

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Pennsylvania		
NERC Region(s).....		ECAR/MACC
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	39,783	5
Electric Utilities	4,887	34
Independent Power Producers & Combined Heat and Power	34,896	3
Net Generation (megawatthours).....	204,322,878	2
Electric Utilities	30,537,243	33
Independent Power Producers & Combined Heat and Power	173,785,635	2
Emissions (thousand short tons)		
Sulfur Dioxide	892	2
Nitrogen Oxide	224	6
Carbon Dioxide	125,225	5
Sulfur Dioxide/sq. mile.....	19	5
Nitrogen Oxide/sq. mile.....	5	10
Carbon Dioxide/sq. mile.....	2,719	10
Utility and ESP Retail Electricity Sales (megawatthours).....	140,786,670	6
Utility Retail Electricity Sales (megawatthours)	129,654,562	5
ESP Retail Electricity Sales (megawatthours).....	11,132,108	5
Direct Use (megawatthours).....	-454,086	49
Average Retail Price (cents/kWh).....	8.01	13

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Pennsylvania			
1. Bruce Mansfield.....	Petroleum, Coal	Pennsylvania Power Co	2,360
2. Limerick	Nuclear	Exelon Generation Co LLC	2,268
3. PPL Susquehanna	Nuclear	PPL Susquehanna LLC	2,216
4. Peach Bottom.....	Nuclear	Exelon Generation Co LLC	2,186
5. PPL Martins Creek	Gas, Petroleum, Coal	PPL Martins Creek LLC	2,027
6. Homer City Station.....	Coal	Midwest Generations EME LLC	1,884
7. Conemaugh	Petroleum, Gas, Coal	Reliant Energy Mid-Atlantic PH	1,712
8. Keystone.....	Petroleum, Coal	Reliant Energy Mid-Atlantic PH	1,712
9. Beaver Valley	Nuclear	Pennsylvania Power Co	1,641
10. Hatfields Ferry Power.....	Gas, Petroleum, Coal	Allegheny Energy Supply Co LLC	1,590

See footnotes at end of tables.

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

Utility	All Sectors	Residential	Commercial	Industrial	Other
Pennsylvania					
A. PECO Energy Company.....	33,687,140	10,364,563	7,604,030	14,765,926	952,621
B. Pennsylvania Power & Light Co.....	33,631,765	12,592,661	11,665,339	9,200,387	173,378
C. West Penn Power Company	19,007,704	6,459,672	4,520,735	7,975,017	52,280
D. Pennsylvania Electric Company.....	12,391,335	4,154,844	4,686,868	3,508,037	41,586
E. Metropolitan Edison Company	10,993,418	4,718,826	3,869,957	2,369,628	35,007
Total	109,711,362	38,290,566	32,346,929	37,818,995	1,254,872
Percentage of Utility Sales.....	78	78	72	83	88

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
Pennsylvania							
Coal	17,480	17,386	2,360	-19.9	48.8	47.4	5.9
Petroleum	4,115	2,225	0	NM	11.5	6.1	.0
Natural Gas	242	2,078	0	NM	.7	5.7	.0
Dual Fired	965	1,188	7	-41.9	2.7	3.2	.0
Nuclear	8,709	9,006	1,641	-16.9	24.3	24.6	4.1
Hydroelectric	1,912	1,942	879	-8.3	5.3	5.3	2.2
Total Electric Utilities	33,423	33,825	4,887	-19.2	93.4	92.3	12.3
Coal	1,294	1,568	16,024	32.3	3.6	4.3	40.3
Petroleum	15	15	2,283	74.9	.0	.0	5.7
Natural Gas	234	292	2,482	30.0	.7	.8	6.2
Other Gases	251	189	105	-9.3	.7	.5	.3
Dual Fired	264	389	4,822	38.1	.7	1.1	12.1
Nuclear	0	0	7,486	NM	.0	.0	18.8
Hydroelectric	85	84	1,217	34.4	.2	.2	3.1
Other Renewables	232	286	477	8.3	.6	.8	1.2
Other	2	2	0	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	2,378	2,825	34,896	34.8	6.6	7.7	87.7
Coal	18,774	18,954	18,384	-.2	52.4	51.7	46.2
Petroleum	4,130	2,240	2,283	-6.4	11.5	6.1	5.7
Natural Gas	476	2,370	2,482	20.1	1.3	6.5	6.2
Other Gases	251	189	105	-9.3	.7	.5	.3
Dual Fired	1,229	1,577	4,829	16.4	3.4	4.3	12.1
Nuclear	8,709	9,006	9,127	.5	24.3	24.6	22.9
Hydroelectric	1,997	2,026	2,096	.5	5.6	5.5	5.3
Other Renewables	232	286	477	8.3	.6	.8	1.2
Other	2	2	0	NM	.0	.0	.0
Total Electric Industry	35,801	36,650	39,783	1.2	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
Pennsylvania							
Coal	100,390,066	105,445,514	15,935,860	-18.5	55.4	54.5	7.8
Petroleum	4,559,186	2,307,411	39,420	-41.0	2.5	1.2	.0
Natural Gas	796,697	611,049	1,934	-48.8	.4	.3	.0
Nuclear	59,330,534	67,654,588	13,594,705	-15.1	32.7	35.0	6.7
Hydroelectric	1,124,203	1,147,954	965,324	-1.7	.6	.6	.5
Total Electric Utilities	166,200,686	177,166,516	30,537,243	-17.2	91.7	91.6	14.9
Coal	7,741,753	10,058,989	97,970,580	32.6	4.3	5.2	47.9
Petroleum	454,135	397,697	2,693,525	21.9	.3	.2	1.3
Natural Gas	3,072,971	2,043,854	6,713,603	9.1	1.7	1.1	3.3
Other Gases	1,097,976	756,189	568,725	-7.0	.6	.4	.3
Nuclear	0	0	62,494,225	NM	.0	.0	30.6
Hydroelectric	368,216	470,117	587,485	5.3	.2	.2	.3
Other Renewables	2,070,887	2,540,879	2,757,492	3.2	1.1	1.3	1.3
Other	207,510	28,955	0	NM	.1	.0	.0
Total IPP's & Combined Heat and Power	15,013,448	16,296,680	173,785,635	31.3	8.3	8.4	85.1
Coal	108,131,819	115,504,503	113,906,440	.6	59.7	59.7	55.7
Petroleum	5,013,321	2,705,108	2,732,945	-6.5	2.8	1.4	1.3
Natural Gas	3,869,668	2,654,903	6,715,537	6.3	2.1	1.4	3.3
Other Gases	1,097,976	756,189	568,725	-7.0	.6	.4	.3
Nuclear	59,330,534	67,654,588	76,088,930	2.8	32.7	35.0	37.2
Hydroelectric	1,492,419	1,618,071	1,552,809	.4	.8	.8	.8
Other Renewables	2,070,887	2,540,879	2,757,492	3.2	1.1	1.3	1.3
Other	207,510	28,955	0	NM	.1	.0	.0
Total Electric Industry	181,214,134	193,463,196	204,322,878	1.3	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)
Pennsylvania				
Coal (2002 cents per million Btu)	160.1	139.3	125.3	-2.7
Average heat value (Btu per pound)	12,443	12,279	11,782	-6
Average sulfur Content(percent)	2.1	2.1	1.9	-7
Petroleum (2002 cents per million Btu)	263.4	230.9	463.9	6.5
Average heat value (Btu per gallon)	141,623	126,593	143,421	.1
Average sulfur Content(percent)	1.2	2.3	.5	-9.4
Gas (2002 cents per million Btu)	287.2	300.6	389.9	3.4
Average heat value (Btu per cubic foot)	1,030	1,034	1,027	*

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)
Pennsylvania				
Sulfur Dioxide				
Coal	1,209	1,103	885	-3.4
Petroleum	41	25	7	-18.0
Gas.....	*	*	*	-8.7
Other.....	1	2	*	-15.0
Total	1,252	1,130	892	-3.7
Nitrogen Oxide				
Coal	370	278	211	-6.1
Petroleum	8	4	3	-10.0
Gas.....	18	12	4	-15.9
Other.....	4	4	6	3.9
Total	401	298	224	-6.3
Carbon Dioxide				
Coal	110,919	117,557	118,524	.7
Petroleum	5,023	2,927	2,844	-6.1
Gas.....	2,940	1,955	3,500	2.0
Other.....	283	351	356	2.6
Total	119,166	122,790	125,225	.5

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
Pennsylvania							
Retail Sales (thousand megawatthours)							
Residential.....	41,455	42,715	48,876	1.8	34.5	33.4	34.7
Commercial.....	32,252	35,899	45,115	3.8	26.9	28.1	32.0
Industrial	44,949	47,957	45,367	.1	37.5	37.5	32.2
Other	1,325	1,304	1,430	.8	1.1	1.0	1.0
Total	119,981	127,875	140,787	1.8	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	4,410	4,344	4,747	.8	41.7	41.3	42.1
Commercial.....	2,979	3,102	3,623	2.2	28.1	29.5	32.1
Industrial	3,022	2,900	2,747	-1.0	28.6	27.6	24.4
Other	171	157	159	-.8	1.6	1.5	1.4
Total	10,582	10,503	11,276	.7	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	10.64	10.17	9.71	-1.0	NA	NA	NA
Commercial.....	9.24	8.64	8.03	-1.5	NA	NA	NA
Industrial	6.72	6.05	6.06	-1.1	NA	NA	NA
Other	12.88	12.04	11.10	-1.6	NA	NA	NA
Total	8.82	8.21	8.01	-1.1	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
Pennsylvania						
Number of Entities.....	10	36	0	13	20	79
Number of Retail Customers.....	4,363,782	660,382	0	205,487	462,446	5,692,097
Retail Sales (thousand megawatthours).....	113,585	13,797	0	2,273	11,132	140,787
Percentage of Retail Sales.....	80.68	9.80	.00	1.61	7.91	100.00
Revenue from Retail Sales (million 2002 dollars).....	9,390	1,053	0	237	597	11,276
Percentage of Revenue.....	83.27	9.34	.00	2.10	5.29	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	8.27	7.63	.00	10.41	0	8.01

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 "**".)