

Environmental Performance

Energy by Source – EN3

Electric Generation (GWh)	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
Pleasant Prairie Power Plant	7,148	7,245	7,714	7,837	7,523	8,460	8,251	7,936	7,899	8,235
Oak Creek Site	6,227	4,425	5,893	5,705	5,864	5,887	6,735	5,950	5,400	5,928
Presque Isle Power Plant	2,398	2,621	3,384	3,456	3,335	3,431	3,258	2,995	3,142	3,306
Valley Power Plant	735	873	1,218	1,280	1,295	1,463	1,156	1,127	1,148	1,115
Port Washington Power Plant	–	–	–	–	–	–	480	668	747	941
Edgewater Unit 5	620	553	594	598	448	529	565	545	615	584
Milwaukee County Power Plant	26	30	32	30	25	25	21	24	24	23
Total Coal Generation	17,154	15,747	18,835	18,906	18,490	19,795	20,466	19,245	18,975	20,132
Port Washington Generating Station	2,652	2,273	1,775	1,803	1,173	512	–	–	–	–
Concord Generating Station	46	22	53	178	97	255	18	26	36	41
Paris Generation Station	29	29	40	104	64	165	29	60	77	72
Germantown Generating Station	9	6	25	59	37	78	22	29	40	48
Total Natural Gas Generation	2,736	2,330	1,893	2,144	1,371	1,010	69	115	153	161
Nuclear Generation	–	–	–	6,040	8,559	6,869	8,014	8,062	7,980	8,046
Renewable Energy Generation	631	583	381	273	326	336	379	349	450	357
Total Electric Generation	20,521	18,660	21,109	27,363	28,746	28,010	28,928	27,771	27,558	28,696
General Purchased Power	1,974	1,925	4,442	4,596	4,235	5,928	3,730	4,366	4,273	3,388
Purchased Power-Nuclear	8,720	8,915	7,751	2,335	0	0	0	0	0	0
Purchased Power-Renewable Energy	437	321	370	234	250	237	230	248	206	145
Total Generated and Purchased Energy (GWh)	31,652	29,821	33,672	34,528	33,231	34,175	32,888	32,385	32,037	32,229

Environmental Performance

Renewable Energy – EN6

Renewable Energy (Megawatt-hours)	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
Energy for Tomorrow® Customers at Year End	22,301	20,927	19,615	17,932	15,823	12,458	11,120	10,760	10,872	10,487
Energy for Tomorrow® Energy Use MWh	164,490	173,218	176,243	123,231	70,531	53,378	40,916	36,456	35,161	33,360
WI Renewable Portfolio Standard MWh	1,065,396	580,590	585,347	578,570	416,667	350,542	317,226	337,412	312,986	124,803
Other Renewable MWh*	[161,567]	149,555	133,303	130,288	106,955	266,118	356,662	249,636	307,116	372,698
Total Renewable Energy MWh	1,068,319	903,363	894,893	832,089	594,153	670,038	714,804	623,504	655,263	530,861

* A value in [brackets] indicates that the WI Renewable Portfolio Standard was met using banked renewable energy for that year.

Environmental Performance

Air Emissions – EN20

Air Emissions	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
NO _x (kg)	13,494,172	13,258,783	17,322,556	17,367,445	22,544,270	25,796,599	27,693,375	31,210,035	39,920,889	45,083,226
NO _x (kg/MWh)	0.70	0.75	0.86	0.85	1.16	1.27	1.38	1.61	2.16	2.29
SO ₂ (kg)	25,108,020	25,344,910	33,270,842	34,574,018	60,656,913	68,152,392	75,225,418	75,594,722	80,346,491	90,089,163
SO ₂ (kg/MWh)	1.30	1.43	1.65	1.69	3.12	3.36	3.75	3.90	4.34	4.57
PM (kg)	911,632	673,344	841,135	897,583	855,391	942,980	972,758	980,768	1,026,247	1,132,841
PM (kg/MWh)	0.047	0.038	0.042	0.044	0.044	0.047	0.049	0.051	0.055	0.060
VOC (kg)	320,063	303,101	344,668	350,492	338,875	351,991	354,974	334,974	328,350	348,222
VOC (kg/MWh)	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.017	0.018	0.020
Hg (kg)	166.2	365.8	439.4	400.7	628.2	597.3	571.4	531.1	550.3	524.5
Hg (kg/MWh)	0.000009	0.000021	0.000022	0.000020	0.000032	0.000029	0.000029	0.000028	0.000030	0.000027

Environmental Performance

Greenhouse Gas Emissions – EN16

CO ₂ Equivalents (1,000 Metric Tons)	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
Pleasant Prairie Power Plant	8,108	8,118	8,543	8,607	8,234	9,109	8,797	8,426	8,516	8,826
Oak Creek Site	7,561	4,613	6,157	5,970	5,902	5,976	6,831	6,116	5,977	6,168
Presque Isle Power Plant	2,738	2,964	3,754	3,820	3,615	3,727	3,577	3,306	3,456	3,622
Purchased Power*	1,435	1,291	2,053	3,821	3,645	4,898	3,375	3,826	3,591	2,863
Valley Power Plant	1,201	1,286	1,655	1,714	1,759	1,932	1,633	1,601	1,613	1,589
Port Washington Power Plant (Coal)	0	0	0	0	0	0	742	864	959	1,317
Port Washington Generating Station (Gas)	1,104	923	674	732	477	216	0	0	0	0
Edgewater Unit 5	662	534	574	632	465	534	560	538	600	572
Milwaukee County Power Plant	145	149	164	146	136	130	119	121	118	113
Other emissions from fossil combustion**	0	48	61	62	57	61	57	54	53	56
Concord Generating Station	36	19	43	132	76	204	17	23	31	35
Paris Generation Station	23	23	32	79	50	123	22	45	60	56
Germantown Generating Station	11	8	23	31	20	51	9	14	24	23
Total CO ₂ Equivalents (1,000 Metric Tons)	23,024	19,976	23,732	25,747	24,436	26,960	25,740	24,934	24,999	25,239
System GHG Intensity (metric tons/MWh)	0.73	0.67	0.70	0.75	0.74	0.79	0.78	0.77	0.78	0.78

*CO₂ equivalents from purchase power were calculated using regional factors published by the Michigan Public Service Commission.

**Main component was GHG from Edison Sault Electric which was sold in May 2010.

Environmental Performance

Water Withdrawn – EN8

Water (billion cubic meters)	2010	2009	2008	2007	2006	2005	2004
Water from Major Sources*	2.93	1.88	2.13	2.65	3.10	2.85	2.92
Municipal Water Purchases	.004	.003	.003	.003	.003	.003	.003

* Most (99%) of the water use is once through cooling.

Water Recycled – EN10

Water Returned to Source	2010	2009	2008	2007	2006	2005	2004
Billion cubic meters	2.91	1.87	2.12	2.63	3.09	2.83	2.90
Percent (%)	99.31	99.46	99.44	99.35	99.55	99.50	99.48

Environmental Performance

Recovered and Recycled Materials – EN2

Materials (metric tons)	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
Coal Ash Reburn	64,400	64,172	86,700	84,900	86,300	91,600	81,465	104,092	124,337	52,628
Coal Displaced	15,100	14,100	20,800	28,600	24,500	34,300	28,646	43,256	56,985	18,682

Products Reclaimed – EN27

Products Reclaimed (metric tons)	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
Coal Combustion Products Produced	721,900	609,800	718,200	702,000	618,200	645,200	640,300	600,904	597,626	629,936
Coal Combustion Products Used	790,200	588,800	686,500	693,800	618,600	579,200	596,400	586,411	573,354	532,423
Percent Used	110	97	96	99	100	90	93	98	96	85

Note: Amounts produced and used include synthetic gypsum produced in the flue gas desulphurization process at our coal-fueled power plants. In 2006 and 2010, recovery of some of our previous landfilled ash products resulted in the use of more coal combustion products than produced in that year.

Environmental Performance

Waste – EN22

Waste (kg)	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001
Hazardous Waste Generated	113,296	72,877	32,611	187,903	432,764	62,589	138,527	63,247	120,706	86,616
Hazardous Waste Recycled	5,391	9,648	3,014	1,111	13,000	13,270	9,618	7,989	19,307	5,426
Non-Hazardous Waste Generated*	15,339,052	13,587,151	16,216,143	13,224,180						
Non-Hazardous Waste Recycled*	8,029,638	7,996,745	10,985,493	7,537,266						

* Non-Hazardous Waste includes ferrous and non-ferrous scrap metal, used oil, mixed paper, cardboard, plastic, wood and other materials, municipal solid waste, and other waste products. Reporting data became available beginning with reporting year 2007.