

Table 1. 2004 Summary Statistics

Item	Value	U.S. Rank
South Carolina		
NERC Region(s).....		SERC
Primary Energy Source		Nuclear
Net Summer Capability (megawatts).....	22,196	17
Electric Utilities	20,406	11
Independent Power Producers & Combined Heat and Power	1,789	34
Net Generation (megawatthours).....	97,939,929	16
Electric Utilities	94,406,828	8
Independent Power Producers & Combined Heat and Power	3,533,101	38
Emissions (thousand metric tons)		
Sulfur Dioxide	221	18
Nitrogen Oxide	65	29
Carbon Dioxide	39,430	25
Sulfur Dioxide (lbs/MWh).....	5.0	20
Nitrogen Oxide (lbs/MWh).....	1.5	38
Carbon Dioxide (lbs/MWh).....	888	42
Total Retail Sales (megawatthours).....	79,908,340	17
Full Service Provider Sales (megawatthours).....	79,908,340	16
Direct Use (megawatthours).....	2,043,966	22
Average Retail Price (cents/kWh).....	6.22	37

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
South Carolina			
1. Oconee	Nuclear	Duke Energy Corp	2,538
2. Catawba	Nuclear	Duke Energy Corp	2,258
3. Cross	Petroleum,Coal	South Carolina Pub Serv Auth	1,160
4. Winyah.....	Petroleum,Coal	South Carolina Pub Serv Auth	1,155
5. Bad Creek.....	Pumped Storage	Duke Energy Corp	1,065
6. V C Summer	Nuclear	South Carolina Electric&Gas Co	966
7. John S Rainey	Petroleum,Gas	South Carolina Pub Serv Auth	958
8. H B Robinson.....	Gas,Petroleum,Coal	Carolina Power & Light Co	899
9. Broad River Energy Center	Petroleum,Gas	Broad River Energy LLC	843
10. Darlington County	Petroleum,Gas	Carolina Power & Light Co	812

See footnotes at end of tables.

Table 3. Top Five Providers of Retail Electricity, 2004
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
South Carolina						
1. South Carolina Electric&Gas Co	Investor-Owned	21,679,929	7,459,974	7,444,793	6,775,162	0
2. Duke Energy Corp.....	Investor-Owned	21,312,592	5,923,771	5,349,006	10,039,815	0
3. South Carolina Pub Serv Auth.....	Public	11,174,969	1,549,655	1,891,532	7,733,782	0
4. Carolina Power & Light Co.....	Investor-Owned	7,362,122	2,168,027	1,852,843	3,341,252	0
5. Berkeley Electric Coop Inc	Cooperative	1,489,032	1,129,797	167,711	191,524	0
Total Sales, Top Five Providers.....		63,018,644	18,231,224	16,705,885	28,081,535	0
Percent of Total State Sales		79	65	83	88	0

See footnotes at end of tables.

Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1990, 1995, and 2000 Through 2004
(Megawatts)

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
South Carolina									
Electric Utilities	14,908	16,701	17,716	18,246	19,101	19,402	20,406	97.5	91.9
Coal.....	4,818	5,352	6,054	6,077	5,925	5,925	5,968	31.5	26.9
Petroleum.....	274	651	671	669	669	684	684	1.8	3.1
Natural Gas.....	78	26	18	180	760	760	975	.5	4.4
Other Gases.....	364	0	0	0	0	0	0	2.4	.0
Dual Fired.....	846	858	1,046	1,385	1,676	1,963	2,738	5.5	12.3
Nuclear.....	6,346	6,364	6,445	6,445	6,492	6,472	6,472	41.5	29.2
Hydroelectric.....	1,031	1,262	1,271	1,271	1,360	1,360	1,316	6.7	5.9
Other Renewables.....	0	0	0	0	0	3	3	.0	*
Pumped Storage.....	1,152	2,187	2,211	2,219	2,219	2,235	2,251	7.5	10.1
Independent Power Producers and Combined									
Heat and Power	375	405	968	1,181	1,262	1,257	1,789	2.5	8.1
Coal.....	158	131	102	103	103	103	103	1.0	.5
Petroleum.....	1	1	3	3	3	3	3	*	*
Natural Gas.....	1	1	101	351	399	95	246	*	1.1
Dual Fired.....	3	3	505	468	501	800	1,185	*	5.3
Hydroelectric.....	18	18	26	24	24	24	24	.1	.1
Other Renewables.....	193	251	231	232	232	232	230	1.3	1.0
Total Electric Industry	15,283	17,106	18,685	19,427	20,363	20,659	22,196	100.0	100.0
Coal.....	4,976	5,483	6,156	6,180	6,028	6,028	6,072	32.6	27.4
Petroleum.....	275	652	674	672	672	686	686	1.8	3.1
Natural Gas.....	79	28	119	531	1,159	855	1,220	.5	5.5
Other Gases.....	364	0	0	0	0	0	0	2.4	.0
Dual Fired.....	849	862	1,552	1,853	2,177	2,763	3,923	5.6	17.7
Nuclear.....	6,346	6,364	6,445	6,445	6,492	6,472	6,472	41.5	29.2
Hydroelectric.....	1,049	1,280	1,297	1,295	1,384	1,384	1,340	6.9	6.0
Other Renewables.....	193	250	231	232	232	235	233	1.3	1.0
Pumped Storage.....	1,152	2,187	2,211	2,219	2,219	2,235	2,251	7.5	10.1

See footnotes at end of tables.

Table 5. Electric Power Industry Generation by Primary Energy Source, 1990, 1995, and 2000 Through 2004
(Megawatthours)

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
South Carolina									
Electric Utilities	69,259,815	78,439,814	90,421,081	86,734,778	93,689,257	91,544,429	94,406,828	97.1	96.4
Coal.....	22,874,805	25,801,600	38,664,405	36,302,690	36,490,769	37,065,509	38,516,633	32.1	39.3
Petroleum.....	71,997	129,854	265,931	225,008	205,664	289,474	690,071	.1	.7
Natural Gas.....	703,435	600,385	188,038	193,612	3,466,140	1,365,534	2,527,103	1.0	2.6
Nuclear.....	42,880,669	49,173,476	50,887,700	49,869,998	53,325,854	50,417,690	51,200,640	60.1	52.3
Hydroelectric.....	3,235,298	3,392,394	1,497,013	1,179,192	1,328,524	3,590,944	2,382,225	4.5	2.4
Other Renewables.....	0	0	0	0	15,522	22,091	239,246	.0	.2
Pumped Storage.....	-506,389	-657,895	-1,082,006	-1,035,722	-1,143,216	-1,206,813	-1,149,090	-.7	-1.2
Independent Power Producers and Combined									
Heat and Power	2,103,359	2,473,834	2,925,159	2,424,209	2,874,241	2,228,249	3,533,101	2.9	3.6
Coal.....	537,062	535,590	543,971	396,314	456,953	366,514	403,291	.8	.4
Petroleum.....	100,578	127,586	179,226	83,097	94,673	167,397	220,007	.1	.2
Natural Gas.....	84,100	89,497	744,864	982,502	1,032,179	297,248	1,267,986	.1	1.3
Other Gases.....	0	9,254	888	198	314	73	9	.0	.0
Hydroelectric.....	62,768	64,749	36,477	46,251	61,227	74,482	64,684	.1	.1
Other Renewables.....	1,318,851	1,647,158	1,419,733	915,847	1,228,895	1,322,535	1,577,124	1.8	1.6
Total Electric Industry	71,363,174	80,913,648	93,346,240	89,158,987	96,563,498	93,772,677	97,939,929	100.0	100.0
Coal.....	23,411,867	26,337,190	39,208,376	36,699,004	36,947,722	37,432,023	38,919,924	32.8	39.7
Petroleum.....	172,575	257,440	445,157	308,105	300,337	456,871	910,078	.2	.9
Natural Gas.....	787,535	689,882	932,902	1,176,114	4,498,319	1,662,782	3,795,089	1.1	3.9
Other Gases.....	0	9,254	888	198	314	73	9	.0	.0
Nuclear.....	42,880,669	49,173,476	50,887,700	49,869,998	53,325,854	50,417,690	51,200,640	60.1	52.3
Hydroelectric.....	3,298,066	3,457,143	1,533,490	1,225,443	1,389,751	3,665,426	2,446,909	4.6	2.5
Other Renewables.....	1,318,851	1,647,158	1,419,733	915,847	1,244,417	1,344,626	1,816,370	1.8	1.9
Pumped Storage.....	-506,389	-657,895	-1,082,006	-1,035,722	-1,143,216	-1,206,813	-1,149,090	-.7	-1.2

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1990, 1995, and 2000 Through 2004

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
South Carolina							
Coal (cents per million Btu).....	172.0	151.2	139.0	156.5	W	W	W
Average heat value (Btu per pound).....	12,655	12,852	12,727	12,571	12,361	12,669	12,565
Average sulfur Content (percent).....	1.2	1.2	1.1	1.1	1.2	1.1	1.2
Petroleum (cents per million Btu).....	622.1	411.1	672.3	584.6	W	W	W
Average heat value (Btu per gallon).....	138,032	138,041	138,243	143,119	144,638	144,988	138,905
Average sulfur Content (percent).....	.2	.2	.2	.2	1.2	1.7	3.7
Natural Gas (cents per million Btu).....	171.8	160.3	556.9	256.7	W	W	W
Average heat value (Btu per cubic foot).....	1,023	1,024	1,028	1,036	1,028	1,031	1,035

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1990, 1995, and 2000 Through 2004
(Thousand Metric Tons)

Emission Type	1990	1995	2000	2001	2002	2003	2004
South Carolina							
Sulfur Dioxide							
Coal	165	198	193	195	193	197	207
Petroleum.....	6	*	5	2	3	3	5
Natural Gas	0	0	*	*	*	0	*
Other.....	9	11	8	5	9	8	9
Total.....	181	209	206	202	205	207	221
Nitrogen Oxide							
Coal	88	94	86	79	82	74	62
Petroleum.....	1	1	1	1	1	*	1
Gas.....	1	1	*	*	1	1	1
Other.....	3	3	2	2	3	2	2
Total.....	93	99	89	82	85	78	65
Carbon Dioxide							
Coal	23,021	25,366	36,519	34,262	34,033	35,074	36,613
Petroleum.....	389	591	685	421	480	652	786
Gas.....	504	489	576	647	2,072	754	1,781
Geothermal.....	0	0	0	0	0	0	0
Other.....	31	27	26	25	0	179	249
Total.....	23,945	26,473	37,807	35,355	36,585	36,658	39,430

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1990, 1995, and 2000 Through 2004

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
South Carolina									
Retail Sales (thousand megawatthours)									
Residential.....	18,258	21,392	25,270	24,875	26,787	26,422	27,910	32.8	34.9
Commercial	11,927	14,020	17,483	17,484	18,157	19,336	20,113	21.4	25.2
Industrial.....	24,701	28,819	33,308	31,528	31,926	31,296	31,886	44.4	39.9
Other	766	843	951	946	950	NA	NA	1.4	NA
Total.....	55,652	65,074	77,012	74,832	77,819	77,054	79,908	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	1,305	1,611	1,916	1,912	2,069	2,117	2,267	41.9	45.6
Commercial	734	890	1,110	1,127	1,177	1,316	1,390	23.6	28.0
Industrial.....	1,032	1,153	1,246	1,218	1,229	1,251	1,315	33.2	26.4
Other	42	49	60	60	61	NA	NA	1.3	NA
Total.....	3,113	3,703	4,332	4,317	4,537	4,684	4,972	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.15	7.53	7.58	7.69	7.72	8.01	8.12	NA	NA
Commercial	6.15	6.35	6.35	6.45	6.48	6.81	6.91	NA	NA
Industrial.....	4.18	4.00	3.74	3.86	3.85	4.00	4.13	NA	NA
Other	5.53	5.87	6.29	6.39	6.44	NA	NA	NA	NA
Total.....	5.59	5.69	5.63	5.77	5.83	6.08	6.22	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
South Carolina								
Number of Entities.....	4	22	NA	21	NA	NA	NA	47
Number of Retail Customers.....	1,255,376	306,712	NA	646,395	NA	NA	NA	2,208,483
Retail Sales (thousand megawatthours)	50,566	15,175	NA	14,168	NA	NA	NA	79,908
Percentage of Retail Sales	63.28	18.99	NA	17.73	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	3,073	831	NA	1,067	NA	NA	NA	4,972
Percentage of Revenue.....	61.82	16.71	NA	21.47	NA	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.08	5.48	NA	7.53	NA	NA	NA	6.22

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 service. 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.

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

* = 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 4 "Other Renewables" includes generation from municipal solid waste;

Table 7 "Other" includes emissions from municipal solid 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.