

Table 1. 2006 Summary Statistics

Item	Value	U.S. Rank
Ohio		
NERC Region(s).....		RFC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts)	33,877	8
Electric Utilities.....	20,147	11
Independent Power Producers & Combined Heat and Power.....	13,731	7
Net Generation (megawatthours).....	155,434,075	6
Electric Utilities.....	98,159,139	7
Independent Power Producers & Combined Heat and Power.....	57,274,936	7
Emissions (thousand metric tons)		
Sulfur Dioxide	970	1
Nitrogen Oxide.....	224	2
Carbon Dioxide.....	129,010	2
Sulfur Dioxide (lbs/MWh)	13.8	1
Nitrogen Oxide (lbs/MWh)	3.2	16
Carbon Dioxide (lbs/MWh).....	1,830	11
Total Retail Sales (megawatthours).....	153,428,844	4
Full Service Provider Sales (megawatthours)	140,258,856	4
Deregulated Sales (megawatthours)	13,169,988	7
Direct Use (megawatthours)	1,296,078	26
Average Retail Price (cents/kWh).....	7.71	24

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capacity, 2006

Plant	Primary Energy Source or Technology	Operating Company	Net Summer Capacity (MW)
Ohio			
1. General James M Gavin	Coal	Ohio Power Co	2,610
2. J M Stuart.....	Coal	Dayton Power & Light Co	2,397
3. W H Sammis.....	Coal	FirstEnergy Generation Corp	2,233
4. Cardinal	Coal	Cardinal Operating Co	1,815
5. Conesville	Coal	Columbus Southern Power Co	1,695
6. Muskingum River.....	Coal	Ohio Power Co	1,375
7. Walter C Beckjord.....	Coal	Duke Energy Ohio Inc	1,304
8. W H Zimmer.....	Coal	Duke Energy Ohio Inc	1,300
9. Miami Fort.....	Coal	Duke Energy Ohio Inc	1,300
10. Hanging Rock Energy Facility	Gas	Duke Energy Ohio Inc	1,288

See footnotes at end of tables.

Table 3. Top Five Retailers of Electricity, with End Use Sectors, 2006
(Megawatthours)

Entity	Type of Provider	All Sectors	Residential	Commercial	Industrial	Transportation
1. Ohio Power Co	Investor-Owned	25,262,084	7,207,804	5,733,217	12,321,063	-
2. Ohio Edison Co	Investor-Owned	20,273,176	7,349,003	5,331,132	7,593,041	-
3. Duke Energy Ohio Inc.....	Investor-Owned	20,219,900	7,049,188	7,370,420	5,800,292	-
4. Columbus Southern Power Co	Investor-Owned	19,374,356	7,270,635	8,287,092	3,816,629	-
5. Cleveland Electric Illum Co	Investor-Owned	16,936,804	4,985,554	4,104,349	7,809,656	37,245
Total Sales, Top Five Providers		102,066,320	33,862,184	30,826,210	37,340,681	37,245
Percent of Total State Sales		67	66	67	67	85

See footnotes at end of tables.

Table 4. Electric Power Net Summer Capacity by Primary Energy Source and Industry Sector, 1990, 1995, and 2001 Through 2006
(Megawatts)

Energy Source	1990	1995	2001	2002	2003	2004	2005	2006	Percentage Share	
									1990	2006
Ohio										
Electric Utilities.....	26,996	27,365	27,081	27,885	27,694	27,684	19,312^R	20,147	98.8	59.5
Coal.....	23,086	23,123	21,675	21,599	21,258	21,366	16,272 ^R	16,296	84.5	48.1
Petroleum.....	1,151 ^R	853 ^R	1,381	1,000	1,017	1,008	588 ^R	588	4.2	1.7
Natural Gas	501 ^R	1,140 ^R	1,661	2,921	3,056	3,074	2,346 ^R	3,156	1.8	9.3
Nuclear.....	2,043	2,042	2,111	2,111	2,108	2,108	-	-	7.5	-
Hydroelectric	125	117	163	164	162	122	101	101	0.5	0.3
Other Renewables.....	90	90	90	90	94	7	7	7	0.3	*
Independent Power Producers and Combined Heat and Power	328	328	2,472	3,592	6,366	6,366	14,558^R	13,731	1.2	40.5
Coal.....	193	197	1,099	1,099	1,094	1,047	6,042 ^R	5,969	0.7	17.6
Petroleum.....	-	6	49	49	49	49	469 ^R	469	-	1.4
Natural Gas	41	20	1,223	2,345	5,124	5,113	5,812 ^R	5,006	0.2	14.8
Other Gases.....	63	73	84	81	81	100	100	100	0.2	0.3
Nuclear.....	-	-	-	-	-	-	2,108	2,120	-	6.3
Hydroelectric	2	3	-	-	-	-	-	-	*	-
Other Renewables.....	29	29	17	17	17	57	27	67	0.1	0.2
Total Electric Industry.....	27,324	27,693	29,553	31,477	34,060	34,050	33,870	33,877	100.0	100.0
Coal.....	23,279	23,320	22,774	22,698	22,352	22,412	22,313	22,264	85.2	65.7
Petroleum.....	1,151 ^R	859 ^R	1,430	1,049	1,066	1,057	1,057	1,057	4.2	3.1
Natural Gas	542 ^R	1,159 ^R	2,884	5,266	8,180	8,187	8,157	8,161	2.0	24.1
Other Gases.....	63	73	84	81	81	100	100	100	0.2	0.3
Nuclear.....	2,043	2,042	2,111	2,111	2,108	2,108	2,108	2,120	7.5	6.3
Hydroelectric	127	120	163	164	162	122	101	101	0.5	0.3
Other Renewables.....	119	119	107	107	111	65	35	75	0.4	0.2

See footnotes at end of tables.

Table 5. Electric Power Net Generation by Primary Energy Source and Industry Sector, 1990, 1995, and 2001 Through 2006
(Megawatthours)

Energy Source	1990	1995	2001	2002	2003	2004	2005	2006	Percentage Share	
									1990	2006
Ohio										
Electric Utilities.....	126,509,829	137,860,132	135,484,174	139,904,106	139,086,083	142,305,499	102,750,838^R	98,159,139	98.9	63.2
Coal.....	115,014,081	120,043,024	118,766,821	127,373,404	129,255,272	124,004,082	101,302,047 ^R	96,674,346	89.9	62.2
Petroleum.....	301,244	298,119	406,434	380,710	387,257	1,354,023	253,906 ^R	245,951	0.2	0.2
Natural Gas.....	91,191	523,480	336,372	796,761	456,255	266,954	665,873 ^R	592,505	0.1	0.4
Nuclear.....	10,663,897	16,768,050	15,463,762	10,864,902	8,475,016	15,950,121	- ^R	-	8.3	-
Hydroelectric.....	172,582	227,459	510,785	488,329	510,835	729,876	515,744	631,936	0.1	0.4
Other Renewables.....	266,834	-	-	-	1,448	443	13,268	14,401	0.2	*
Independent Power Producers and Combined Heat and Power.....	1,470,698	1,483,770	6,777,633	7,164,743	7,552,045	6,040,406	54,225,485^R	57,274,936	1.1	36.8
Coal.....	818,569	586,404	5,446,415	5,579,661	5,513,865	4,212,989	35,572,504 ^R	36,787,206	0.6	23.7
Petroleum.....	73,237	31,945	10,264	8,409	22,897	34,859	1,136,743 ^R	1,109,449	0.1	0.7
Natural Gas.....	150,394	201,341	588,044	969,893	1,337,328	1,119,303	2,028,356 ^R	1,784,684	0.1	1.1
Other Gases.....	64,159	139,069	301,949	206,565	212,523	302,628	297,392	360,009	0.1	0.2
Nuclear.....	-	-	-	-	-	-	14,802,733 ^R	16,846,939	-	10.8
Hydroelectric.....	8,813	4,762	-	-	-	-	-	-	*	-
Other Renewables.....	355,526	520,249	430,961	151,311	439,269	370,617	385,819 ^R	384,494	0.3	0.2
Other.....	-	-	-	248,904	26,163	8	1,937	2,155	-	*
Total Electric Industry.....	127,980,527	139,343,902	142,261,807	147,068,849	146,638,128	148,345,905	156,976,323	155,434,075	100.0	100.0
Coal.....	115,832,650	120,629,428	124,213,236	132,953,065	134,769,137	128,217,071	136,874,551	133,461,552	90.5	85.9
Petroleum.....	374,481	330,064	416,698	389,119	410,154	1,388,882	1,390,649	1,355,400	0.3	0.9
Natural Gas.....	241,585	724,821	924,416	1,766,654	1,793,583	1,386,257	2,694,229	2,377,189	0.2	1.5
Other Gases.....	64,159	139,069	301,949	206,565	212,523	302,628	297,392	360,009	0.1	0.2
Nuclear.....	10,663,897	16,768,050	15,463,762	10,864,902	8,475,016	15,950,121	14,802,733	16,846,939	8.3	10.8
Hydroelectric.....	181,395	232,221	510,785	488,329	510,835	729,876	515,744	631,936	0.1	0.4
Other Renewables.....	622,360	520,249	430,961	151,311	440,717	371,060	399,087 ^R	398,895	0.5	0.3
Other.....	-	-	-	248,904	26,163	8	1,937	2,155	-	*

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices and Quality for Coal, Petroleum, and Natural Gas, 1990, 1995, and 2001 Through 2006

Fuel, Quality	1990	1995	2001	2002	2003	2004	2005	2006
Ohio								
Coal (cents per million Btu)	152	142	131	W	121	133	154	170
Average heat value (Btu per pound)	11,882	12,122	11,550	12,143	12,160	12,098	12,097	11,525
Average sulfur Content (percent)	2.44	1.89	2.07	1.98	2.14	2.25	2.16	1.68
Petroleum (cents per million Btu)	459	349	601	W	731	W	1,291	1,224
Average heat value (Btu per gallon)	142,917	128,733	142,143	125,426	137,810	137,986	138,193	138,150
Average sulfur Content (percent)	0.48	0.76	0.23	0.13	0.23	0.19	0.09	0.07
Natural Gas (cents per million Btu)	255	228	797	375	598	648	924	771
Average heat value (Btu per cubic foot)	1,008	1,027	1,010	1,028	1,037	1,034	1,030	1,033

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1990, 1995, and 2001 Through 2006
(Thousand Metric Tons)

Emission Type	1990	1995	2001	2002	2003	2004	2005	2006
Ohio								
Sulfur Dioxide								
Coal.....	2,008	1,108	1,081	1,082	1,135	1,044	1,050	941
Petroleum.....	4	3	10	11	4	4	5	27
Natural Gas.....	-	*	*	*	*	*	*	*
Other.....	2	7	2	2	2	2	2	2
Total.....	2,014	1,118	1,093	1,096	1,141	1,050	1,057	970
Nitrogen Oxide								
Coal.....	500	474	309	340	326	247	234	220
Petroleum.....	1	1	4	4	2	1	1	1
Natural Gas.....	1	1	1	1	1	2	1	1
Other.....	2	1	2	2	2	2	1	1
Total.....	503	478	316	347	331	251	238	224
Carbon Dioxide								
Coal.....	108,326	113,590	116,704	121,296	125,944	120,669	128,847	125,454
Petroleum.....	733	787	424	308	410	1,416	1,372	2,198
Natural Gas.....	290	695	1,163	1,364	1,224	1,181	1,603	1,351
Other Renewables.....	9	7	-	-	-	14	9	8
Total.....	109,359	115,078	118,291	122,968	127,577	123,281	131,831	129,010

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Retail Prices by Sector, 1990, 1995, and 2001 Through 2006

Sector	1990	1995	2001	2002	2003	2004	2005	2006	Percentage Share	
									1990	2006
Ohio										
Retail Sales (thousand megawatthours)										
Residential.....	37,889	44,010	47,346	50,864	49,621	50,300	53,904	51,375	26.6	33.5
Commercial.....	30,541	35,549	39,372	39,924	44,737	45,313	46,870	46,141	21.4	30.1
Industrial.....	69,682	74,473	65,099	58,472	57,828	58,558	59,354	55,869	48.9	36.4
Other.....	4,354	4,592	3,981	4,148	NA	NA	NA	NA	3.1	NA
Transportation.....	NA	NA	NA	NA	5	49	48	44	NA	*
All Sectors.....	142,465	158,626	155,798	153,407	152,189	154,221	160,176	153,429	100.0	100.0
Retail Revenue (million dollars).....										
Residential.....	3,049	3,784	3,963	4,193	4,100	4,251	4,586	4,801	36.3	40.6
Commercial.....	2,269	2,731	3,333	3,119	3,377	3,510	3,716	3,893	27.0	32.9
Industrial.....	2,808	3,104	2,780	2,845	2,768	2,864	3,029	3,133	33.5	26.5
Other.....	267	287	233	225	NA	NA	NA	NA	3.2	NA
Transportation.....	NA	NA	NA	NA	*	5	4	4	NA	*
All Sectors.....	8,393	9,906	10,309	10,383	10,246	10,629	11,336	11,831	100.0	100.0
Average Retail Prices (cents/KWh)										
Residential.....	8.05	8.60	8.37	8.24	8.26	8.45	8.51	9.34	NA	NA
Commercial.....	7.43	7.68	8.46	7.81	7.55	7.75	7.93	8.44	NA	NA
Industrial.....	4.03	4.17	4.27	4.87	4.79	4.89	5.10	5.61	NA	NA
Other.....	6.14	6.26	5.86	5.42	NA	NA	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	6.17	9.21	9.03	10.13	NA	NA
All Sectors.....	5.89	6.24	6.62	6.77	6.73	6.89	7.08	7.71	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2006

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Number of Entities	8	85	NA	25	NA	8	6	132
Number of Retail Customers	4,452,882	378,714	NA	374,639	NA	312,498	NA	5,518,733
Retail Sales (thousand megawatthours)	122,884	9,879	NA	7,496	NA	13,170	NA	153,429
Percentage of Retail Sales	80.09	6.44	NA	4.89	NA	8.58	NA	100.00
Revenue from Retail Sales (million dollars)	9,382	802	NA	583	NA	591	474	11,831
Percentage of Revenue	79.30	6.78	NA	4.93	NA	5.00	4.00	100.00
Average Retail Price (cents/kWh)	7.63	8.12	NA	7.77	NA	4.49	3.60	7.71

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 services. 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.

Table 10. Supply and Disposition of Electricity, 1990, 1995, and 2001 Through 2006
(Million Kilowatthours)

Category	1990	1995	2001	2002	2003	2004	2005	2006
Supply								
Generation								
Electric Utilities	126,510	137,860	135,484	139,904	139,086	142,305	102,751	98,159
Independent Power Producers	9	5	5,242	6,421	6,124	4,699	52,817	55,836
Combined Heat and Power, Electric	32	20	268	302	382	319	328	322
Electric Power Sector Generation Subtotal	126,551	137,885	140,995	146,627	145,591	147,324	155,896	154,317
Combined Heat and Power, Commercial	87	34	20	7	6	*	*	-
Combined Heat and Power, Industrial	1,343	1,425	1,247	434	1,041	1,022	1,080	1,117
Industrial and Commercial Generation Subtotal	1,430	1,459	1,267	442	1,047	1,022	1,080	1,117
Total Net Generation	127,981	139,344	142,262	147,069	146,638	148,346	156,976	155,434
Total International Imports	-	-	-	*	2	3	49	844
Total Supply	127,981	139,344	142,262	147,069	146,640	148,349	157,025	156,278
Disposition								
Retail Sales								
Full Service Providers	142,465	158,626	144,438	132,971	127,119	126,207	133,461	140,259
Energy-Only Providers	-	-	11,360	20,436	24,940	27,882	26,716	13,170
Facility Direct Retail Sales	-	-	-	-	130	132	-	-
Total Electric Industry Retail Sales	142,465	158,626	155,798	153,407	152,189	154,221	160,176	153,429
Direct Use	1,430	1,465	1,436	1,468	1,486	1,488	1,265	1,296
Total International Exports	-	-	-	4	14	68	397	225
Estimated Losses	10,682	12,042	8,469	9,788	8,984	12,719	10,529	11,075
Total Disposition	154,577	172,132	165,704	164,667	162,674	168,496	172,367	166,025
Net Interstate Trade	-26,596	-32,789	-23,442	-17,598	-16,033	-20,147	-15,342	-9,746
Net Trade Index (ratio)	0.83	0.81	0.86	0.89	0.90	0.88	0.91	0.94

R = Revised.

NA = Not applicable; NM = Not meaningful.

W = Withheld to avoid disclosure of individual company data.

- = Data not available.

* = 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 10 Notes: Estimated Losses are reported at the utility level, and then allocated to States based on the utility's retail sales by State. Reported losses may include electricity unaccounted for by the utility. Net Interstate Trade represents the difference between the amount of electricity produced in the State and consumed in the State. Positive values indicate a State that is a net interstate exporter of electricity; negative values indicate a State that is a net interstate importer of electricity. The Net Trade Index represents a State's electricity self-sufficiency. Values greater than 1 indicate that, on an annual net basis, the State supplied electricity consumed outside the State; values less than 1 indicate that, on an annual net basis, the State consumed electricity produced outside the State.

General Notes: Table 4 "Other Renewables" includes wood, black liquor, other wood waste, municipal solid waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind. The "Other" category includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies. However, Table 5 "Other Renewables" includes only biogenic municipal solid waste, in addition to wood, black liquor, other wood waste, landfill gas, sludge waste, agriculture byproducts, other biomass, geothermal, solar thermal, photovoltaic energy, and wind. In Table 5 "Other" includes Non-biogenic municipal solid waste, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, tire-derived fuels and miscellaneous technologies. In Table 7, "Other Renewables" emissions include biogenic municipal solid waste, and other renewable 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.