

**Table 1. 2006 Summary Statistics**

Item	Value	U.S. Rank
<b>West Virginia</b>		
NERC Region(s).....		<b>RFC</b>
Primary Energy Source.....		<b>Coal</b>
<b>Net Summer Capacity (megawatts) .....</b>	<b>16,443</b>	<b>24</b>
Electric Utilities.....	11,975	21
Independent Power Producers & Combined Heat and Power.....	4,468	21
<b>Net Generation (megawatthours).....</b>	<b>93,815,804</b>	<b>18</b>
Electric Utilities.....	68,163,826	16
Independent Power Producers & Combined Heat and Power.....	25,651,978	12
<b>Emissions (thousand metric tons) .....</b>		
Sulfur Dioxide .....	428	8
Nitrogen Oxide.....	140	7
Carbon Dioxide.....	85,075	10
Sulfur Dioxide (lbs/MWh) .....	10.1	5
Nitrogen Oxide (lbs/MWh) .....	3.3	15
Carbon Dioxide (lbs/MWh).....	1,999	6
<b>Total Retail Sales (megawatthours) .....</b>	<b>32,312,126</b>	<b>34</b>
Full Service Provider Sales (megawatthours) .....	32,312,126	34
<b>Direct Use (megawatthours) .....</b>	<b>1,390,780</b>	<b>24</b>
<b>Average Retail Price (cents/kWh).....</b>	<b>5.04</b>	<b>50</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>West Virginia</b>			
1. John E Amos.....	Coal	Appalachian Power Co	2,900
2. Harrison Power Station.....	Coal	Allegheny Energy Supply Co LLC	1,945
3. Mitchell.....	Coal	Ohio Power Co	1,600
4. Mt Storm.....	Coal	Virginia Electric & Power Co	1,581
5. Mountaineer.....	Coal	Appalachian Power Co	1,300
6. Pleasants Power Station.....	Coal	Allegheny Energy Supply Co LLC	1,278
7. Fort Martin Power Station .....	Coal	Monongahela Power Co	1,107
8. Philip Sporn .....	Coal	Appalachian Power Co	1,020
9. Ceredo Generating Station .....	Gas	Appalachian Power Co	675
10. Kammer .....	Coal	Ohio Power Co	600

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
<b>West Virginia</b>						
1. Appalachian Power Co.....	Investor-Owned	16,495,201	5,541,907	3,586,476	7,366,818	-
2. Monongahela Power Co.....	Investor-Owned	10,351,272	3,280,823	2,551,221	4,514,878	4,350
3. The Potomac Edison Co.....	Investor-Owned	3,123,380	1,596,088	734,520	792,772	-
4. Wheeling Power Co.....	Investor-Owned	2,071,131	419,410	420,929	1,230,792	-
5. Harrison Rural Elec Assn, Inc.....	Cooperative	65,492	50,768	14,724	-	-
Total Sales, Top Five Providers.....		32,106,476	10,888,996	7,307,870	13,905,260	4,350
Percent of Total State Sales.....		99	99	99	100	100

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>West Virginia</b>										
<b>Electric Utilities.....</b>	<b>14,435</b>	<b>14,451</b>	<b>10,188</b>	<b>10,166</b>	<b>10,164</b>	<b>10,206</b>	<b>10,890<sup>R</sup></b>	<b>11,975</b>	<b>96.8</b>	<b>72.8</b>
Coal.....	14,315	14,381	10,126	10,108	10,108	10,108	10,118	11,225	96.0	68.3
Petroleum.....	12	12	12	12	12	12	12	12	0.1	0.1
Natural Gas.....	-	-	-	-	-	-	696 <sup>R</sup>	675	-	4.1
Hydroelectric.....	108	58	50	46	44	86	63	63	0.7	0.4
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>483</b>	<b>560</b>	<b>5,629</b>	<b>6,014</b>	<b>5,960</b>	<b>6,196</b>	<b>5,570<sup>R</sup></b>	<b>4,468</b>	<b>3.2</b>	<b>27.2</b>
Coal.....	307	384	4,577	4,608	4,608	4,615	4,615	3,520	2.1	21.4
Natural Gas.....	11	11	764	1,056	1,056	1,282	689 <sup>R</sup>	682	0.1	4.1
Other Gases.....	25	25	95	95	95	95	-	-	0.2	-
Hydroelectric.....	140	140	193	189	135	138	201	201	0.9	1.2
Other Renewables.....	-	-	-	66	66	66	66	66	-	0.4
<b>Total Electric Industry.....</b>	<b>14,918</b>	<b>15,011</b>	<b>15,817</b>	<b>16,180</b>	<b>16,124</b>	<b>16,402</b>	<b>16,460</b>	<b>16,443</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	14,622	14,765	14,703	14,716	14,716	14,723	14,733	14,745	98.0	89.7
Petroleum.....	12	12	12	12	12	12	12	12	0.1	0.1
Natural Gas.....	11	11	764	1,056	1,056	1,282	1,386	1,357	0.1	8.3
Other Gases.....	25	25	95	95	95	95	-	-	0.2	-
Hydroelectric.....	247	198	243	235	179	224	264	264	1.7	1.6
Other Renewables.....	-	-	-	66	66	66	66	66	-	0.4

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>West Virginia</b>										
<b>Electric Utilities.....</b>	<b>77,363,692</b>	<b>77,322,168</b>	<b>51,608,803</b>	<b>63,341,620</b>	<b>64,056,696</b>	<b>59,083,917</b>	<b>61,241,831</b>	<b>68,163,826</b>	<b>97.3</b>	<b>72.7</b>
Coal.....	76,635,718	76,690,297	51,110,900	62,801,799	63,499,194	58,508,159	60,581,576	67,391,989	96.3	71.8
Petroleum.....	274,419	197,097	256,951	278,679	210,060	231,515	173,196	132,400	0.3	0.1
Natural Gas.....	18,506	40,323	3,654	3,396	3,998	3,166	3,215	86,926	*	0.1
Hydroelectric.....	435,049	394,451	210,961	235,958	322,664	326,253	471,916	546,033	0.5	0.6
Other Renewables.....	-	-	15,527	5,019	3,728	2,071	713	-	-	-
Other.....	-	-	10,810	16,769	17,052	12,753	11,215	6,478	-	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>2,175,852</b>	<b>3,215,259</b>	<b>30,227,922</b>	<b>31,420,133</b>	<b>30,654,858</b>	<b>30,665,645</b>	<b>32,384,454<sup>R</sup></b>	<b>25,651,978</b>	<b>2.7</b>	<b>27.3</b>
Coal.....	1,007,648	2,023,922	29,103,504	30,149,518	28,969,789	29,080,683	30,837,980	24,085,344	1.3	25.7
Petroleum.....	51,256	15,681	21,725	18,908	37,837	36,100	50,356	42,486	0.1	*
Natural Gas.....	71,557	172,551	272,211	237,745	273,839	249,602	282,180 <sup>R</sup>	271,194	0.1	0.3
Other Gases.....	174,182	204,663	89,500	174,598	169,782	146,043	84,396	52,797	0.2	0.1
Hydroelectric.....	860,002	798,228	740,982	829,778	1,033,367	992,026	975,650	1,026,400	1.1	1.1
Other Renewables.....	-	-	-	9,586	170,242	161,191	153,892	173,757	-	0.2
Other.....	11,207	214	-	-	-	-	-	-	*	-
<b>Total Electric Industry.....</b>	<b>79,539,544</b>	<b>80,537,427</b>	<b>81,836,725</b>	<b>94,761,753</b>	<b>94,711,554</b>	<b>89,749,562</b>	<b>93,626,285<sup>R</sup></b>	<b>93,815,804</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	77,643,366	78,714,219	80,214,404	92,951,317	92,468,983	87,588,842	91,419,556	91,477,333	97.6	97.5
Petroleum.....	325,675	212,778	278,676	297,587	247,897	267,615	223,552	174,886	0.4	0.2
Natural Gas.....	90,063	212,874	275,865	241,141	277,837	252,768	285,395 <sup>R</sup>	358,120	0.1	0.4
Other Gases.....	174,182	204,663	89,500	174,598	169,782	146,043	84,396	52,797	0.2	0.1
Hydroelectric.....	1,295,051	1,192,679	951,943	1,065,736	1,356,031	1,318,279	1,447,566	1,572,433	1.6	1.7
Other Renewables.....	-	-	15,527	14,605	173,970	163,262	154,605	173,757	-	0.2
Other.....	11,207	214	10,810	16,769	17,052	12,753	11,215	6,478	*	*

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>West Virginia</b>								
Coal (cents per million Btu)	147	127	125	121	125	135	W	167
Average heat value (Btu per pound)	12,452	12,418	12,085	12,103	12,166	12,061	11,976	11,967
Average sulfur Content (percent)	1.89	1.98	1.19	1.71	1.69	1.75	1.78	1.79
Petroleum (cents per million Btu)	572	439	666	543	725	785	959	W
Average heat value (Btu per gallon)	139,293	138,988	137,143	122,840	140,526	140,943	141,667	143,471
Average sulfur Content (percent)	0.10	0.08	0.07	0.24	0.24	0.15	0.62	0.86
Natural Gas (cents per million Btu)	513	358	646	385	633	633	859	867
Average heat value (Btu per cubic foot)	1,000	1,000	1,020	1,026	1,024	1,028	1,029	1,035

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>West Virginia</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	876	754	618	478	506	446	438	427
Petroleum.....	1	*	3	1	*	*	1	1
Natural Gas.....	*	*	*	*	*	*	*	*
Other.....	-	-	*	*	*	*	*	*
Total.....	878	755	622	478	507	447	440	428
<b>Nitrogen Oxide .....</b>								
Coal.....	305	275	274	207	193	159	147	139
Petroleum.....	1	*	1	*	*	*	*	*
Natural Gas.....	*	1	1	3	*	*	*	*
Other.....	-	*	1	3	1	*	*	*
Total.....	306	276	277	213	194	160	148	140
<b>Carbon Dioxide .....</b>								
Coal.....	70,830	73,078	74,136	85,981	84,958	81,244	84,058	84,442
Petroleum.....	352	213	182	212	189	223	281	292
Natural Gas.....	169	513	495	353	416	584	444	334
Other Renewables.....	-	-	11	13	14	13	12	8
Total.....	71,352	73,805	74,824	86,558	85,578	82,064	84,795	85,075

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>West Virginia</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential.....	7,578	9,166	9,828	10,444	10,473	10,756	11,384	11,014	32.8	34.1
Commercial.....	4,991	5,852	6,786	7,039	7,136	7,217	7,452	7,377	21.6	22.8
Industrial.....	10,469	10,867	10,978	10,902	10,687	10,942	11,312	13,916	45.3	43.1
Other.....	94	92	78	78	NA	NA	NA	NA	0.4	NA
Transportation.....	NA	NA	NA	NA	NA	4	4	4	NA	*
All Sectors.....	23,132	25,977	27,669	28,463	28,297	28,919	30,152	32,312	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential.....	447	596	616	651	654	670	706	700	40.8	43.0
Commercial.....	267	343	369	381	389	394	412	413	24.4	25.3
Industrial.....	373	438	410	415	408	419	435	516	34.1	31.7
Other.....	8	9	8	8	NA	NA	NA	NA	0.7	NA
Transportation.....	NA	NA	NA	NA	NA	*	*	*	NA	*
All Sectors.....	1,095	1,386	1,403	1,455	1,450	1,483	1,554	1,629	100.0	100.0
<b>Average Retail Prices (cents/KWh) .....</b>										
Residential.....	5.90	6.50	6.26	6.23	6.24	6.23	6.21	6.35	NA	NA
Commercial.....	5.36	5.86	5.44	5.41	5.45	5.46	5.53	5.59	NA	NA
Industrial.....	3.56	4.03	3.74	3.81	3.81	3.83	3.85	3.71	NA	NA
Other.....	8.19	9.36	10.36	10.01	NA	NA	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	5.70	6.08	5.86	NA	NA
All Sectors.....	4.73	5.34	5.07	5.11	5.13	5.13	5.15	5.04	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	2	NA	3	NA	NA	NA	16
Number of Retail Customers	984,598	3,506	NA	9,684	NA	NA	NA	997,788
Retail Sales (thousand megawatthours)	32,137	69	NA	106	NA	NA	NA	32,312
Percentage of Retail Sales	99.46	0.21	NA	0.33	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	1,614	5	NA	10	NA	NA	NA	1,629
Percentage of Revenue	99.07	0.29	NA	0.64	NA	NA	NA	100.00
Average Retail Price (cents/kWh)	5.02	6.75	NA	9.90	NA	NA	NA	5.04

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>West Virginia</b>								
<b>Supply</b>								
<b>Generation</b>								
Electric Utilities	77,364	77,322	51,609	63,342	64,057	59,084	61,242	68,164
Independent Power Producers	250	936	28,458	29,373	28,429	28,498	30,556	23,959
Combined Heat and Power, Electric	-	377	306	409	446	465	467	470
<b>Electric Power Sector Generation Subtotal</b>	<b>77,614</b>	<b>78,635</b>	<b>80,373</b>	<b>93,123</b>	<b>92,932</b>	<b>88,047</b>	<b>92,265</b>	<b>92,593</b>
Combined Heat and Power, Industrial	1,925	1,902	1,464	1,639	1,780	1,703	1,361	1,223
<b>Industrial and Commercial Generation Subtotal</b>	<b>1,925</b>	<b>1,902</b>	<b>1,464</b>	<b>1,639</b>	<b>1,780</b>	<b>1,703</b>	<b>1,361</b>	<b>1,223</b>
<b>Total Net Generation</b>	<b>79,540</b>	<b>80,537</b>	<b>81,837</b>	<b>94,762</b>	<b>94,712</b>	<b>89,750</b>	<b>93,626</b>	<b>93,816</b>
<b>Total Supply</b>	<b>79,540</b>	<b>80,537</b>	<b>81,837</b>	<b>94,762</b>	<b>94,712</b>	<b>89,750</b>	<b>93,626</b>	<b>93,816</b>
<b>Disposition</b>								
<b>Retail Sales</b>								
Full Service Providers	23,132	25,977	27,669	28,463	28,275	28,919	30,131	32,312
Facility Direct Retail Sales	-	-	-	-	22	-	22	-
<b>Total Electric Industry Retail Sales</b>	<b>23,132</b>	<b>25,977</b>	<b>27,669</b>	<b>28,463</b>	<b>28,297</b>	<b>28,919</b>	<b>30,152</b>	<b>32,312</b>
<b>Direct Use</b>	<b>1,926</b>	<b>1,984</b>	<b>1,755</b>	<b>1,793</b>	<b>1,816</b>	<b>1,818</b>	<b>1,360</b>	<b>1,391</b>
<b>Estimated Losses</b>	<b>1,734</b>	<b>1,972</b>	<b>1,787</b>	<b>1,982</b>	<b>1,742</b>	<b>1,795</b>	<b>2,581</b>	<b>3,002</b>
<b>Total Disposition</b>	<b>26,792</b>	<b>29,933</b>	<b>31,212</b>	<b>32,239</b>	<b>31,855</b>	<b>32,532</b>	<b>34,093</b>	<b>36,705</b>
<b>Net Interstate Trade</b>	<b>52,747</b>	<b>50,605</b>	<b>50,625</b>	<b>62,523</b>	<b>62,857</b>	<b>57,218</b>	<b>59,533</b>	<b>57,111</b>
<b>Net Trade Index (ratio)</b>	<b>2.97</b>	<b>2.69</b>	<b>2.62</b>	<b>2.94</b>	<b>2.97</b>	<b>2.76</b>	<b>2.75</b>	<b>2.56</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.