

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Wisconsin		
NERC Region(s).....		MAIN/MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	14,237	24
Electric Utilities	12,511	19
Independent Power Producers & Combined Heat and Power	1,726	32
Net Generation (megawatthours).....	58,431,438	24
Electric Utilities	54,773,666	19
Independent Power Producers & Combined Heat and Power	3,657,772	36
Emissions (thousand short tons)		
Sulfur Dioxide	219	18
Nitrogen Oxide.....	98	20
Carbon Dioxide.....	49,065	21
Sulfur Dioxide/sq. mile.....	4	24
Nitrogen Oxide/sq. mile.....	2	25
Carbon Dioxide/sq. mile.....	903	27
Utility and ESP Retail Electricity Sales (megawatthours).....	66,999,296	21
Utility Retail Electricity Sales (megawatthours)	66,999,296	21
Direct Use (megawatthours).....	2,641,816	17
Average Retail Price (cents/kWh).....	6.28	26

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Wisconsin			
1. Pleasant Prairie	Petroleum, Gas, Coal	Wisconsin Electric Power Co	1,226
2. South Oak Creek	Gas, Coal	Wisconsin Electric Power Co	1,153
3. Columbia.....	Petroleum, Coal	Wisconsin Power & Light Co	1,098
4. Point Beach.....	Petroleum, Nuclear	Wisconsin Electric Power Co	1,027
5. Edgewater.....	Petroleum, Other, Coal	Wisconsin Power & Light Co	836
6. Weston	Petroleum, Gas, Coal	Wisconsin Public Service Corp	545
7. Kewaunee.....	Nuclear	Wisconsin Public Service Corp	498
8. RockGen Energy Center.....	Petroleum, Gas	RockGen Energy LLC	462
9. Paris.....	Petroleum, Gas	Wisconsin Electric Power Co	400
10. Pulliam.....	Gas, Coal	Wisconsin Public Service Corp	389

See footnotes at end of tables.

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

Utility	All Sectors	Residential	Commercial	Industrial	Other
Wisconsin					
A. Wisconsin Electric Power Co	25,012,143	7,983,219	8,327,117	8,534,675	167,132
B. Wisconsin Public Service Corp.....	10,292,027	2,962,175	3,379,562	3,915,424	34,866
C. Wisconsin Power & Light Co.....	9,896,116	3,361,423	2,107,342	4,364,712	62,639
D. Northern States Power Company.....	5,623,050	1,818,662	1,025,215	2,741,386	37,787
E. Madison Gas & Electric Company	3,104,384	839,005	1,640,190	296,220	328,969
Total	53,927,720	16,964,484	16,479,426	19,852,417	631,393
Percentage of Utility Sales.....	80	79	86	78	85

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
Wisconsin							
Coal	7,276	7,389	7,186	-0.1	63.4	58.8	50.5
Petroleum	797	852	985	2.4	6.9	6.8	6.9
Natural Gas	104	71	340	14.1	.9	.6	2.4
Dual Fired	721	1,580	1,998	12.0	6.3	12.6	14.0
Nuclear	1,496	1,432	1,510	.1	13.0	11.4	10.6
Hydroelectric	440	460	425	-4	3.8	3.7	3.0
Other Renewables	104	61	66	-4.8	.9	.5	.5
Total Electric Utilities	10,938	11,845	12,511	1.5	95.3	94.2	87.9
Coal	375	392	313	-2.0	3.3	3.1	2.2
Petroleum	8	3	3	-9.3	.1	.0	.0
Natural Gas	20	21	185	28.3	.2	.2	1.3
Dual Fired	15	189	951	58.3	.1	1.5	6.7
Hydroelectric	63	54	69	1.0	.6	.4	.5
Other Renewables	63	68	184	12.6	.5	.5	1.3
Other	0	0	21	NM	.0	.0	.1
Total IPP's & Combined Heat and Power	544	728	1,726	13.7	4.7	5.8	12.1
Coal	7,651	7,782	7,500	-2	66.6	61.9	52.7
Petroleum	805	855	989	2.3	7.0	6.8	6.9
Natural Gas	123	92	525	17.5	1.1	.7	3.7
Dual Fired	736	1,770	2,949	16.7	6.4	14.1	20.7
Nuclear	1,496	1,432	1,510	.1	13.0	11.4	10.6
Hydroelectric	504	513	494	-2	4.4	4.1	3.5
Other Renewables	167	129	250	4.6	1.5	1.0	1.8
Other	0	0	21	NM	.0	.0	.1
Total Electric Industry	11,481	12,573	14,237	2.4	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
Wisconsin							
Coal	33,558,049	40,819,517	38,583,501	1.6	66.8	79.4	66.0
Petroleum	105,173	169,863	162,990	5.0	.2	.3	.3
Natural Gas	224,276	1,100,895	973,287	17.7	.4	2.1	1.7
Nuclear	11,464,574	3,915,871	12,448,813	.9	22.8	7.6	21.3
Hydroelectric	2,191,053	2,182,208	2,282,883	.5	4.4	4.2	3.9
Other Renewables	219,736	371,773	322,192	4.3	.4	.7	.6
Total Electric Utilities	47,762,861	48,560,127	54,773,666	1.5	95.1	94.4	93.7
Coal	992,897	1,156,968	1,223,983	2.4	2.0	2.3	2.1
Petroleum	230,382	240,887	259,687	1.3	.5	.5	.4
Natural Gas	187,401	323,459	1,103,027	21.8	.4	.6	1.9
Hydroelectric	295,533	301,086	232,134	-2.6	.6	.6	.4
Other Renewables	769,478	831,482	838,941	1.0	1.5	1.6	1.4
Total IPP's & Combined Heat and Power	2,475,691	2,853,882	3,657,772	4.4	4.9	5.6	6.3
Coal	34,550,946	41,976,485	39,807,484	1.6	68.8	81.6	68.1
Petroleum	335,555	410,750	422,677	2.6	.7	.8	.7
Natural Gas	411,677	1,424,354	2,076,314	19.7	.8	2.8	3.6
Nuclear	11,464,574	3,915,871	12,448,813	.9	22.8	7.6	21.3
Hydroelectric	2,486,586	2,483,294	2,515,017	.1	4.9	4.8	4.3
Other Renewables	989,214	1,203,255	1,161,133	1.8	2.0	2.3	2.0
Total Electric Industry	50,238,552	51,414,009	58,431,438	1.7	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)
Wisconsin				
Coal (2002 cents per million Btu)	134.9	112.0	112.2	-2.0
Average heat value (Btu per pound)	9,490	9,375	9,753	.3
Average sulfur Content(percent)5	.5	.4	-2.0
Petroleum (2002 cents per million Btu)	170.0	185.3	110.6	-4.7
Average heat value (Btu per gallon)	92,736	90,762	137,686	4.5
Average sulfur Content(percent)	5.3	5.7	5.2	-2
Gas (2002 cents per million Btu)	293.2	323.5	353.7	2.1
Average heat value (Btu per cubic foot)	1,012	1,008	983	-3

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)
Wisconsin				
Sulfur Dioxide				
Coal	195	255	208	0.7
Petroleum	8	9	9	.8
Gas.....	0	0	0	NM
Other.....	7	3	2	-12.9
Total	211	267	219	.4
Nitrogen Oxide				
Coal	167	118	93	-6.3
Petroleum	1	1	1	.1
Gas.....	1	1	2	9.6
Other.....	2	3	2	-.2
Total	171	123	98	-6.0
Carbon Dioxide				
Coal	38,678	47,680	46,939	2.2
Petroleum	341	531	525	4.9
Gas.....	324	1,163	1,601	19.4
Other.....	1	*	0	NM
Total	39,344	49,375	49,065	2.5

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
Wisconsin							
Retail Sales (thousand megawatthours)							
Residential.....	17,373	18,510	21,575	2.4	32.7	30.8	32.2
Commercial.....	13,710	15,730	19,144	3.8	25.8	26.2	28.6
Industrial	21,410	25,103	25,534	2.0	40.3	41.8	38.1
Other	662	751	746	1.3	1.3	1.3	1.1
Total	53,156	60,094	66,999	2.6	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	1,361	1,308	1,765	2.9	41.6	40.6	41.9
Commercial.....	908	905	1,253	3.6	27.8	28.1	29.8
Industrial	950	959	1,131	2.0	29.0	29.7	26.9
Other	51	52	60	1.8	1.6	1.6	1.4
Total	3,270	3,224	4,209	2.8	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	7.83	7.07	8.18	.5	NA	NA	NA
Commercial.....	6.62	5.75	6.54	-.1	NA	NA	NA
Industrial	4.44	3.82	4.43	*	NA	NA	NA
Other	7.78	6.96	8.08	.4	NA	NA	NA
Total	6.15	5.36	6.28	.2	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
Wisconsin						
Number of Entities	8	90	0	20	0	118
Number of Retail Customers	580,174	1,932,973	0	200,835	0	2,713,982
Retail Sales (thousand megawatthours).....	15,152	49,023	0	2,825	0	66,999
Percentage of Retail Sales.....	22.61	73.17	.00	4.22	.00	100.00
Revenue from Retail Sales (million 2002 dollars)	934	3,050	0	225	0	4,209
Percentage of Revenue.....	22.20	72.46	.00	5.34	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	6.17	6.22	.00	7.96	0	6.28

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 "**".)