

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Tennessee		
NERC Region(s).....		ECAR/SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	20,723	15
Electric Utilities	19,136	11
Independent Power Producers & Combined Heat and Power	1,587	34
Net Generation (megawatthours)	96,114,261	15
Electric Utilities	92,570,929	10
Independent Power Producers & Combined Heat and Power	3,543,332	37
Emissions (thousand short tons)		
Sulfur Dioxide	345	13
Nitrogen Oxide	162	12
Carbon Dioxide	63,214	14
Sulfur Dioxide/sq. mile.....	8	14
Nitrogen Oxide/sq. mile.....	4	12
Carbon Dioxide/sq. mile.....	1,534	17
Utility and ESP Retail Electricity Sales (megawatthours).....	98,233,027	13
Utility Retail Electricity Sales (megawatthours)	98,233,027	13
Direct Use (megawatthours).....	3,200,072	12
Average Retail Price (cents/kWh).....	5.72	40

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Tennessee			
1. Cumberland.....	Petroleum, Coal	Tennessee Valley Authority	2,455
2. Johnsonville	Gas, Petroleum, Coal	Tennessee Valley Authority	2,318
3. Sequoyah.....	Nuclear	Tennessee Valley Authority	2,251
4. Raccoon Mountain.....	Hydro	Tennessee Valley Authority	1,624
5. Gallatin.....	Gas, Petroleum, Coal	Tennessee Valley Authority	1,572
6. Kingston.....	Petroleum, Coal	Tennessee Valley Authority	1,434
7. Allen Steam Plant.....	Petroleum, Gas, Coal	Tennessee Valley Authority	1,194
8. Watts Bar Nuclear Pla.....	Nuclear	Tennessee Valley Authority	1,138
9. Lagoon Creek.....	Nuclear	Tennessee Valley Authority	952
10. Bull Run.....	Petroleum, Coal	Tennessee Valley Authority	865

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Tennessee					
A. City of Memphis.....	14,292,842	5,447,177	4,663,000	4,034,209	148,456
B. Nashville Electric Service	12,148,170	4,553,217	4,328,996	3,145,532	120,425
C. Tennessee Valley Authority	8,733,791	0	0	8,724,908	8,883
D. City of Chattanooga.....	5,751,011	2,042,047	1,830,556	1,821,473	56,935
E. City of Knoxville	5,450,450	2,422,073	1,681,845	1,282,462	64,070
Total	46,376,264	14,464,514	12,504,397	19,008,584	398,769
Percentage of Utility Sales.....	47	37	47	60	36

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Tennessee							
Coal	8,691	8,604	8,602	-0.1	52.2	47.9	41.5
Petroleum	0	0	56	NM	.0	.0	.3
Dual Fired	1,568	1,649	3,116	7.9	9.4	9.2	15.0
Nuclear	2,217	3,357	3,389	4.8	13.3	18.7	16.4
Hydroelectric	3,748	3,751	3,972	.6	22.5	20.9	19.2
Other Renewables	0	0	2	NM	.0	.0	.0
Total Electric Utilities	16,224	17,361	19,137	1.9	97.5	96.6	92.3
Coal	286	309	276	-4	1.7	1.7	1.3
Natural Gas	28	28	1,034	49.3	.2	.2	5.0
Other Gases	0	5	0	NM	.0	.0	.0
Dual Fired	0	4	0	NM	.0	.0	.0
Hydroelectric	0	170	165	NM	.0	.9	.8
Other Renewables	62	50	112	6.8	.4	.3	.5
Other	38	38	0	NM	.2	.2	.0
Total IPP's & Combined Heat and Power	414	604	1,587	16.1	2.5	3.4	7.7
Coal	8,977	8,913	8,878	-1	54.0	49.6	42.8
Petroleum	0	0	56	NM	.0	.0	.3
Natural Gas	28	28	1,034	49.3	.2	.2	5.0
Other Gases	0	5	0	NM	.0	.0	.0
Dual Fired	1,568	1,653	3,116	7.9	9.4	9.2	15.0
Nuclear	2,217	3,357	3,389	4.8	13.3	18.7	16.4
Hydroelectric	3,748	3,921	4,137	1.1	22.5	21.8	20.0
Other Renewables	62	50	114	7.0	.4	.3	.6
Other	38	38	0	NM	.2	.2	.0
Total Electric Industry	16,639	17,965	20,723	2.5	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Tennessee							
Coal	59,559,596	58,899,058	58,080,553	-0.3	80.6	60.8	60.4
Petroleum	234,545	192,880	250,325	.7	.3	.2	.3
Natural Gas	121,222	152,081	40,414	-11.5	.2	.2	.0
Nuclear	3,304,836	24,647,994	27,573,925	26.6	4.5	25.5	28.7
Hydroelectric	8,394,069	9,401,219	6,621,644	-2.6	11.4	9.7	6.9
Other Renewables	0	0	4,068	NM	.0	.0	.0
Total Electric Utilities	71,614,268	93,293,232	92,570,929	2.9	96.9	96.4	96.3
Coal	1,535,227	1,618,639	1,625,128	.6	2.1	1.7	1.7
Petroleum	4,561	4,730	19,288	17.4	.0	.0	.0
Natural Gas	171,504	204,505	429,159	10.7	.2	.2	.4
Other Gases	2,681	17,555	11,873	18.0	.0	.0	.0
Hydroelectric	0	964,685	656,175	NM	.0	1.0	.7
Other Renewables	487,722	595,285	798,396	5.6	.7	.6	.8
Other	68,236	115,440	3,314	-28.5	.1	.1	.0
Total IPP's & Combined Heat and Power	2,269,931	3,520,839	3,543,332	5.1	3.1	3.6	3.7
Coal	61,094,823	60,517,697	59,705,681	-.3	82.7	62.5	62.1
Petroleum	239,106	197,610	269,613	1.3	.3	.2	.3
Natural Gas	292,726	356,586	469,573	5.4	.4	.4	.5
Other Gases	2,681	17,555	11,873	18.0	.0	.0	.0
Nuclear	3,304,836	24,647,994	27,573,925	26.6	4.5	25.5	28.7
Hydroelectric	8,394,069	10,365,904	7,277,819	-1.6	11.4	10.7	7.6
Other Renewables	487,722	595,285	802,464	5.7	.7	.6	.8
Other	68,236	115,440	3,314	-28.5	.1	.1	.0
Total Electric Industry	73,884,199	96,814,071	96,114,261	3.0	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Tennessee				
Coal (2002 cents per million Btu)	140.6	115.6	121.7	-1.6
Average heat value (Btu per pound)	12,268	11,855	11,631	-.6
Average sulfur Content(percent)	1.9	1.9	1.3	-4.1
Petroleum (2002 cents per million Btu)	480.8	451.2	536.3	1.2
Average heat value (Btu per gallon)	138,361	139,900	138,486	*
Average sulfur Content(percent)0	.0	.5	NM
Gas (2002 cents per million Btu)0	.0	322.6	NM
Average heat value (Btu per cubic foot)	0	0	1,024	NM

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Tennessee				
Sulfur Dioxide				
Coal	847	529	341	-9.6
Petroleum	*	*	*	6.7
Gas.....	0	0	0	NM
Other.....	1	2	4	11.3
Total	849	531	345	-9.5
Nitrogen Oxide				
Coal	229	282	160	-3.9
Petroleum	*	*	*	2.2
Gas.....	1	1	1	3.7
Other.....	1	1	1	9.6
Total	230	283	162	-3.8
Carbon Dioxide				
Coal	60,644	60,865	62,678	.4
Petroleum	195	179	179	-.9
Gas.....	211	254	356	6.0
Other.....	15	10	1	-23.3
Total	61,064	61,307	63,214	.4

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Tennessee							
Retail Sales (thousand megawatthours)							
Residential.....	30,199	33,367	38,752	2.8	37.8	38.4	39.4
Commercial.....	5,175	24,745	26,523	19.9	6.5	28.5	27.0
Industrial	43,530	27,710	31,845	-3.4	54.5	31.9	32.4
Other	928	1,095	1,113	2.0	1.2	1.3	1.1
Total	79,832	86,917	98,233	2.3	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,936	2,066	2,483	2.8	41.7	43.6	44.2
Commercial.....	385	1,502	1,712	18.0	8.3	31.7	30.5
Industrial	2,241	1,085	1,322	-5.7	48.3	22.9	23.5
Other	82	89	99	2.2	1.8	1.9	1.8
Total	4,644	4,742	5,616	2.1	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	6.41	6.19	6.41	*	NA	NA	NA
Commercial.....	7.44	6.07	6.45	-1.6	NA	NA	NA
Industrial	5.15	3.92	4.15	-2.4	NA	NA	NA
Other	8.82	8.09	8.92	.1	NA	NA	NA
Total	5.82	5.46	5.72	-2	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Tennessee						
Number of Entities.....	1	71	0	19	0	91
Number of Retail Customers.....	45,450	2,052,094	0	798,506	0	2,896,050
Retail Sales (thousand megawatthours).....	1,935	77,506	0	18,793	0	98,233
Percentage of Retail Sales.....	1.97	78.90	.00	19.13	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	82	4,342	0	1,192	0	5,616
Percentage of Revenue.....	1.46	77.31	.00	21.23	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	4.24	5.60	.00	6.34	0	5.72

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

* = 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 "**".)