

**Table 1. 2006 Summary Statistics**

Item	Value	U.S. Rank
<b>Pennsylvania</b>		
NERC Region(s).....		<b>RFC</b>
Primary Energy Source.....		<b>Coal</b>
Net Summer Capacity (megawatts) .....	<b>45,005</b>	<b>4</b>
Electric Utilities.....	455	44
Independent Power Producers & Combined Heat and Power.....	44,551	2
Net Generation (megawatthours).....	<b>218,811,595</b>	<b>3</b>
Electric Utilities.....	1,311,434	42
Independent Power Producers & Combined Heat and Power.....	217,500,161	2
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	839	2
Nitrogen Oxide.....	176	5
Carbon Dioxide.....	125,864	4
Sulfur Dioxide (lbs/MWh) .....	8.5	10
Nitrogen Oxide (lbs/MWh) .....	1.8	32
Carbon Dioxide (lbs/MWh).....	1,268	31
Total Retail Sales (megawatthours).....	<b>146,150,358</b>	<b>5</b>
Full Service Provider Sales (megawatthours) .....	137,244,377	5
Deregulated Sales (megawatthours) .....	8,905,981	9
Direct Use (megawatthours) .....	<b>2,872,473</b>	<b>11</b>
Average Retail Price (cents/kWh).....	<b>8.68</b>	<b>18</b>

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)
<b>Pennsylvania</b>			
1. Bruce Mansfield .....	Coal	FirstEnergy Generation Corp	2,460
2. PPL Susquehanna .....	Nuclear	PPL Susquehanna LLC	2,275
3. Limerick.....	Nuclear	Exelon Generation Co LLC	2,268
4. Peach Bottom.....	Nuclear	Exelon Generation Co LLC	2,224
5. PPL Martins Creek .....	Coal	PPL Martins Creek LLC	2,027
6. Homer City Station.....	Coal	Midwest Generations EME LLC	1,884
7. Conemaugh.....	Coal	Reliant Engy NE Management Co	1,712
7. Keystone .....	Coal	Reliant Engy NE Management Co	1,712
9. Beaver Valley .....	Nuclear	FirstEnergy Nuclear Operating Company	1,681
10. Hatfields Ferry Power Station .....	Coal	Allegheny Energy Supply Co LLC	1,590

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. PECO Energy Co.....	Investor-Owned	37,332,842	12,797,386	8,021,143	15,788,191	726,122
2. PPL Electric Utilities Corp.....	Investor-Owned	36,502,025	13,645,099	13,209,976	9,584,940	62,010
3. West Penn Power Co.....	Investor-Owned	19,925,043	6,903,375	4,908,511	8,102,172	10,985
4. Metropolitan Edison Co.....	Investor-Owned	13,825,347	5,286,865	4,542,584	3,995,898	-
5. Pennsylvania Electric Co.....	Investor-Owned	13,518,662	4,350,840	4,985,305	4,182,517	-
Total Sales, Top Five Providers.....		121,103,919	42,983,565	35,667,519	41,653,718	799,117
Percent of Total State Sales.....		83	83	78	87	98

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
<b>Pennsylvania</b>										
<b>Electric Utilities.....</b>	<b>33,440</b>	<b>33,699</b>	<b>4,978</b>	<b>4,887</b>	<b>4,921</b>	<b>4,968</b>	<b>455<sup>R</sup></b>	<b>455</b>	<b>94.8</b>	<b>1.0</b>
Coal.....	17,543	17,503	2,407	2,360	2,360	2,407	- <sup>R</sup>	-	49.7	-
Petroleum.....	5,031 <sup>R</sup>	4,860 <sup>R</sup>	3	3	-	-	-	-	14.3	-
Natural Gas.....	242 <sup>R</sup>	447 <sup>R</sup>	48	4	30	30	30	30	0.7	0.1
Nuclear.....	8,747	8,956	1,641	1,641	1,652	1,652	- <sup>R</sup>	-	24.8	-
Hydroelectric.....	647	647	444	444	444	444	425 <sup>R</sup>	425	1.8	0.9
Pumped Storage.....	1,230	1,285	435	435	435	435	- <sup>R</sup>	-	3.5	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>1,850</b>	<b>2,715</b>	<b>32,699</b>	<b>34,896</b>	<b>37,448</b>	<b>40,168</b>	<b>44,442<sup>R</sup></b>	<b>44,551</b>	<b>5.2</b>	<b>99.0</b>
Coal.....	926	1,564	16,171	16,024	15,777	16,255	18,659 <sup>R</sup>	18,771	2.6	41.7
Petroleum.....	74	75	4,807	3,368	5,030	4,918	4,604	4,664	0.2	10.4
Natural Gas.....	487	448	2,466	6,218	7,053	9,354	9,371	9,319	1.4	20.7
Other Gases.....	161	257	106	105	110	110	110	110	0.5	0.2
Nuclear.....	-	-	7,489	7,486	7,523	7,577	9,195 <sup>R</sup>	9,234	-	20.5
Hydroelectric.....	85	85	292	307	307	307	322 <sup>R</sup>	322	0.2	0.7
Other Renewables.....	114	285	458	477	575	578	675	618	0.3	1.4
Pumped Storage.....	-	-	910	910	1,072	1,070	1,505 <sup>R</sup>	1,513	-	3.4
Other.....	2	2	-	-	-	-	-	-	*	-
<b>Total Electric Industry.....</b>	<b>35,290</b>	<b>36,413</b>	<b>37,678</b>	<b>39,783</b>	<b>42,368</b>	<b>45,136</b>	<b>44,897</b>	<b>45,005</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	18,469	19,067	18,578	18,384	18,137	18,662	18,659	18,771	52.3	41.7
Petroleum.....	5,104 <sup>R</sup>	4,935 <sup>R</sup>	4,811	3,372	5,030	4,918	4,604	4,664	14.5	10.4
Natural Gas.....	729 <sup>R</sup>	895 <sup>R</sup>	2,515	6,223	7,083	9,384	9,400	9,349	2.1	20.8
Other Gases.....	161	257	106	105	110	110	110	110	0.5	0.2
Nuclear.....	8,747	8,956	9,130	9,127	9,175	9,229	9,195	9,234	24.8	20.5
Hydroelectric.....	732	732	736	751	751	751	748	748	2.1	1.7
Other Renewables.....	114	285	458	477	575	578	675	618	0.3	1.4
Pumped Storage.....	1,230	1,285	1,345	1,345	1,507	1,505	1,505	1,513	3.5	3.4
Other.....	2	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
<b>Pennsylvania</b>										
<b>Electric Utilities.....</b>	<b>165,682,846</b>	<b>168,941,707</b>	<b>27,633,966</b>	<b>30,537,243</b>	<b>30,099,444</b>	<b>33,900,004</b>	<b>1,058,313<sup>R</sup></b>	<b>1,311,434</b>	<b>94.3</b>	<b>0.6</b>
Coal.....	101,996,271	96,799,645	13,863,092	15,935,860	15,944,113	18,396,944	- <sup>R</sup>	-	58.1	-
Petroleum.....	4,013,814	3,072,153	21,609	39,420	34,944	32,129	7,717 <sup>R</sup>	2,942	2.3	*
Natural Gas.....	182,957	2,164,830	1,138	1,934	2,857	25,316	34,394	13,923	0.1	*
Nuclear.....	57,787,051	66,461,535	13,179,236	13,594,705	12,619,098	13,993,379	- <sup>R</sup>	-	32.9	-
Hydroelectric.....	2,582,002	1,683,697	776,727	1,166,959	1,745,193	1,666,727	1,016,202 <sup>R</sup>	1,294,569	1.5	0.6
Pumped Storage.....	-879,249	-1,240,153	-207,836	-201,635	-246,761	-214,491	- <sup>R</sup>	-	-0.5	-
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>9,940,465</b>	<b>16,509,604</b>	<b>168,942,625</b>	<b>173,785,635</b>	<b>176,250,070</b>	<b>180,758,496</b>	<b>217,032,812<sup>R</sup></b>	<b>217,500,161</b>	<b>5.7</b>	<b>99.4</b>
Coal.....	4,680,884	9,535,002	98,037,356	97,970,580	100,065,761	98,783,678	120,938,406 <sup>R</sup>	122,548,593	2.7	56.0
Petroleum.....	640,708	575,446	3,540,978	2,693,525	4,500,393	4,090,785	4,957,670 <sup>R</sup>	1,569,837	0.4	0.7
Natural Gas.....	2,650,925	2,761,353	3,035,159	6,713,603	5,515,680	9,803,647	10,771,248	13,525,817	1.5	6.2
Other Gases.....	841,604	781,665	613,137	568,725	508,176	581,246	511,038	507,404	0.5	0.2
Nuclear.....	-	-	60,551,561	62,494,225	61,741,764	63,465,253	76,289,432 <sup>R</sup>	75,297,632	-	34.4
Hydroelectric.....	287,190	346,510	873,277	1,043,604	1,601,074	1,488,611	1,215,977 <sup>R</sup>	1,549,573	0.2	0.7
Other Renewables.....	838,422	2,464,348	1,896,196	2,062,494	2,097,618	2,276,584	2,329,467	2,477,869	0.5	1.1
Pumped Storage.....	-	-	-407,614	-456,119	-492,233	-471,393	-711,041 <sup>R</sup>	-698,177	-	-0.3
Other.....	732	45,280	802,575	694,998	711,838	740,086	730,615 <sup>R</sup>	721,613	*	0.3
<b>Total Electric Industry.....</b>	<b>175,623,311</b>	<b>185,451,311</b>	<b>196,576,591</b>	<b>204,322,878</b>	<b>206,349,514</b>	<b>214,658,500</b>	<b>218,091,125</b>	<b>218,811,595</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	106,677,155	106,334,647	111,900,448	113,906,440	116,009,874	117,180,622	120,938,406	122,548,593	60.7	56.0
Petroleum.....	4,654,522	3,647,599	3,562,587	2,732,945	4,535,337	4,122,914	4,965,387	1,572,779	2.7	0.7
Natural Gas.....	2,833,882	4,926,183	3,036,297	6,715,537	5,518,537	9,828,963	10,805,642	13,539,740	1.6	6.2
Other Gases.....	841,604	781,665	613,137	568,725	508,176	581,246	511,038	507,404	0.5	0.2
Nuclear.....	57,787,051	66,461,535	73,730,797	76,088,930	74,360,862	77,458,632	76,289,432	75,297,632	32.9	34.4
Hydroelectric.....	2,869,192	2,030,207	1,650,004	2,210,563	3,346,267	3,155,338	2,232,179	2,844,142	1.6	1.3
Other Renewables.....	838,422	2,464,348	1,896,196	2,062,494	2,097,618	2,276,584	2,329,467	2,477,869	0.5	1.1
Pumped Storage.....	-879,249	-1,240,153	-615,450	-657,754	-738,994	-685,884	-711,041	-698,177	-0.5	-0.3
Other.....	732	45,280	802,575	694,998	711,838	740,086	730,615 <sup>R</sup>	721,613	*	0.3

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
<b>Pennsylvania</b>								
Coal (cents per million Btu)	152	136	121	125	122	137	159	172
Average heat value (Btu per pound)	12,241	12,315	11,240	12,111	11,733	11,615	11,741	11,459
Average sulfur Content (percent)	2.16	2.12	2.12	1.95	1.95	2.00	1.94	2.09
Petroleum (cents per million Btu)	322	224	373	464	467	451	746	762
Average heat value (Btu per gallon)	140,462	128,574	146,429	145,976	144,660	144,343	146,174	139,310
Average sulfur Content (percent)	1.27	2.00	0.46	0.50	1.35	1.42	1.07	1.87
Natural Gas (cents per million Btu)	295	198	851	390	625	723	990	772
Average heat value (Btu per cubic foot)	1,032	1,030	1,020	1,036	1,038	1,033	1,033	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
<b>Pennsylvania</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	1,169	1,051	945	861	888	904	994	819
Petroleum.....	68	50	32	15	18	21	20	17
Natural Gas.....	*	*	*	*	*	*	*	*
Other.....	2	3	3	4	3	3	4	3
Total.....	1,240	1,104	980	880	910	929	1,019	839
<b>Nitrogen Oxide .....</b>								
Coal.....	435	325	200	203	161	160	161	156
Petroleum.....	12	8	14	6	7	9	10	7
Natural Gas.....	5	6	5	6	5	4	4	4
Other.....	2	5	11	9	8	9	11	9
Total.....	453	344	230	224	182	182	186	176
<b>Carbon Dioxide .....</b>								
Coal.....	100,030	102,040	105,098	110,970	110,392	111,398	115,163	116,964
Petroleum.....	6,178	4,399	3,634	2,956	4,442	4,117	5,194	1,401
Natural Gas.....	1,886	3,004	2,018	3,572	3,026	4,964	5,183	6,270
Other Renewables.....	183	1,102	1,296	1,162	1,212	1,178	1,172	1,228
Total.....	108,277	110,546	112,046	118,660	119,072	121,657	126,713	125,864

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
<b>Pennsylvania</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential.....	38,164	42,802	46,030	48,730	49,651	50,663	53,661	51,790	33.3	35.4
Commercial.....	29,159	34,544	40,553	42,632	43,218	44,355	45,782	45,624	25.4	31.2
Industrial.....	45,992	47,528	47,383	47,090	46,773	47,659	47,950	47,920	40.1	32.8
Other.....	1,435	1,377	1,306	1,368	NA	NA	NA	NA	1.3	NA
Transportation.....	NA	NA	NA	NA	727	823	880	816	NA	0.6
All Sectors.....	114,751	126,251	135,272	139,820	140,369	143,501	148,273	146,150	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential.....	3,519	4,161	4,454	4,747	4,760	4,853	5,289	5,359	40.1	42.3
Commercial.....	2,360	2,877	3,497	3,623	3,724	3,774	3,890	4,081	26.9	32.2
Industrial.....	2,748	2,813	2,731	2,747	2,715	2,799	3,018	3,179	31.3	25.1
Other.....	155	155	150	159	NA	NA	NA	NA	1.8	NA
Transportation.....	NA	NA	NA	NA	57	60	64	61	NA	0.5
All Sectors.....	8,782	10,006	10,832	11,276	11,256	11,486	12,261	12,680	100.0	100.0
<b>Average Retail Prices (cents/KWh) .....</b>										
Residential.....	9.22	9.72	9.68	9.74	9.59	9.58	9.86	10.35	NA	NA
Commercial.....	8.09	8.33	8.62	8.50	8.62	8.51	8.50	8.94	NA	NA
Industrial.....	5.97	5.92	5.76	5.83	5.80	5.87	6.29	6.63	NA	NA
Other.....	10.80	11.29	11.46	11.59	NA	NA	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	7.78	7.32	7.22	7.45	NA	NA
All Sectors.....	7.65	7.93	8.01	8.06	8.02	8.00	8.27	8.68	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	11	35	NA	13	NA	16	6	81
Number of Retail Customers	5,438,241	83,262	NA	213,521	NA	149,722	NA	5,884,746
Retail Sales (thousand megawatthours)	133,267	1,470	NA	2,507	NA	8,906	NA	146,150
Percentage of Retail Sales	91.18	1.01	NA	1.72	NA	6.09	NA	100.00
Revenue from Retail Sales (million dollars)	11,546	139	NA	261	NA	596	137	12,680
Percentage of Revenue	91.06	1.10	NA	2.06	NA	4.70	1.08	100.00
Average Retail Price (cents/kWh)	8.66	9.46	NA	10.41	NA	6.70	1.54	8.68

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
<b>Supply</b>								
<b>Generation</b>								
Electric Utilities	165,683	168,942	27,634	30,537	30,099	33,900	1,058	1,311
Independent Power Producers	784	4,161	158,605	164,018	165,678	170,336	205,816	205,075
Combined Heat and Power, Electric	4,587	7,129	6,171	5,718	6,774	6,676	7,629	8,854
<b>Electric Power Sector Generation Subtotal</b>	<b>171,054</b>	<b>180,232</b>	<b>192,410</b>	<b>200,274</b>	<b>202,551</b>	<b>210,912</b>	<b>214,503</b>	<b>215,240</b>
Combined Heat and Power, Commercial	229	385	405	443	399	414	408	400
Combined Heat and Power, Industrial	4,341	4,835	3,762	3,606	3,399	3,332	3,181	3,172
<b>Industrial and Commercial Generation Subtotal</b>	<b>4,569</b>	<b>5,220</b>	<b>4,167</b>	<b>4,049</b>	<b>3,798</b>	<b>3,746</b>	<b>3,589</b>	<b>3,571</b>
<b>Total Net Generation</b>	<b>175,623</b>	<b>185,451</b>	<b>196,577</b>	<b>204,323</b>	<b>206,350</b>	<b>214,659</b>	<b>218,091</b>	<b>218,812</b>
<b>Total International Imports</b>	-	23	-	*	18	86	30	32
<b>Total Supply</b>	<b>175,623</b>	<b>185,474</b>	<b>196,577</b>	<b>204,323</b>	<b>206,367</b>	<b>214,745</b>	<b>218,122</b>	<b>218,843</b>
<b>Disposition</b>								
<b>Retail Sales</b>								
Full Service Providers	114,751	126,251	115,913	128,688	127,964	130,848	137,221	137,244
Energy-Only Providers	-	-	19,359	11,132	12,405	12,653	11,052	8,906
<b>Total Electric Industry Retail Sales</b>	<b>114,751</b>	<b>126,251</b>	<b>135,272</b>	<b>139,820</b>	<b>140,369</b>	<b>143,501</b>	<b>148,273</b>	<b>146,150</b>
<b>Direct Use</b>	<b>3,739</b>	<b>4,979</b>	<b>4,328</b>	<b>4,422</b>	<b>4,478</b>	<b>4,483</b>	<b>3,287</b>	<b>2,872</b>
<b>Total International Exports</b>	-	-	-	96	100	263	317	127
<b>Estimated Losses</b>	<b>8,604</b>	<b>9,584</b>	<b>9,237</b>	<b>10,474</b>	<b>9,131</b>	<b>11,007</b>	<b>11,660</b>	<b>11,264</b>
<b>Total Disposition</b>	<b>127,094</b>	<b>140,814</b>	<b>148,837</b>	<b>154,813</b>	<b>154,079</b>	<b>159,254</b>	<b>163,537</b>	<b>160,413</b>
<b>Net Interstate Trade</b>	<b>48,530</b>	<b>44,660</b>	<b>47,740</b>	<b>49,511</b>	<b>52,289</b>	<b>55,491</b>	<b>54,584</b>	<b>58,430</b>
<b>Net Trade Index (ratio)</b>	<b>1.38</b>	<b>1.32</b>	<b>1.32</b>	<b>1.32</b>	<b>1.34</b>	<b>1.35</b>	<b>1.33</b>	<b>1.36</b>

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.