

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
West Virginia		
NERC Region(s)		ECAR
Primary Energy Source		Coal
Net Summer Capability (megawatts)	16,180	23
Electric Utilities	10,166	24
Independent Power Producers & Combined Heat and Power	6,014	14
Net Generation (megawatthours)	94,761,752	17
Electric Utilities	63,341,620	16
Independent Power Producers & Combined Heat and Power	31,420,132	10
Emissions (thousand short tons)		
Sulfur Dioxide	523	6
Nitrogen Oxide	243	5
Carbon Dioxide	95,170	8
Sulfur Dioxide/sq. mile	22	4
Nitrogen Oxide/sq. mile	10	3
Carbon Dioxide/sq. mile	3,951	2
Utility and ESP Retail Electricity Sales (megawatthours)	28,463,122	35
Utility Retail Electricity Sales (megawatthours)	28,463,122	35
Direct Use (megawatthours)	-53,279	46
Average Retail Price (cents/kWh)	5.11	49

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

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

See footnotes at end of tables.

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

Utility	All Sectors	Residential	Commercial	Industrial	Other
West Virginia					
A. Appalachian Power Company	13,436,666	5,376,575	3,580,274	4,444,482	35,335
B. Monongahela Power Company	10,264,625	3,140,813	2,351,449	4,748,799	23,564
C. The Potomac Edison Company	2,755,273	1,348,265	653,300	749,232	4,476
D. Wheeling Power Company	1,747,850	412,183	384,006	945,546	6,115
E. Harrison Rural Elec Assn, Inc.	58,830	49,060	4,330	2,990	2,450
Total	28,263,244	10,326,896	6,973,359	10,891,049	71,940
Percentage of Utility Sales	99	99	99	100	92

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
West Virginia							
Coal	14,328	14,381	10,108	-3.8	94.8	95.6	62.5
Petroleum	12	12	12	.0	.1	.1	.1
Hydroelectric	108	98	46	-9.1	.7	.6	.3
Total Electric Utilities	14,448	14,491	10,166	-3.8	95.6	96.3	62.8
Coal	495	384	4,608	28.1	3.3	2.6	28.5
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	44.2	.1	.1	1.8
Hydroelectric	140	140	189	3.4	.9	.9	1.2
Other Renewables	0	0	66	NM	.0	.0	.4
Total IPP's & Combined Heat and Power	671	560	6,014	27.6	4.4	3.7	37.2
Coal	14,823	14,765	14,716	-.1	98.0	98.1	91.0
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	44.2	.1	.1	1.8
Hydroelectric	247	238	235	-6	1.6	1.6	1.5
Other Renewables	0	0	66	NM	.0	.0	.4
Total Electric Industry	15,118	15,051	16,180	.8	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
West Virginia							
Coal	70,491,516	87,714,945	62,801,799	-1.3	94.3	95.8	66.3
Petroleum	210,975	170,969	278,679	3.1	.3	.2	.3
Natural Gas	13,461	21,355	3,396	-14.2	.0	.0	.0
Hydroelectric	362,117	377,192	235,958	-4.6	.5	.4	.2
Other Renewables	0	0	21,788	NM	.0	.0	.0
Total Electric Utilities	71,078,069	88,284,461	63,341,620	-1.3	95.1	96.5	66.8
Coal	2,477,147	2,130,584	30,149,517	32.0	3.3	2.3	31.8
Petroleum	25,959	18,629	18,908	-3.5	.0	.0	.0
Natural Gas	144,782	195,391	237,744	5.7	.2	.2	.3
Other Gases	271,186	138,004	174,598	-4.8	.4	.2	.2
Hydroelectric	751,984	761,577	829,778	1.1	1.0	.8	.9
Other Renewables	0	0	9,586	NM	.0	.0	.0
Other	36	231	0	NM	.0	.0	.0
Total IPP's & Combined Heat and Power	3,671,094	3,244,416	31,420,132	26.9	4.9	3.5	33.2
Coal	72,968,663	89,845,529	92,951,316	2.7	97.6	98.2	98.1
Petroleum	236,934	189,598	297,587	2.6	.3	.2	.3
Natural Gas	158,243	216,746	241,140	4.8	.2	.2	.3
Other Gases	271,186	138,004	174,598	-4.8	.4	.2	.2
Hydroelectric	1,114,101	1,138,769	1,065,736	-.5	1.5	1.2	1.1
Other Renewables	0	0	31,374	NM	.0	.0	.0
Other	36	231	0	NM	.0	.0	.0
Total Electric Industry	74,749,163	91,528,877	94,761,752	2.7	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)
West Virginia				
Coal (2002 cents per million Btu)	158.1	127.2	120.6	-3.0
Average heat value (Btu per pound)	12,489	12,398	12,117	-.3
Average sulfur Content(percent)	1.9	2.0	1.7	-1.4
Petroleum (2002 cents per million Btu)	515.0	476.9	543.1	.6
Average heat value (Btu per gallon)	139,231	138,884	139,276	.0
Average sulfur Content(percent)2	.0	.2	2.0
Gas (2002 cents per million Btu)	485.5	344.4	385.4	-2.5
Average heat value (Btu per cubic foot)	1,000	1,000	1,036	.4

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)
West Virginia				
Sulfur Dioxide				
Coal	1,028	673	522	-7.3
Petroleum	*	1	1	5.5
Gas	*	*	*	10.7
Total	1,028	673	523	-7.2
Nitrogen Oxide				
Coal	285	339	233	-2.2
Petroleum	*	*	*	-5.5
Gas	9	5	9	.9
Other	0	0	0	NM
Total	294	344	243	-2.1
Carbon Dioxide				
Coal	72,987	89,358	94,544	2.9
Petroleum	190	151	187	-.2
Gas	300	220	440	4.3
Total	73,477	89,729	95,170	2.9

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
West Virginia							
Retail Sales (thousand megawatthours)							
Residential.....	8,682	9,027	10,444	2.1	35.5	34.4	36.7
Commercial.....	5,480	5,944	7,039	2.8	22.4	22.6	24.7
Industrial.....	10,187	11,180	10,902	.8	41.7	42.6	38.3
Other.....	92	96	78	-1.8	.4	.4	.3
Total.....	24,442	26,247	28,463	1.7	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	609	580	651	.7	42.9	42.9	44.8
Commercial.....	353	338	381	.8	24.8	25.0	26.2
Industrial.....	450	426	415	-.9	31.6	31.5	28.5
Other.....	9	9	8	-2.1	.7	.6	.5
Total.....	1,421	1,354	1,455	.3	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	7.02	6.43	6.23	-1.3	NA	NA	NA
Commercial.....	6.44	5.69	5.41	-1.9	NA	NA	NA
Industrial.....	4.41	3.81	3.81	-1.6	NA	NA	NA
Other.....	10.27	8.95	10.01	-.3	NA	NA	NA
Total.....	5.82	5.16	5.11	-1.4	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
West Virginia						
Number of Entities.....	8	7	0	1	0	16
Number of Retail Customers.....	48,879	913,870	0	5,916	0	968,665
Retail Sales (thousand megawatthours).....	1,842	26,563	0	59	0	28,463
Percentage of Retail Sales.....	6.47	93.32	.00	.21	.00	100.00
Revenue from Retail Sales (million 2002 dollars).....	90	1,359	0	5	0	1,455
Percentage of Revenue.....	6.20	93.44	.00	.36	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	4.89	5.12	.00	9.02	0	5.11

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 ".*".)