

Table 1. 2003 Summary Statistics

Item	Value	U.S. Rank
West Virginia		
NERC Region(s).....		ECAR
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	16,124	24
Electric Utilities	10,164	23
Independent Power Producers & Combined Heat and Power	5,960	18
Net Generation (megawatthours).....	94,711,554	15
Electric Utilities	64,056,696	16
Independent Power Producers & Combined Heat and Power	30,654,858	10
Emissions (thousand metric tons)		
Sulfur Dioxide	508	6
Nitrogen Oxide	194	5
Carbon Dioxide	85,676	7
Sulfur Dioxide (lbs/MWh).....	11.8	3
Nitrogen Oxide (lbs/MWh).....	4.5	5
Carbon Dioxide (lbs/MWh).....	1,994	10
Total Retail Sales (megawatthours).....	28,296,993	35
Full Service Provider Sales (megawatthours).....	28,296,993	35
Direct Use (megawatthours).....	1,816,264	23
Average Retail Price (cents/kWh).....	5.13	49

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2003

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
West Virginia			
1. John E Amos	Petroleum, Coal	Appalachian Power Co	2,900
2. Harrison Power Station.....	Gas, Coal	Allegheny Energy Supply Co LLC	1,933
3. Mitchell.....	Petroleum, Coal	Ohio Power Co	1,600
4. Mt Storm	Petroleum, Coal	Dominion Virginia Power	1,581
5. Mountaineer.....	Petroleum, Coal	Appalachian Power Co	1,300
6. Pleasants Power Station	Gas, Coal	Allegheny Energy Supply Co LLC	1,278
7. Fort Martin Power Station	Petroleum, Coal	Allegheny Energy Supply Co LLC	1,107
8. Philip Sporn.....	Petroleum, Coal	Appalachian Power Co	1,020
9. Kammer	Petroleum, Coal	Ohio Power Co	600
10. Ceredo Generating Station	Gas	Orion Power Operating Services	457

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
West Virginia						
1. Appalachian Power Co.....	Investor-Owned	12,970,334	5,321,721	3,596,536	4,052,077	0
2. Monongahela Power Co.....	Investor-Owned	10,327,815	3,131,350	2,388,251	4,808,214	0
3. Potomac Edison Co.....	Investor-Owned	2,858,398	1,440,177	677,463	740,758	0
4. Wheeling Power Co.....	Investor-Owned	1,857,555	413,557	391,616	1,052,382	0
5. Harrison Rural Elec Assn, Inc.....	Cooperative	58,500	49,520	8,980	0	0
Total Sales, Top Five Providers.....		28,072,602	10,356,325	7,062,846	10,653,431	0
Percent of Total State Sales		99	99	99	100	0

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
West Virginia							
Electric Utilities	14,510	14,495	10,164	-3.9	95.7	96.3	63.0
Coal.....	14,393	14,381	10,108	-3.9	95.0	95.5	62.7
Petroleum.....	12	12	12	.0	.1	.1	.1
Hydroelectric.....	105	102	44	-9.2	.7	.7	.3
Independent Power Producers and Combined							
Heat and Power	648	561	5,960	28.0	4.3	3.7	37.0
Coal.....	472	385	4,608	28.8	3.1	2.6	28.6
Natural Gas.....	0	0	765	NM	.0	.0	4.7
Other Gases.....	25	25	95	16.0	.2	.2	.6
Dual Fired.....	11	11	292	44.0	.1	.1	1.8
Hydroelectric.....	140	140	134	-5	.9	.9	.8
Other Renewables.....	0	0	66	NM	.0	.0	.4
Total Electric Industry	15,158	15,055	16,124	.7	100.0	100.0	100.0
Coal.....	14,865	14,765	14,716	-1	98.1	98.1	91.3
Petroleum.....	12	12	12	.0	.1	.1	.1
Natural Gas.....	0	0	764	NM	.0	.0	4.7
Other Gases.....	25	25	95	16.0	.2	.2	.6
Dual Fired.....	11	11	292	44.0	.1	.1	1.8
Hydroelectric.....	245	242	179	-3.4	1.6	1.6	1.1
Other Renewables.....	0	0	66	NM	.0	.0	.4

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
West Virginia							
Electric Utilities	77,702,716	89,605,447	64,056,696	-2.1	95.4	96.5	67.6
Coal.....	77,063,151	89,007,644	63,499,194	-2.1	94.6	95.9	67.0
Petroleum.....	251,487	194,277	210,060	-2.0	.3	.2	.2
Natural Gas.....	25,075	42,195	3,998	-18.5	*	*	*
Hydroelectric.....	363,003	361,331	322,664	-1.3	.4	.4	.3
Other Renewables.....	0	0	20,780	NM	.0	.0	*
Independent Power Producers and Combined							
Heat and Power	3,726,826	3,216,739	30,654,858	26.4	4.6	3.5	32.4
Coal.....	2,565,415	2,205,711	28,969,789	30.9	3.1	2.4	30.6
Petroleum.....	20,403	6,668	37,837	7.1	*	*	*
Natural Gas.....	145,464	142,278	273,839	7.3	.2	.2	.3
Other Gases.....	212,708	136,854	169,782	-2.5	.3	.1	.2
Hydroelectric.....	782,632	725,013	1,033,367	3.1	1.0	.8	1.1
Other Renewables.....	0	0	170,242	NM	.0	.0	.2
Other.....	204	215	0	NM	.0	.0	.0
Total Electric Industry	81,429,542	92,822,186	94,711,554	1.7	100.0	100.0	100.0
Coal.....	79,628,566	91,213,355	92,468,983	1.7	97.8	98.3	97.6
Petroleum.....	271,890	200,945	247,897	-1.0	.3	.2	.3
Natural Gas.....	170,539	184,473	277,837	5.6	.2	.2	.3
Other Gases.....	212,708	136,854	169,782	-2.5	.3	.1	.2
Hydroelectric.....	1,145,635	1,086,344	1,356,031	1.9	1.4	1.2	1.4
Other Renewables.....	0	0	191,022	NM	.0	.0	.2
Other.....	204	215	0	NM	.0	.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)
West Virginia				
Coal (cents per million Btu).....	139.2	122.2	124.6	-1.2
Average heat value (Btu per pound).....	12,468	12,305	12,166	-.3
Average sulfur Content (percent).....	1.9	1.9	1.7	-1.1
Petroleum (cents per million Btu).....	442.4	370.9	724.6	5.6
Average heat value (Btu per gallon).....	139,324	139,186	140,526	.1
Average sulfur Content (percent).....	.1	.1	.2	8.3
Natural Gas (cents per million Btu).....	400.1	351.4	632.7	5.2
Average heat value (Btu per cubic foot).....	1,000	1,000	1,024	.3

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)
West Virginia				
Sulfur Dioxide				
Coal.....	990	596	507	-7.2
Petroleum.....	*	*	*	1.2
Natural Gas.....	—	—	—	NM
Other.....	—	—	*	NM
Total.....	991	596	508	-7.2
Nitrogen Oxide				
Coal.....	284	277	193	-4.2
Petroleum.....	*	*	*	-7.8
Gas.....	1	1	*	-11.1
Other.....	—	—	*	NM
Total.....	285	278	194	-4.2
Carbon Dioxide				
Coal.....	73,357	82,673	85,056	1.7
Petroleum.....	253	169	189	-3.2
Gas.....	374	542	416	1.2
Geothermal.....	—	—	—	NM
Other.....	—	—	14	NM
Total.....	73,984	83,384	85,676	1.6

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
West Virginia							
Retail Sales (thousand megawatthours)							
Residential.....	8,663	9,053	10,473	2.1	35.0	34.1	37.0
Commercial.....	5,539	6,208	7,136	2.8	22.4	23.4	25.2
Industrial.....	10,482	11,161	10,687	.2	42.3	42.1	37.8
Other.....	92	89	NA	NM	.4	.3	NA
Total.....	24,776	26,511	28,297	1.5	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential.....	551	570	654	1.9	42.4	42.4	45.1
Commercial.....	323	345	389	2.1	24.8	25.6	26.8
Industrial.....	417	422	408	-.2	32.1	31.4	28.1
Other.....	9	8	NA	NM	.7	.6	NA
Total.....	1,300	1,345	1,450	1.2	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential.....	6.36	6.29	6.24	-.2	NA	NA	NA
Commercial.....	5.83	5.56	5.45	-.8	NA	NA	NA
Industrial.....	3.98	3.78	3.81	-.5	NA	NA	NA
Other.....	9.44	9.39	NA	NM	NA	NA	NA
Total.....	5.25	5.07	5.13	-.3	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	
West Virginia								
Number of Entities.....	11	2	NA	3	1	NA	NA	17
Number of Retail Customers.....	961,675	3,516	NA	9,318	1	NA	NA	974,510
Retail Sales (thousand megawatthours).....	28,109	71	NA	96	22	NA	NA	28,297
Percentage of Retail Sales.....	99.33	.25	NA	.34	.08	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	1,436	4	NA	9	1	NA	NA	1,450
Percentage of Revenue.....	99.04	.30	NA	.59	.07	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.11	6.24	NA	8.94	4.35	NA	NA	5.13

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.