

Table 1. 2006 Summary Statistics

Item	Value	U.S. Rank
Wisconsin		
NERC Region(s).....		MRO/RFC
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts)	16,415	25
Electric Utilities.....	12,911	19
Independent Power Producers & Combined Heat and Power.....	3,504	25
Net Generation (megawatthours).....	61,639,843	23
Electric Utilities.....	51,914,755	19
Independent Power Producers & Combined Heat and Power.....	9,725,089	30
Emissions (thousand metric tons)		
Sulfur Dioxide	208	17
Nitrogen Oxide.....	77	20
Carbon Dioxide.....	48,251	20
Sulfur Dioxide (lbs/MWh)	7.4	12
Nitrogen Oxide (lbs/MWh)	2.8	21
Carbon Dioxide (lbs/MWh).....	1,726	15
Total Retail Sales (megawatthours)	69,820,749	22
Full Service Provider Sales (megawatthours)	69,820,749	21
Direct Use (megawatthours)	3,586,727	10
Average Retail Price (cents/kWh).....	8.13	23

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)
Wisconsin			
1. Pleasant Prairie	Coal	Wisconsin Electric Power Co	1,226
2. South Oak Creek.....	Coal	Wisconsin Electric Power Co	1,153
3. Columbia	Coal	Wisconsin Power & Light Co	1,114
4. Point Beach.....	Nuclear	Wisconsin Electric Power Co	1,041
5. Edgewater	Coal	Wisconsin Power & Light Co	812
6. Fox Energy Center.....	Gas	GE Energy Services	600
7. Riverside Energy Center.....	Gas	Rock River Energy LLC	598
8. Port Washington Generating Station	Gas	Wisconsin Electric Power Co	575
9. Kewaunee	Nuclear	Dominion Energy Kewaunee Inc.	556
10. Weston	Coal	Wisconsin Public Service Corp	556

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
Wisconsin						
1. Wisconsin Electric Power Co.....	Investor-Owned	25,451,590	7,990,314	8,743,437	8,717,839	-
2. Wisconsin Public Service Corp.....	Investor-Owned	10,733,470	2,803,458	3,898,694	4,031,318	-
3. Wisconsin Power & Light Co.....	Investor-Owned	10,579,771	3,430,535	2,290,527	4,858,709	-
4. Northern States Power Co.....	Investor-Owned	6,038,067	1,870,818	2,666,916	1,500,333	-
5. Madison Gas & Electric Co.....	Investor-Owned	3,258,502	809,561	2,164,922	284,019	-
Total Sales, Top Five Providers.....		56,061,400	16,904,686	19,764,496	19,392,218	-
Percent of Total State Sales.....		80	78	87	77	-

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
Wisconsin										
Electric Utilities.....	10,558	11,536	12,248	12,511	12,568	12,405	12,877^R	12,911	95.9	78.7
Coal.....	7,120	7,204	7,170	7,186	7,123	6,856	6,855	6,879	64.7	41.9
Petroleum.....	1,128 ^R	983 ^R	1,072	1,156	783	759	771 ^R	764	10.3	4.7
Natural Gas.....	252 ^R	1,364 ^R	1,974	2,168	2,634	2,689	3,697	3,716	2.3	22.6
Nuclear.....	1,509	1,453	1,510	1,510	1,565	1,586	1,026 ^R	1,026	13.7	6.3
Hydroelectric.....	443	427	450	425	427	431	436	425	4.0	2.6
Other Renewables.....	106	106	72	66	37	84	92	101	1.0	0.6
Independent Power Producers and Combined Heat and Power.....	452	584	1,856	1,726	1,740	2,330	3,330^R	3,504	4.1	21.3
Coal.....	315	408	323	313	316	277	291	184	2.9	1.1
Petroleum.....	5	3	12	3	3	3	18 ^R	117	*	0.7
Natural Gas.....	35	55	1,262	1,136	1,145	1,744	2,169	2,339	0.3	14.3
Nuclear.....	-	-	-	-	-	-	556 ^R	556	-	3.4
Hydroelectric.....	46	53	66	69	51	51	51	51	0.4	0.3
Other Renewables.....	51	65	173	184	205	233	225	236	0.5	1.4
Other.....	-	-	21	21	21	21	21	21	-	0.1
Total Electric Industry.....	11,009	12,119	14,103	14,237	14,309	14,734	16,208	16,415	100.0	100.0
Coal.....	7,435	7,612	7,493	7,500	7,439	7,133	7,146	7,063	67.5	43.0
Petroleum.....	1,134 ^R	985 ^R	1,084	1,159	786	762	789	881	10.3	5.4
Natural Gas.....	287 ^R	1,419 ^R	3,235	3,304	3,779	4,433	5,866	6,056	2.6	36.9
Nuclear.....	1,509	1,453	1,510	1,510	1,565	1,586	1,582	1,582	13.7	9.6
Hydroelectric.....	489	480	516	494	478	482	487	476	4.4	2.9
Other Renewables.....	156	170	245	250	241	317	318	337	1.4	2.1
Other.....	-	-	21	21	21	21	21	21	-	0.1

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
Wisconsin										
Electric Utilities.....	45,550,958	51,012,390	54,959,426	54,773,666	56,068,698	56,142,364	55,169,108	51,914,755	95.4	84.2
Coal.....	32,144,557	36,863,872	40,185,649	38,583,501	40,579,973	40,981,609	40,506,086	38,866,178	67.3	63.1
Petroleum.....	47,444	147,493	170,443	162,990	185,625	494,535	470,219	591,486	0.1	1.0
Natural Gas.....	169,378	648,912	868,225	973,287	1,131,999	711,519	2,450,224	2,114,624	0.4	3.4
Nuclear.....	11,225,913	10,969,606	11,507,078	12,448,813	12,215,463	11,887,849	9,920,991	8,560,416	23.5	13.9
Hydroelectric.....	1,791,037	2,097,101	1,887,555	2,282,883	1,623,369	1,748,442	1,498,881	1,446,192	3.7	2.3
Other Renewables.....	172,629	285,406	180,513	179,399	194,031	227,684	230,399	259,408	0.4	0.4
Other.....	-	-	159,963	142,793	138,238	90,726	92,308	76,451	-	0.1
Independent Power Producers and Combined Heat and Power.....	2,217,899	2,910,741	3,804,005	3,657,772	4,053,726	4,302,569	6,655,556	9,725,088	4.6	15.8
Coal.....	1,024,384	1,229,562	1,067,807	1,223,983	1,137,243	1,159,287	1,142,924	1,176,558	2.1	1.9
Petroleum.....	132,013	237,671	277,340	259,688	287,162	257,040	254,011	275,343	0.3	0.4
Natural Gas.....	177,826	359,692	1,365,740	1,103,026	1,346,392	1,683,392	3,926,228	3,244,886	0.4	5.3
Nuclear.....	-	-	-	-	-	-	-	3,673,099	-	6.0
Hydroelectric.....	223,375	281,371	168,689	232,134	219,926	232,234	241,338	232,406	0.5	0.4
Other Renewables.....	660,301	801,861	921,697	836,193	1,031,693	947,726	1,064,179 ^R	1,089,301	1.4	1.8
Other.....	-	584	2,732	2,748	31,310	22,890	26,876 ^R	33,495	-	0.1
Total Electric Industry.....	47,768,857	53,923,131	58,763,431	58,431,438	60,122,424	60,444,933	61,824,664	61,639,843	100.0	100.0
Coal.....	33,168,941	38,093,434	41,253,456	39,807,484	41,717,216	42,140,896	41,649,010	40,042,736	69.4	65.0
Petroleum.....	179,457	385,164	447,783	422,678	472,787	751,575	724,230	866,829	0.4	1.4
Natural Gas.....	347,204	1,008,604	2,233,965	2,076,313	2,478,391	2,394,911	6,376,452	5,359,510	0.7	8.7
Nuclear.....	11,225,913	10,969,606	11,507,078	12,448,813	12,215,463	11,887,849	9,920,991	12,233,515	23.5	19.8
Hydroelectric.....	2,014,412	2,378,472	2,056,244	2,515,017	1,843,295	1,980,676	1,740,219	1,678,598	4.2	2.7
Other Renewables.....	832,930	1,087,267	1,102,210	1,015,593	1,225,724	1,175,411	1,294,578	1,348,709	1.7	2.2
Other.....	-	584	162,695	145,540	169,548	113,615	119,184 ^R	109,946	-	0.2

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
Wisconsin								
Coal (cents per million Btu)	136	114	105	112	W	W	W	W
Average heat value (Btu per pound)	9,642	9,351	9,500	9,089	9,006	9,030	9,088	8,975
Average sulfur Content (percent)	0.81	0.46	0.37	0.41	0.38	0.39	0.38	0.36
Petroleum (cents per million Btu)	526	177	146	W	W	W	W	W
Average heat value (Btu per gallon)	139,200	95,883	139,048	133,712	134,343	135,093	135,238	134,333
Average sulfur Content (percent)	0.37	3.66	4.90	5.19	5.35	5.45	5.33	5.36
Natural Gas (cents per million Btu)	293	221	473	354	582	639	862	726
Average heat value (Btu per cubic foot)	1,007	1,009	1,010	999	1,002	1,002	1,012	1,012

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
Wisconsin								
Sulfur Dioxide								
Coal.....	293	211	225	474	215	195	193	185
Petroleum.....	8	17	18	52	9	21	14	15
Natural Gas.....	*	*	*	*	*	*	*	*
Other.....	17	8	62	99	9	7	7	9
Total.....	318	236	305	625	232	223	214	208
Nitrogen Oxide								
Coal.....	181	188	117	239	83	78	70	65
Petroleum.....	1	1	3	6	2	3	2	2
Natural Gas.....	1	3	7	59	3	2	3	2
Other.....	5	3	27	45	6	6	6	7
Total.....	188	196	155	349	93	89	81	77
Carbon Dioxide								
Coal.....	36,117	41,137	46,177	46,199	45,561	46,495	48,831	43,765
Petroleum.....	432	747	930	929	933	1,319	1,332	1,557
Natural Gas.....	391	1,118	1,758	1,547	1,754	1,904	3,704	2,812
Other Renewables.....	63	59	170	164	176	139	103	117
Total.....	37,003	43,061	49,035	48,839	48,424	49,858	53,969	48,251

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
Wisconsin										
Retail Sales (thousand megawatthours)										
Residential.....	16,385	18,635	20,418	21,575	21,364	21,192	22,458	21,779	33.3	31.2
Commercial.....	12,698	14,893	18,678	19,144	20,056	19,349	22,501	22,756	25.8	32.6
Industrial.....	19,405	23,690	25,370	25,534	25,821	27,435	25,376	25,286	39.4	36.2
Other.....	710	749	752	746	NA	NA	NA	NA	1.4	NA
All Sectors.....	49,198	57,967	65,218	66,999	67,241	67,976	70,336	69,821	100.0	100.0
Retail Revenue (million dollars)										
Residential.....	1,087	1,298	1,612	1,765	1,853	1,922	2,171	2,289	41.2	40.3
Commercial.....	733	861	1,185	1,253	1,397	1,401	1,726	1,905	27.8	33.6
Industrial.....	774	896	1,107	1,131	1,217	1,353	1,368	1,480	29.3	26.1
Other.....	46	51	58	60	NA	NA	NA	NA	1.7	NA
All Sectors.....	2,641	3,106	3,962	4,209	4,468	4,677	5,264	5,674	100.0	100.0
Average Retail Prices (cents/KWh)										
Residential.....	6.63	6.97	7.90	8.18	8.67	9.07	9.66	10.51	NA	NA
Commercial.....	5.78	5.78	6.34	6.54	6.97	7.24	7.67	8.37	NA	NA
Industrial.....	3.99	3.78	4.36	4.43	4.71	4.93	5.39	5.85	NA	NA
Other.....	6.47	6.85	7.70	8.08	NA	NA	NA	NA	NA	NA
All Sectors.....	5.37	5.36	6.08	6.28	6.64	6.88	7.48	8.13	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	12	82	NA	24	1	NA	NA	119
Number of Retail Customers	2,361,509	269,305	NA	250,176	2	NA	NA	2,880,992
Retail Sales (thousand megawatthours)	58,407	7,902	NA	3,510	2	NA	NA	69,821
Percentage of Retail Sales	83.65	11.32	NA	5.03	*	NA	NA	100.00
Revenue from Retail Sales (million dollars)	4,796	536	NA	342	*	NA	NA	5,674
Percentage of Revenue	84.53	9.44	NA	6.03	*	NA	NA	100.00
Average Retail Price (cents/kWh)	8.21	6.78	NA	9.75	4.50	NA	NA	8.13

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 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
Wisconsin								
Supply								
Generation								
Electric Utilities	45,551	51,012	54,959	54,774	56,069	56,142	55,169	51,915
Independent Power Producers	110	139	775	351	726	1,348	3,212	6,373
Combined Heat and Power, Electric	23	68	568	746	585	407	793	785
Electric Power Sector Generation Subtotal	45,684	51,220	56,303	55,872	57,380	57,897	59,174	59,073
Combined Heat and Power, Commercial	20	109	148	147	132	163	164	110
Combined Heat and Power, Industrial	2,065	2,594	2,313	2,413	2,611	2,384	2,487	2,457
Industrial and Commercial Generation Subtotal	2,085	2,703	2,461	2,560	2,742	2,548	2,651	2,567
Total Net Generation	47,769	53,923	58,763	58,431	60,122	60,445	61,825	61,640
Total International Imports	-	-	-	-	1	-	*	*
Total Supply	47,769	53,923	58,763	58,431	60,123	60,445	61,825	61,640
Disposition								
Retail Sales								
Full Service Providers	49,198	57,967	65,218	66,999	67,178	67,905	70,334	69,819
Facility Direct Retail Sales	-	-	-	-	63	70	2	2
Total Electric Industry Retail Sales	49,198	57,967	65,218	66,999	67,241	67,976	70,336	69,821
Direct Use	2,105	2,773	2,663	2,721	2,756	2,759	4,087	3,587
Estimated Losses	3,689	4,401	3,146	4,258	3,401	4,439	4,104	3,544
Total Disposition	54,991	65,140	71,028	73,979	73,398	75,173	78,526	76,952
Net Interstate Trade	-7,223	-11,217	-12,264	-15,547	-13,275	-14,728	-16,701	-15,312
Net Trade Index (ratio)	0.87	0.83	0.83	0.79	0.82	0.80	0.79	0.80

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.