

Table 1. 2003 Summary Statistics

Item	Value	U.S. Rank
Ohio		
NERC Region(s).....		ECAR
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	34,060	8
Electric Utilities	27,695	2
Independent Power Producers & Combined Heat and Power	6,367	17
Net Generation (megawatthours)	146,638,128	6
Electric Utilities	139,086,083	2
Independent Power Producers & Combined Heat and Power	7,552,045	30
Emissions (thousand metric tons)		
Sulfur Dioxide	1,141	1
Nitrogen Oxide	335	1
Carbon Dioxide	127,703	3
Sulfur Dioxide (lbs/MWh).....	17.2	1
Nitrogen Oxide (lbs/MWh).....	5.0	2
Carbon Dioxide (lbs/MWh).....	1,920	12
Total Retail Sales (megawatthours)	152,189,238	4
Full Service Provider Sales (megawatthours).....	127,249,081	5
Deregulated Sales (megawatthours)	24,940,157	3
Direct Use (megawatthours).....	1,486,344	25
Average Retail Price (cents/kWh).....	6.73	25

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2003

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Ohio			
1. General James M Gavin	Petroleum, Coal	Ohio Power Co	2,600
2. J M Stuart.....	Petroleum, Coal	Dayton Power & Light Co	2,350
3. W H Sammis.....	Petroleum, Coal	Ohio Edison Co	2,233
4. Conesville	Petroleum, Coal	Columbus Southern Power Co	1,925
5. Cardinal	Petroleum, Coal	Cardinal Operating Co	1,800
6. Muskingum River.....	Petroleum, Coal	Ohio Power Co	1,365
7. Walter C Beckjord	Petroleum, Coal	Cincinnati Gas & Electric Co	1,304
8. W H Zimmer	Petroleum, Coal	Cincinnati Gas & Electric Co	1,300
9. Miami Fort.....	Petroleum, Coal	Cincinnati Gas & Electric Co	1,300
10. Hanging Rock Energy Facility	Gas	Duke Energy Hanging Rock LLC	1,288

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
Ohio						
1. Ohio Power Co.....	Investor-Owned	27,209,193	7,183,630	5,707,432	14,318,131	0
2. Columbus Southern Power Co.....	Investor-Owned	16,960,049	6,735,021	7,464,767	2,760,261	0
3. Ohio Edison Co.....	Investor-Owned	16,879,469	6,298,405	4,153,921	6,427,143	0
4. Cincinnati Gas & Electric Co.....	Investor-Owned	16,796,420	6,736,891	5,666,038	4,393,491	0
5. Dayton Power & Light Co.....	Investor-Owned	11,704,556	5,070,736	4,430,018	2,199,295	4,507
Total Sales, Top Five Providers.....		89,549,687	32,024,683	27,422,176	30,098,321	4,507
Percent of Total State Sales.....		59	65	61	52	100

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
Ohio							
Electric Utilities	27,193	26,767	27,695	0.2	98.1	98.8	81.3
Coal.....	23,058	22,456	21,258	-.9	83.2	82.9	62.4
Petroleum.....	870	771	946	.9	3.1	2.8	2.8
Natural Gas.....	502	514	2,032	16.8	1.8	1.9	6.0
Dual Fired.....	512	771	1,095	8.8	1.8	2.8	3.2
Nuclear.....	2,037	2,042	2,108	.4	7.4	7.5	6.2
Hydroelectric.....	124	123	162	3.0	.4	.5	.5
Other Renewables.....	90	90	94	.5	.3	.3	.3
Independent Power Producers and Combined							
Heat and Power	516	322	6,367	32.2	1.9	1.2	18.7
Coal.....	378	199	1,095	12.5	1.4	.7	3.2
Petroleum.....	6	6	49	26.3	*	*	.1
Natural Gas.....	3	1	3,589	119.8	*	*	10.5
Other Gases.....	73	63	81	1.2	.3	.2	.2
Dual Fired.....	24	17	1,535	58.7	.1	.1	4.5
Hydroelectric.....	3	0	0	NM	*	.0	.0
Other Renewables.....	29	36	18	-5.2	.1	.1	.1
Total Electric Industry	27,709	27,091	34,060	2.3	100.0	100.0	100.0
Coal.....	23,436	22,655	22,352	-.5	84.6	83.6	65.6
Petroleum.....	876	777	995	1.4	3.2	2.9	2.9
Natural Gas.....	505	516	5,621	30.7	1.8	1.9	16.5
Other Gases.....	73	63	81	1.2	.3	.2	.2
Dual Fired.....	536	788	2,630	19.3	1.9	2.9	7.7
Nuclear.....	2,037	2,042	2,108	.4	7.4	7.5	6.2
Hydroelectric.....	127	123	162	2.7	.5	.5	.5
Other Renewables.....	119	127	111	-8	.4	.5	.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
Ohio							
Electric Utilities	129,020,582	146,448,159	139,086,083	0.8	97.9	99.0	94.8
Coal.....	117,354,244	128,696,073	129,255,272	1.1	89.1	87.0	88.1
Petroleum.....	372,313	351,408	387,257	.4	.3	.2	.3
Natural Gas.....	152,957	518,519	456,255	12.9	.1	.3	.3
Nuclear.....	10,952,247	16,475,732	8,475,016	-2.8	8.3	11.1	5.8
Hydroelectric.....	188,821	406,427	510,835	11.7	.1	.3	.3
Other Renewables.....	0	0	1,448	NM	.0	.0	*
Independent Power Producers and Combined							
Heat and Power	2,743,028	1,491,898	7,552,045	11.9	2.1	1.0	5.1
Coal.....	1,815,314	527,108	5,513,865	13.1	1.4	.4	3.8
Petroleum.....	52,175	19,430	22,897	-8.7	*	*	*
Natural Gas.....	218,634	159,059	1,337,328	22.3	.2	.1	.9
Other Gases.....	144,300	185,762	212,523	4.4	.1	.1	.1
Hydroelectric.....	2,950	0	0	NM	*	.0	.0
Other Renewables.....	509,655	600,539	439,269	-1.6	.4	.4	.3
Other.....	0	0	26,163	NM	.0	.0	*
Total Electric Industry							
Coal	119,169,558	129,223,181	134,769,137	1.4	90.4	87.3	91.9
Petroleum.....	424,488	370,838	410,154	-4	.3	.3	.3
Natural Gas.....	371,591	677,578	1,793,583	19.1	.3	.5	1.2
Other Gases.....	144,300	185,762	212,523	4.4	.1	.1	.1
Nuclear.....	10,952,247	16,475,732	8,475,016	-2.8	8.3	11.1	5.8
Hydroelectric.....	191,771	406,427	510,835	11.5	.1	.3	.3
Other Renewables.....	509,655	600,539	440,717	-1.6	.4	.4	.3
Other.....	0	0	26,163	NM	.0	.0	*

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)
Ohio				
Coal (cents per million Btu).....	143.9	136.5	121.2	-1.9
Average heat value (Btu per pound).....	12,052	11,913	12,160	.1
Average sulfur Content (percent).....	2.3	2.0	2.1	-1.0
Petroleum (cents per million Btu).....	196.6	202.1	730.9	15.7
Average heat value (Btu per gallon).....	82,225	105,737	137,809	5.9
Average sulfur Content (percent).....	2.7	2.7	.2	-24.0
Natural Gas (cents per million Btu).....	374.5	308.4	598.0	5.3
Average heat value (Btu per cubic foot).....	1,029	1,027	1,037	.1

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)
Ohio				
Sulfur Dioxide				
Coal	1,892	1,268	1,135	-5.5
Petroleum	3	18	4	3.1
Natural Gas	—	—	*	NM
Other	10	1	2	-16.4
Total	1,905	1,287	1,141	-5.5
Nitrogen Oxide				
Coal	483	484	330	-4.2
Petroleum	1	1	3	9.4
Gas	1	2	1	2.9
Other	2	2	1	-7.9
Total	488	488	335	-4.1
Carbon Dioxide				
Coal	112,295	121,756	126,072	1.3
Petroleum	915	975	408	-8.6
Gas	356	903	1,223	14.7
Geothermal	—	—	—	NM
Other	9	—	—	NM
Total	113,576	123,635	127,703	1.3

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
Ohio							
Retail Sales (thousand megawatthours)							
Residential	41,791	44,516	49,621	1.9	27.1	27.9	32.6
Commercial	34,053	38,472	44,737	3.1	22.1	24.1	29.4
Industrial	74,010	72,998	57,828	-2.7	47.9	45.7	38.0
Other	4,522	3,807	NA	NM	2.9	2.4	NA
Transportation	NA	NA	5	NM	NA	NA	.0
Total	154,377	159,793	152,189	-2	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential	3,576	3,875	4,100	1.5	37.4	38.0	40.0
Commercial	2,628	2,950	3,377	2.8	27.5	28.9	33.0
Industrial	3,061	3,142	2,768	-1.1	32.0	30.8	27.0
Other	288	231	NA	NM	3.0	2.3	NA
Total	9,553	10,198	10,246	.8	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential	8.56	8.70	8.26	-4	NA	NA	NA
Commercial	7.72	7.67	7.55	-3	NA	NA	NA
Industrial	4.14	4.30	4.79	1.6	NA	NA	NA
Other	6.36	6.07	NA	NM	NA	NA	NA
Transportation	NA	NA	6.17	NM	NA	NA	NA
Total	6.19	6.38	6.73	.9	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	
Ohio								
Number of Entities.....	9	85	NA	25	1	10	6	136
Number of Retail Customers.....	3,751,772	370,524	NA	358,050	1	916,961	NA	5,397,308
Retail Sales (thousand megawatthours)	110,660	9,334	NA	7,126	130	24,940	NA	152,189
Percentage of Retail Sales	72.71	6.13	NA	4.68	.09	16.39	NA	100.00
Revenue from Retail Sales (million dollars)	7,061	647	NA	495	4	970	1,068	10,246
Percentage of Revenue.....	68.91	6.32	NA	4.83	.04	9.47	10.42	100.00
Average Retail Price (cents/kWh).....	6.38	6.94	NA	6.95	3.15	3.89	4.28	6.73

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.