

Table 1. 2003 Summary Statistics

Item	Value	U.S. Rank
Tennessee		
NERC Region(s).....		ECAR/SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	20,893	17
Electric Utilities	19,234	12
Independent Power Producers & Combined Heat and Power	1,659	35
Net Generation (megawatthours).....	92,221,791	18
Electric Utilities	88,678,127	9
Independent Power Producers & Combined Heat and Power	3,543,664	38
Emissions (thousand metric tons)		
Sulfur Dioxide	344	13
Nitrogen Oxide.....	129	13
Carbon Dioxide.....	55,820	17
Sulfur Dioxide (lbs/MWh).....	8.2	12
Nitrogen Oxide (lbs/MWh).....	3.1	21
Carbon Dioxide (lbs/MWh).....	1,334	29
Total Retail Sales (megawatthours).....	97,455,808	13
Full Service Provider Sales (megawatthours).....	97,455,808	13
Direct Use (megawatthours).....	3,389,262	13
Average Retail Price (cents/kWh).....	5.84	42

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2003

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Tennessee			
1. Cumberland	Petroleum, Coal	Tennessee Valley Authority	2,465
2. Johnsonville.....	Petroleum, Gas, Coal	Tennessee Valley Authority	2,330
3. Sequoyah	Nuclear	Tennessee Valley Authority	2,277
4. Raccoon Mountain	Hydro	Tennessee Valley Authority	1,652
5. Gallatin	Petroleum, Gas, Coal	Tennessee Valley Authority	1,572
6. Kingston.....	Petroleum, Coal	Tennessee Valley Authority	1,428
7. Allen Steam Plant	Petroleum, Coal	Tennessee Valley Authority	1,197
8. Watts Bar Nuclear Plant	Nuclear	Tennessee Valley Authority	1,121
9. Lagoon Creek	Petroleum, Gas	Tennessee Valley Authority	952
10. Bull Run.....	Petroleum, Coal	Tennessee Valley Authority	865

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Tennessee						
1. Memphis City of.....	Public	13,613,642	5,155,614	4,664,215	3,793,813	0
2. Nashville Electric Service	Public	11,949,165	4,393,945	4,419,359	3,135,861	0
3. Tennessee Valley Authority	Federal	8,169,012	0	0	8,169,012	0
4. Chattanooga City of.....	Public	5,567,368	1,969,556	1,842,175	1,755,637	0
5. Knoxville Utilities Board	Public	5,547,302	2,350,687	1,794,683	1,401,932	0
Total Sales, Top Five Providers.....		44,846,489	13,869,802	12,720,432	18,256,255	0
Percent of Total State Sales		46	37	46	57	0

See footnotes at end of tables.

Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
Tennessee							
Electric Utilities	16,482	17,546	19,234	1.7	96.3	96.5	92.1
Coal.....	8,615	8,604	8,609	*	50.3	47.3	41.2
Petroleum.....	0	0	56	NM	.0	.0	.3
Dual Fired.....	1,982	1,823	3,128	5.2	11.6	10.0	15.0
Nuclear.....	2,217	3,357	3,398	4.9	13.0	18.5	16.3
Hydroelectric.....	2,136	2,230	2,389	1.3	12.5	12.3	11.4
Other Renewables.....	0	0	2	NM	.0	.0	*
Pumped Storage.....	1,532	1,532	1,652	.8	9.0	8.4	7.9
Independent Power Producers and Combined							
Heat and Power	630	629	1,659	11.4	3.7	3.5	7.9
Coal.....	324	362	276	-1.8	1.9	2.0	1.3
Natural Gas.....	28	36	1,034	49.3	.2	.2	4.9
Dual Fired.....	0	4	72	NM	.0	*	.3
Hydroelectric.....	170	170	165	-.3	1.0	.9	.8
Other Renewables.....	70	19	112	5.4	.4	.1	.5
Other.....	38	38	0	NM	.2	.2	.0
Total Electric Industry	17,112	18,175	20,893	2.2	100.0	100.0	100.0
Coal.....	8,939	8,966	8,885	-.1	52.2	49.3	42.5
Petroleum.....	0	0	56	NM	.0	.0	.3
Natural Gas.....	28	36	1,034	49.3	.2	.2	4.9
Dual Fired.....	1,982	1,827	3,200	5.5	11.6	10.1	15.3
Nuclear.....	2,217	3,357	3,398	4.9	13.0	18.5	16.3
Hydroelectric.....	2,306	2,400	2,554	1.1	13.5	13.2	12.2
Other Renewables.....	70	19	114	5.6	.4	.1	.5
Pumped Storage.....	1,532	1,532	1,652	.8	9.0	8.4	7.9
Other.....	38	38	0	NM	.2	.2	.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
Tennessee							
Electric Utilities	74,853,548	94,142,638	88,678,127	1.9	95.6	96.3	96.2
Coal.....	52,132,070	55,120,297	53,376,149	.3	66.5	56.4	57.9
Petroleum.....	295,961	699,233	379,007	2.8	.4	.7	.4
Natural Gas.....	94,605	550,543	408,059	17.6	.1	.6	.4
Nuclear.....	11,932,352	28,387,543	24,152,580	8.1	15.2	29.0	26.2
Hydroelectric.....	10,991,541	10,007,358	11,087,048	.1	14.0	10.2	12.0
Other Renewables.....	0	0	3,933	NM	.0	.0	*
Pumped Storage.....	-592,981	-622,336	-728,649	NM	-8	-6	-8
Independent Power Producers and Combined							
Heat and Power	3,481,409	3,585,819	3,543,663	.2	4.4	3.7	3.8
Coal.....	1,576,478	1,712,642	1,545,148	-2	2.0	1.8	1.7
Petroleum.....	16,167	6,941	26,803	5.8	*	*	*
Natural Gas.....	209,673	307,320	218,927	.5	.3	.3	.2
Other Gases.....	3,030	15,845	2,834	-7	*	*	*
Hydroelectric.....	1,036,418	798,670	916,598	-1.4	1.3	.8	1.0
Other Renewables.....	527,967	647,545	828,187	5.1	.7	.7	.9
Other.....	111,676	96,856	5,166	-28.9	.1	.1	*
Total Electric Industry	78,334,957	97,728,457	92,221,791	1.8	100.0	100.0	100.0
Coal.....	53,708,548	56,832,939	54,921,297	.2	68.6	58.2	59.6
Petroleum.....	312,128	706,174	405,810	3.0	.4	.7	.4
Natural Gas.....	304,278	857,863	626,986	8.4	.4	.9	.7
Other Gases.....	3,030	15,845	2,834	-7	*	*	*
Nuclear.....	11,932,352	28,387,543	24,152,580	8.1	15.2	29.0	26.2
Hydroelectric.....	12,027,959	10,806,028	12,003,646	*	15.4	11.1	13.0
Other Renewables.....	527,967	647,545	832,120	5.2	.7	.7	.9
Pumped Storage.....	-592,981	-622,336	-728,649	NM	-8	-6	-8
Other.....	111,676	96,856	5,166	-28.9	.1	.1	*

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
Tennessee				
Coal (cents per million Btu).....	125.6	112.5	W	W
Average heat value (Btu per pound).....	12,186	11,733	11,465	-0.7
Average sulfur Content (percent).....	2.0	1.7	1.2	-5.6
Petroleum (cents per million Btu).....	414.9	304.5	619.3	4.5
Average heat value (Btu per gallon).....	138,244	139,886	139,903	.1
Average sulfur Content (percent).....	.5	.5	.5	.0
Natural Gas (cents per million Btu).....	.0	.0	619.7	NM
Average heat value (Btu per cubic foot).....	0	0	1,025	NM

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
Tennessee				
Sulfur Dioxide				
Coal	770	435	336	-8.8
Petroleum	*	*	1	10.2
Natural Gas	—	—	—	NM
Other	5	3	7	5.0
Total	775	439	344	-8.6
Nitrogen Oxide				
Coal	228	224	127	-6.3
Petroleum	*	*	*	7.3
Gas	1	2	1	2.9
Other	2	2	1	-12.0
Total	231	227	129	-6.2
Carbon Dioxide				
Coal	53,915	57,842	54,782	.2
Petroleum	283	631	459	5.5
Gas	407	865	571	3.8
Geothermal	—	—	—	NM
Other	36	33	8	-15.5
Total	54,641	59,372	55,820	.2

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
Tennessee							
Retail Sales (thousand megawatthours)							
Residential	32,797	35,428	37,697	1.6	39.7	38.6	38.7
Commercial	5,154	24,840	27,481	20.4	6.2	27.1	28.2
Industrial	43,614	30,461	32,278	-3.3	52.8	33.2	33.1
Other	968	1,021	NA	NM	1.2	1.1	NA
Total	82,533	91,750	97,456	1.9	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential	1,928	2,238	2,467	2.8	44.7	43.4	43.4
Commercial	342	1,560	1,836	20.5	7.9	30.3	32.3
Industrial	1,970	1,269	1,384	-3.8	45.7	24.6	24.3
Other	75	89	NA	NM	1.7	1.7	NA
Total	4,314	5,155	5,687	3.1	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential	5.88	6.32	6.55	1.2	NA	NA	NA
Commercial	6.63	6.28	6.68	.1	NA	NA	NA
Industrial	4.52	4.17	4.29	-.6	NA	NA	NA
Other	7.74	8.71	NA	NM	NA	NA	NA
Total	5.23	5.62	5.84	1.2	NA	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2003

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Tennessee								
Number of Entities.....	3	62	1	25	3	NA	NA	94
Number of Retail Customers.....	45,628	2,029,100	40	848,844	3	NA	NA	2,923,615
Retail Sales (thousand megawatthours)	2,029	66,596	8,169	19,591	1,072	NA	NA	97,456
Percentage of Retail Sales	2.08	68.33	8.38	20.10	1.10	NA	NA	100.00
Revenue from Retail Sales (million dollars)	85	4,059	252	1,282	8	NA	NA	5,687
Percentage of Revenue.....	1.49	71.38	4.43	22.54	.15	NA	NA	100.00
Average Retail Price (cents/kWh).....	4.19	6.10	3.09	6.54	.79	NA	NA	5.84

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.