

Table C.20: Hydro Generating Plants Operated by Wisconsin Utilities

Plant Name	Operating Utility	Unit Inst. (Year)	1991 Rated Cap. (MW)	1991 Max. Dmd (MW)	1991 Net MWH Gen.	Cap. Fact.	Power Generation Expense (\$)	Power Expense per kWh Gen. (cents)	Original Cost of Plant (\$)	Orig. Cost (\$) per kW Cap.	River
Jim Falls	NSP	1923-88	57.4	57.4	189,323	38	697,612	0.37	100,999,368	1760	Chippewa
Wissota	NSP	1917	36	37.3	181,278	57	1,215,607	0.67	17,009,157	472	Chippewa
Holcombe	NSP	1950	33.8	35.5	132,731	45	576,144	0.43	10,365,420	307	Chippewa
Cornell	NSP	1976-77	30.9	30.5	116,545	43	605,570	0.52	15,994,622	518	Chippewa
Prairie du Sac	WPL	1914-40	28.5	31	166,453	67	1,008,876	0.61	6,073,283	213	Wisconsin
St. Croix Falls	NSP	1905-23	23.2	23.9	135,283	67	731,759	0.54	4,185,800	180	St. Croix
Chippewa Falls	NSP	1928	21.6	21.6	87,147	46	434,250	0.50	4,490,916	338	Chippewa
Grandfather Falls	WPS	1938	17.24	N/A	96,638	64	598,792	0.62	5,461,080	317	Wisconsin
Eau Claire Dells	NSP	1907	9.5	8.9	51,802	62	820,466	1.58	1,653,705	174	Chippewa
Kilbourne	WPL	1907	8.2	5.9	64,840	90	537,194	0.83	2,909,520	355	Wisconsin
Big Falls	NSP	1922	7.78	7.8	43,652	64	548,688	1.26	1,960,716	252	Flambeau
High Falls	WPS	1910	7	N/A	21,150	34	219,463	2.34	17,831,763	238	Peshtigo
Caldron Falls	WPS	1924	6.4	N/A	21,400	38	130,074	0.61	1,014,561	159	Peshtigo
Cedar Falls	NSP	1910	6	7.2	39,188	75	429,244	1.10	1,274,861	212	Red Cedar
Menomonie Falls	NSP	1958	5.4	5.4	25,071	53	221,841	0.88	3,593,612	665	Red Cedar
Wausau	WPS	1921	5.4	N/A	37,519	79	274,134	0.73	2,025,628	375	Wisconsin
Pine	WEPCO	1922	3.6	4.4	19,313	61	178,939	0.93	1,084,267	301	Pine
Sandstone Rapids	WPS	1925	3.84	N/A	14,788	44	87,641	0.59	1,831,578	477	Peshtigo
Johnson Falls	WPS	1923	3.52	N/A	13,850	45	84,424	0.61	762,683	217	Peshtigo

Ladysmith	NSP	1940	3.4	2.8	13,847	46	87,829	0.63	3,569,626	1050	Flambeau
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Table C.21: Hydro Generating Plants Operated by Wisconsin Utilities

Plant Name	Operating Utility	Unit Inst. (Year)	1991 Rated Cap. (MW)	1991 Max. Dmd (MW)	1991 Net MWH Gen.	Cap. Fact.	Power Generation Expense (\$)	Power Expense per kWh Gen. (cents)	Original Cost of Plant (\$)	Orig. Cost (\$) per kW Cap.	River
Tomahawk	WPS	1937	2.6	N/A	14,840	65	171,556	1.16	804,011	309	Wisconsin
Merril	WPS	1917	2.34	132.2	11,137	54	197,800	1.78	3,536,673	1511	Wisconsin
Appleton	WEPCO	1916	1.44	3.8	12,576	100	232,803	1.85	1,266,724	880	Fox
Hat Rapids	WPS	1905	1.7	N/A	10,058	68	139,302	1.38	1,929,561	1135	Wisconsin
Oconto Falls	WEPCO	1924	1.21	1.4	7,791	74	111,011	1.42	194,367	161	Oconto
Thornapple	NSP	1929	1.4	1.6	5,698	46	710,572	12.47	2,046,774	1462	Flambeau
Potato Rapids	WPS	1921	1.38		6,640	55	125,136	1.88	573,023	415	Peshtigo
Trego	NSP	1927	1.2	1.3	8,423	80	73,162	0.87	489,951	415	Namekagon
White River	NSP	1907	1	0.9	5,771	66	152,851	2.65	954,895	955	White
Shawno	WPL	1928	0.7	0.41	4,558	74	288,728	6.33	365,250	522	Wolf
Peshtigo	WPS	1920	0.584	N/A	3,627	71	81,012	2.23	376,638	645	Peshtigo
Jersey	WPS	1920	0.512	N/A	2,484	55	83,415	3.36	333,796	652	Tomahawk
Otter Rapids	WPS	1907	0.5	N/A	2,173	50	132,360	6.09	175,664	351	Wisconsin
Riverdale	NSP	1905	0.5	0.6	3,698	84	77,535	2.10	767,844	1536	Apple
Janesville	WPL	1927	0.27	0.27	2,245	95	106,095	4.73	272,293	1012	Rock
Nancy Dam	DLPC	1952	0.475	0.475	2,064	50	18,822	0.91	142,727	300	Totogatic
Apple River	NSP	1900	4.4	4	13,436	35	226,473	1.69	2,007,723	456	Apple
Alexander	WPS	1925	4.2	N/A	28,051	76	157,694	0.56	1,301,293	375	Wisconsin
Weyauwega	WEPCO	1915-30	0.44	0.4	215	6	53,805	25.03	169,880	386	Waupaca
Black Hawk	WPL	1928	0.38	0.36	3,442	103	115,371	3.35	107,025	282	Rock
Gordon	DLPC	1932	0.257	0.2	715	32	15,844	2.22	87,820	342	Eau Claire
Hayward	NSP	1923	0.17	0.2	1,545	104	59,141	3.83	202,805	1193	Namekagon

Table C.22: Nuclear Generating Plants Operated by Wisconsin Utilities

Plant Name	Operating Utility	Unit Inst. (Year)	1991 Rated Cap. (MW)	1991 Max. Dmd (MW)	1991 Net MWH Gen.	Cap. Fact.	Power Generation		Expense per kWh Gen. (cents)		Original Cost of Plant (\$)	Orig. Cost(\$ per kW Cap.	BTU's of Fuel per kWh Gen.
							Expense	(\$)	Fuel	Total			
Point Beach	WEPCO	1970	523.8	484.8	3,628,733	79	15,934,651	50,563,102	1.64	1.39	153,912,367	294	10,574
Point Beach	WEPCO	1972	523.8	495.1	3,687,712	80	16,696,029	50,923,421	0.44	1.38	135,589,143	259	10,460
Kewaunee	*	1974	535	528	3,674,974	78	20,628,570	83,836,335	0.45	2.28	299,574,786	560	10,788

* WPS, WPL AND MGE ownership shares in Kewaunee are 41.2%, 41.0% and 17.8% respectively.

Table C.23: Turbine Generating Plants Operated by Wisconsin Utilities

Plant Name	Unit (#)	Operating Utility	Unit Inst. (Year)	1991 Rated Cap. (MW)	1991 Max. Dmd (MW)	1991 Net MWH Gen.	Cap. Fact.	Power Expense	Generation (\$)	Expense per kWh Gen. (cents)		Original Cost of Plant (\$)	Orig. Cost(\$ per kW Cap.	BTU's of Fuel per kWh Gen.
								Fuel	Total	Fuel	Total			
Wheaton	1	NSP	1973-4	267	440	4,533	0.2	435,011	2,018,625	9.60	44.54	31,547,033	118	25,474
Germantown	1	WEPCO	1978	61.2	44.4	3,882	0.7	300,519	391,779	7.74	10.09	9,005,268	147	14,785
Germantown	2	WEPCO	1978	61.2	43.6	4,028	0.8	312,378	416,094	7.76	10.33	9,005,268	147	14,811
Germantown	3	WEPCO	1978	61.2	43.2	3,765	0.7	291,414	383,371	7.74	10.18	9,005,268	147	14,793
Germantown	4	WEPCO	1978	61.2	45.5	2,213	0.4	179,919	262,037	8.13	11.84	9,005,266	147	15,545
French Is.	1	NSP	1973-4	157.5	192	1,199	0.1	115,684	821,249	9.65	68.52	14,027,538	89	27,485
Rock River	3	WPL	1967	37.5	34	684	0.2	35,914	55,617	5.25	8.13	3,206,545	86	23,793
Rock River	4	WPL	1968	17.9	18	380	0.2	16,821	39,327	4.43	10.35	2,024,037	113	19,532
Rock River	5	WPL	1973	51	64	6,349	1.4	250,568	322,047	3.95	5.07	4,802,165	94	14,895
Rock River	6	WPL	1973	51	62	4,917	1.1	194,016	249,361	3.95	5.07	3,718,355	73	15,794
W. Marinette	1	WPS	1971	83.7	84.2	6,547	0.9	297,728	595,547	4.55	9.10	7,225,217	86	16,005
Weston	1	WPS	1969	73	76	7,065	1.1	294,119	703,952	4.16	9.96	6,245,054	86	14,893
Sheepskin	1	WPL	1971	46.5	44	5,849	1.4	279,340	476,027	4.78	8.14	3,525,552	76	18,743
Fitchburg	1	MGE	1973	53.3	N/A	4,900	1	188,972	632,514	3.86	12.91	350,977	7	16,664
Sycamore	1	MGE	1967-71	37.5	N/A	3,693	1.1	176,806	476,918	4.79	12.92	1,886,648	50	19,917
Oak Creek	1	WEPCO	1968	19.6	N/A	1,417	0.8	95,037	280,689	6.71	19.81	2,077,272	106	20,826
Port Wash.	1	WEPCO	1969	19.6	N/A	276	0.2	56,676	159,055	20.53	57.63	2,005,414	102	44,377
Point Beach	1	WEPCO	1969	19.6	15.3	495	0.3	93,002	146,677	18.79	29.63	1,773,440	90	36,800
Flambeau	1	NSP	1969	19.3	17	1,249	0.7	45,200	168,149	3.62	13.47	3,068,040	159	18,162
9 Springs	1	MGE	1964	16.2	N/A	365	0.3	28,989	65,784	7.94	18.02	1,593,760	98	24,619

MGE has only partial ownership of Fitchburg and Sycamore, the remainder is under a lease agreement.

**Table C.24: Projected Quantities of Significant Pollutants by Type
Total for Wisconsin Utilities**

Year	Fossil Plants							Nuclear Plants (Curies/Year)					
	(1,000 Tons/year)							Gaseous				Liquid	
	CO2	SO2	N2O	NOX	CH4	Part.	Total Ash	Tritium	Noble Gases	Iodines	Part.	Tritium	Other
1994	63,229	247.9	0.40	184	0.270	11.20	2,076	215	371	0.047	0.010	970	1.148
1995	63,175	232.4	0.42	190	0.280	11.00	2,060	226	371	0.050	0.011	926	1.115
1996	66,037	244.9	0.43	232	0.290	11.30	2,091	218	372	0.042	0.010	988	1.165
1997	67,466	238.3	0.43	222	0.290	11.70	2,158	219	372	0.046	0.011	937	1.135
1998	68,154	234.8	0.43	216	0.290	11.70	2,173	217	371	0.043	0.010	964	1.139
1999	19,254	236.1	0.43	217	0.290	12.20	2,187	213	368	0.041	0.010	956	1.098
2000	69,231	236.9	0.44	223	0.290	11.90	2,170	228	372	0.050	0.011	953	1.141
2001	71,285	241.3	0.45	231	0.290	12.30	2,293	206	372	0.041	0.010	921	1.123
2002	71,839	245.2	0.45	244	0.300	12.30	2,358	206	372	0.042	0.100	912	1.122
2003	73,927	250.2	0.47	231	0.300	12.80	2,407	216	372	0.046	0.011	920	1.122
2004	75,632	257.3	0.48	234	0.310	12.80	2,490	206	372	0.041	0.010	915	1.111
2005	76,643	250.0	0.49	249	0.310	13.10	2,589	219	372	0.047	0.011	925	1.126
2006	79,439	260.0	0.50	257	0.320	13.30	2,676	207	372	0.041	0.010	928	1.129
2007	80,892	258.3	0.54	227	0.320	13.70	2,774	204	372	0.041	0.010	903	1.116
2008	82,378	253.3	0.55	245	0.32	13.8	2,835	219	372	0.047	0.011	929	1.142
2009	83,481	256.7	0.59	254	0.32	14.2	2,892	208	372	0.041	0.010	929	1.131
2010	84,935	262.0	0.67	263	0.33	14.2	2,947	216	372	0.047	0.011	905	1.131
2011	93,469	265.6	0.90	229	0.34	15.3	3,094	180	358	0.041	0.008	767	0.947
2012	94,554	270.1	0.91	240	0.35	15.3	3,116	189	358	0.046	0.009	754	0.954
2013	99,060	267.7	1.15	243	0.35	15.9	3,222	156	344	0.040	0.007	633	0.797