition to wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind. In Table 5 "Other" includes Non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies. In Table 7, "Other Renewables" emissions include biogenic municipal solid waste, and other renewable waste.

Direct use is commercial or industrial use of electricity that (1) is self-generated (2) is produced by either the same entity that consumes the power or an affiliate, and (3) is used in direct support of a service or industrial process located within the same facility or group of facilities that houses the generating equipment. Direct use is exclusive of station use.