

Table 1. 2003 Summary Statistics

Item	Value	U.S. Rank
Kentucky		
NERC Region(s).....		ECAR/SERC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	19,068	20
Electric Utilities	15,349	16
Independent Power Producers & Combined Heat and Power	3,719	24
Net Generation (megawatthours).....	91,718,820	19
Electric Utilities	80,696,982	14
Independent Power Producers & Combined Heat and Power	11,021,838	21
Emissions (thousand metric tons)		
Sulfur Dioxide.....	483	7
Nitrogen Oxide.....	169	7
Carbon Dioxide.....	85,573	8
Sulfur Dioxide (lbs/MWh).....	11.6	4
Nitrogen Oxide (lbs/MWh).....	4.1	11
Carbon Dioxide (lbs/MWh).....	2,057	8
Total Retail Sales (megawatthours).....	85,219,631	14
Full Service Provider Sales (megawatthours).....	85,219,631	14
Direct Use (megawatthours).....	188,286	43
Average Retail Price (cents/kWh).....	4.42	51

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2003

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Kentucky			
1. Paradise.....	Petroleum, Coal	Tennessee Valley Authority	2,179
2. Ghent.....	Petroleum, Coal	Kentucky Utilities Co	1,954
3. E W Brown.....	Petroleum, Gas, Coal	Kentucky Utilities Co	1,644
4. Mill Creek.....	Gas, Coal	Louisville Gas & Electric Co	1,472
5. Shawnee.....	Petroleum, Coal	Tennessee Valley Authority	1,330
6. Big Sandy.....	Petroleum, Coal	Kentucky Power Co	1,060
7. H L Spurlock.....	Petroleum, Coal	East Kentucky Power Coop Inc	850
8. Trimble County.....	Petroleum, Gas, Coal	Louisville Gas & Electric Co	829
9. East Bend.....	Petroleum, Coal	Cincinnati Gas & Electric Co	600
10. Cane Run.....	Petroleum, Gas, Coal	Louisville Gas & Electric Co	577

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
Kentucky						
1. Kentucky Utilities Co.....	Investor-Owned	16,686,927	5,593,780	5,499,198	5,593,949	0
2. Tennessee Valley Authority.....	Federal	12,586,695	0	0	12,586,695	0
3. Louisville Gas & Electric Co.....	Investor-Owned	11,503,350	3,834,690	4,732,906	2,935,754	0
4. Kenergy Corp.....	Cooperative	9,335,174	688,284	276,058	8,370,832	0
5. Kentucky Power Co.....	Investor-Owned	6,609,224	2,356,515	1,322,500	2,930,209	0
Total Sales, Top Five Providers.....		56,721,370	12,473,269	11,830,662	32,417,439	0
Percent of Total State Sales.....		67	50	66	76	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
Kentucky							
Electric Utilities	15,506	13,995	15,349	-0.1	100.0	87.5	80.5
Coal.....	14,075	12,517	12,435	-1.4	90.8	78.3	65.2
Petroleum.....	134	70	70	-7.0	.9	.4	.4
Natural Gas.....	207	92	684	14.2	1.3	.6	3.6
Dual Fired.....	288	508	1,342	18.6	1.9	3.2	7.0
Hydroelectric.....	802	808	818	.2	5.2	5.1	4.3
Independent Power Producers and Combined							
Heat and Power	0	1,995	3,719	NM	.0	12.5	19.5
Coal.....	0	1,906	1,716	NM	.0	11.9	9.0
Natural Gas.....	0	0	1,343	NM	.0	.0	7.0
Dual Fired.....	0	85	609	NM	.0	.5	3.2
Other Renewables.....	0	4	51	NM	.0	*	.3
Total Electric Industry	15,506	15,990	19,068	2.3	100.0	100.0	100.0
Coal.....	14,075	14,423	14,151	.1	90.8	90.2	74.2
Petroleum.....	134	70	70	-7.0	.9	.4	.4
Natural Gas.....	207	92	2,027	28.9	1.3	.6	10.6
Dual Fired.....	288	593	1,951	23.7	1.9	3.7	10.2
Hydroelectric.....	802	808	818	.2	5.2	5.1	4.3
Other Renewables.....	0	4	51	NM	.0	*	.3

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
Kentucky							
Electric Utilities	84,097,034	86,151,121	80,696,982	-0.5	100.0	94.7	88.0
Coal.....	79,897,442	82,412,216	76,367,048	-5	95.0	90.6	83.3
Petroleum.....	154,819	127,062	130,280	-1.9	.2	.1	.1
Natural Gas.....	31,183	495,825	229,930	24.9	*	.5	.3
Hydroelectric.....	4,013,590	3,116,018	3,948,052	-2	4.8	3.4	4.3
Other Renewables.....	0	0	21,672	NM	.0	.0	*
Independent Power Producers and Combined							
Heat and Power	0	4,781,907	11,021,838	NM	.0	5.3	12.0
Coal.....	0	4,426,586	7,693,492	NM	.0	4.9	8.4
Petroleum.....	0	337,886	2,814,631	NM	.0	.4	3.1
Natural Gas.....	0	1,783	214,475	NM	.0	*	.2
Other Renewables.....	0	15,652	299,240	NM	.0	*	.3
Total Electric Industry	84,097,034	90,933,028	91,718,820	1.0	100.0	100.0	100.0
Coal.....	79,897,442	86,838,802	84,060,540	.6	95.0	95.5	91.6
Petroleum.....	154,819	464,948	2,944,911	38.7	.2	.5	3.2
Natural Gas.....	31,183	497,608	444,405	34.3	*	.5	.5
Hydroelectric.....	4,013,590	3,116,018	3,948,052	-2	4.8	3.4	4.3
Other Renewables.....	0	15,652	320,912	NM	.0	*	.3

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)
Kentucky				
Coal (cents per million Btu).....	116.2	105.9	122.8	0.6
Average heat value (Btu per pound).....	11,683	11,579	11,498	-2
Average sulfur Content (percent).....	2.3	2.4	2.1	-1.1
Petroleum (cents per million Btu).....	152.7	277.7	W	W
Average heat value (Btu per gallon).....	87,876	115,749	132,665	4.7
Average sulfur Content (percent).....	4.1	1.9	3.9	-5
Natural Gas (cents per million Btu).....	287.2	331.9	657.7	9.6
Average heat value (Btu per cubic foot).....	1,021	1,024	1,017	*

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)
Kentucky				
Sulfur Dioxide				
Coal	812	544	474	-5.8
Petroleum	*	*	7	49.7
Natural Gas	—	—	—	NM
Other.....	—	—	3	NM
Total	813	544	483	-5.6
Nitrogen Oxide				
Coal	317	289	161	-7.2
Petroleum	*	*	6	59.2
Gas.....	*	1	*	24.6
Other.....	—	*	1	NM
Total	318	290	169	-6.8
Carbon Dioxide				
Coal	74,174	81,248	81,565	1.1
Petroleum	133	535	3,411	43.4
Gas.....	19	310	570	46.1
Geothermal.....	—	—	—	NM
Other.....	—	—	27	NM
Total	74,326	82,093	85,573	1.6

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
Kentucky							
Retail Sales (thousand megawatthours)							
Residential.....	19,481	21,669	24,704	2.7	26.9	28.6	29.0
Commercial.....	10,095	12,729	17,946	6.6	13.9	16.8	21.1
Industrial.....	40,049	38,260	42,570	.7	55.3	50.4	49.9
Other.....	2,861	3,192	NA	NM	3.9	4.2	NA
Total.....	72,485	75,850	85,220	1.8	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	1,125	1,216	1,435	2.7	36.4	38.5	38.1
Commercial.....	534	675	963	6.8	17.3	21.4	25.6
Industrial.....	1,299	1,115	1,365	.5	42.0	35.3	36.3
Other.....	134	149	NA	NM	4.3	4.7	NA
Total.....	3,091	3,155	3,763	2.2	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	5.77	5.61	5.81	.1	NA	NA	NA
Commercial.....	5.29	5.30	5.37	.2	NA	NA	NA
Industrial.....	3.24	2.91	3.21	-.1	NA	NA	NA
Other.....	4.67	4.67	NA	NM	NA	NA	NA
Total.....	4.26	4.16	4.42	.4	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	
Kentucky								
Number of Entities.....	6	30	1	24	1	NA	NA	62
Number of Retail Customers.....	1,170,276	202,575	22	744,263	2	NA	NA	2,117,138
Retail Sales (thousand megawatthours).....	41,097	6,537	12,587	24,955	44	NA	NA	85,220
Percentage of Retail Sales.....	48.22	7.67	14.77	29.28	.05	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	1,855	346	330	1,229	3	NA	NA	3,763
Percentage of Revenue.....	49.28	9.19	8.78	32.66	.08	NA	NA	100.00
Average Retail Price (cents/kWh).....	4.51	5.29	2.63	4.93	6.95	NA	NA	4.42

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.