

**Table 1. 2003 Summary Statistics**

Item	Value	U.S. Rank
<b>Minnesota</b>		
NERC Region(s).....		MAPP
Primary Energy Source .....		Coal
Net Summer Capability (megawatts).....	11,486	30
Electric Utilities .....	10,163	24
Independent Power Producers & Combined Heat and Power .....	1,322	37
Net Generation (megawatthours).....	55,050,995	25
Electric Utilities .....	49,576,276	20
Independent Power Producers & Combined Heat and Power .....	5,474,719	33
Emissions (thousand metric tons)		
Sulfur Dioxide .....	113	24
Nitrogen Oxide .....	94	16
Carbon Dioxide .....	39,637	25
Sulfur Dioxide (lbs/MWh).....	4.5	26
Nitrogen Oxide (lbs/MWh).....	3.8	14
Carbon Dioxide (lbs/MWh).....	1,587	18
Total Retail Sales (megawatthours).....	63,087,339	24
Full Service Provider Sales (megawatthours).....	63,087,339	23
Direct Use (megawatthours).....	2,928,218	15
Average Retail Price (cents/kWh).....	6.01	39

See footnotes at end of tables.

**Table 2. Ten Largest Plants by Generating Capability, 2003**

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
<b>Minnesota</b>			
1. Sherburne County.....	Petroleum, Coal	Northern States Power Co	2,302
2. Prairie Island .....	Nuclear	Northern States Power Co	1,044
3. Clay Boswell .....	Petroleum, Coal	Minnesota Power Inc	914
4. Allen S King .....	Gas, Petroleum, Coal	Northern States Power Co	573
5. Monticello.....	Nuclear	Northern States Power Co	569
6. Black Dog.....	Gas, Coal	Northern States Power Co	566
7. Lakefield Junction.....	Petroleum, Gas	Great River Energy	525
8. Pleasant Valley.....	Petroleum, Gas	Great River Energy	423
9. Riverside .....	Gas, Petroleum, Coal	Northern States Power Co	387
10. Inver Hills.....	Petroleum, Gas	Northern States Power Co	361

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2003**  
(Megawatthours)

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
<b>Minnesota</b>						
1. Northern States Power Co.....	Investor-Owned	30,417,980	8,482,572	12,547,929	9,387,479	0
2. Minnesota Power Inc.....	Investor-Owned	8,425,421	978,743	1,232,503	6,214,175	0
3. Otter Tail Power Co.....	Investor-Owned	1,897,708	509,490	1,004,708	383,510	0
4. Anoka Electric Coop .....	Cooperative	1,759,978	1,040,821	592,477	126,680	0
5. Dakota Electric Assn.....	Cooperative	1,676,237	853,816	317,465	504,956	0
Total Sales, Top Five Providers.....		44,177,324	11,865,442	15,695,082	16,616,800	0
Percent of Total State Sales .....		70	57	76	76	0

See footnotes at end of tables.

**Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatts)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Minnesota</b>							
<b>Electric Utilities</b> .....	<b>8,951</b>	<b>9,089</b>	<b>10,163</b>	<b>1.4</b>	<b>93.6</b>	<b>89.8</b>	<b>88.5</b>
Coal.....	5,742	5,657	5,342	-8	60.0	55.9	46.5
Petroleum.....	909	961	581	-4.9	9.5	9.5	5.1
Natural Gas.....	179	292	539	13.0	1.9	2.9	4.7
Dual Fired.....	330	264	1,826	20.9	3.5	2.6	15.9
Nuclear.....	1,564	1,630	1,613	.3	16.4	16.1	14.0
Hydroelectric.....	142	139	133	-7	1.5	1.4	1.2
Other Renewables.....	85	146	129	4.7	.9	1.4	1.1
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>614</b>	<b>1,030</b>	<b>1,322</b>	<b>8.9</b>	<b>6.4</b>	<b>10.2</b>	<b>11.5</b>
Coal.....	345	344	358	.4	3.6	3.4	3.1
Petroleum.....	16	24	26	5.5	.2	.2	.2
Natural Gas.....	32	42	133	17.2	.3	.4	1.2
Dual Fired.....	20	265	172	27.0	.2	2.6	1.5
Hydroelectric.....	64	64	43	-4.3	.7	.6	.4
Other Renewables.....	137	291	579	17.4	1.4	2.9	5.0
Other.....	0	0	11	NM	.0	.0	.1
<b>Total Electric Industry</b> .....	<b>9,562</b>	<b>10,117</b>	<b>11,486</b>	<b>2.1</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	6,086	6,001	5,701	-7	63.6	59.3	49.6
Petroleum.....	925	985	607	-4.6	9.7	9.7	5.3
Natural Gas.....	210	334	672	13.8	2.2	3.3	5.9
Dual Fired.....	349	528	1,998	21.4	3.6	5.2	17.4
Nuclear.....	1,564	1,630	1,613	.3	16.4	16.1	14.0
Hydroelectric.....	206	203	176	-1.7	2.2	2.0	1.5
Other Renewables.....	222	436	708	13.8	2.3	4.3	6.2
Other.....	0	0	11	NM	.0	.0	.1

See footnotes at end of tables.

**Table 5. Electric Power Industry Generation by Primary Energy Source, 1994, 1998, and 2003**  
(Megawatthours)

Energy Source	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Minnesota</b>							
<b>Electric Utilities</b> .....	<b>40,917,280</b>	<b>43,976,935</b>	<b>49,576,276</b>	<b>2.2</b>	<b>93.2</b>	<b>91.6</b>	<b>90.1</b>
Coal.....	26,399,834	29,884,402	33,157,032	2.6	60.1	62.2	60.2
Petroleum.....	596,987	649,866	845,239	3.9	1.4	1.4	1.5
Natural Gas.....	451,625	652,432	1,072,867	10.1	1.0	1.4	1.9
Nuclear.....	12,223,620	11,644,106	13,413,828	1.0	27.8	24.3	24.4
Hydroelectric.....	831,074	694,836	686,227	-2.1	1.9	1.4	1.2
Other Renewables.....	414,140	451,293	401,083	-4	.9	.9	.7
<b>Independent Power Producers and Combined</b>							
<b>Heat and Power</b> .....	<b>2,980,375</b>	<b>4,040,970</b>	<b>5,474,720</b>	<b>7.0</b>	<b>6.8</b>	<b>8.4</b>	<b>9.9</b>
Coal.....	1,725,869	1,922,475	2,498,497	4.2	3.9	4.0	4.5
Petroleum.....	10,713	17,405	27,826	11.2	*	*	.1
Natural Gas.....	205,232	943,600	771,569	15.9	.5	2.0	1.4
Hydroelectric.....	307,659	259,807	128,346	-9.3	.7	.5	.2
Other Renewables.....	730,902	897,683	2,009,833	11.9	1.7	1.9	3.7
Other.....	0	0	38,650	NM	.0	.0	.1
<b>Total Electric Industry</b> .....	<b>43,897,655</b>	<b>48,017,905</b>	<b>55,050,995</b>	<b>2.5</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	28,125,703	31,806,877	35,655,529	2.7	64.1	66.2	64.8
Petroleum.....	607,700	667,271	873,065	4.1	1.4	1.4	1.6
Natural Gas.....	656,857	1,596,032	1,844,436	12.2	1.5	3.3	3.3
Nuclear.....	12,223,620	11,644,106	13,413,828	1.0	27.8	24.3	24.4
Hydroelectric.....	1,138,733	954,643	814,573	-3.7	2.6	2.0	1.5
Other Renewables.....	1,145,042	1,348,976	2,410,916	8.6	2.6	2.8	4.4
Other.....	0	0	38,650	NM	.0	.0	.1

See footnotes at end of tables.

**Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1994, 1998, and 2003**

Fuel, Quality	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Minnesota</b>				
Coal (cents per million Btu).....	113.9	106.9	W	W
Average heat value (Btu per pound).....	8,821	8,883	8,895	0.1
Average sulfur Content (percent).....	.5	.4	.5	-.1
Petroleum (cents per million Btu).....	85.5	74.5	W	W
Average heat value (Btu per gallon).....	73,031	72,783	133,093	6.9
Average sulfur Content (percent).....	5.2	5.4	5.7	1.1
Natural Gas (cents per million Btu).....	213.1	233.8	W	W
Average heat value (Btu per cubic foot).....	1,005	1,008	1,007	*

See footnotes at end of tables.

**Table 7. Electric Power Industry Emissions Estimates, 1994, 1998, and 2003**  
(Thousand Metric Tons)

Emission Type	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)
<b>Minnesota</b>				
Sulfur Dioxide				
Coal .....	117	127	83	-3.7
Petroleum .....	*	*	27	83.0
Natural Gas .....	—	—	*	NM
Other .....	8	2	3	-12.5
Total .....	126	130	113	-1.2
Nitrogen Oxide				
Coal .....	167	92	86	-7.1
Petroleum .....	*	*	3	47.9
Gas .....	2	2	2	-1.7
Other .....	4	4	4	-9
Total .....	173	98	94	-6.5
Carbon Dioxide				
Coal .....	31,830	33,771	37,048	1.7
Petroleum .....	644	717	881	3.5
Gas .....	881	1,402	1,220	3.7
Geothermal .....	—	—	—	NM
Other .....	52	46	487	28.2
Total .....	33,407	35,936	39,637	1.9

See footnotes at end of tables.

**Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1994, 1998, and 2003**

Sector	1994	1998	2003	Annual Growth Rate 1994-2003 (Percent)	Percentage Share		
					1994	1998	2003
<b>Minnesota</b>							
Retail Sales (thousand megawatthours)							
Residential .....	16,007	17,378	20,638	2.9	31.3	30.6	32.7
Commercial .....	8,997	10,436	20,533	9.6	17.6	18.4	32.5
Industrial .....	25,451	28,214	21,916	-1.6	49.8	49.7	34.7
Other .....	701	716	NA	NM	1.4	1.3	NA
Total .....	51,155	56,744	63,087	2.4	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential .....	1,146	1,273	1,579	3.6	39.8	39.3	41.6
Commercial .....	562	656	1,257	9.4	19.5	20.3	33.2
Industrial .....	1,122	1,257	955	-1.8	39.0	38.8	25.2
Other .....	51	54	NA	NM	1.8	1.7	NA
Total .....	2,880	3,239	3,791	3.1	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential .....	7.16	7.33	7.65	.7	NA	NA	NA
Commercial .....	6.25	6.28	6.12	-.2	NA	NA	NA
Industrial .....	4.41	4.45	4.36	-.1	NA	NA	NA
Other .....	7.21	7.48	NA	NM	NA	NA	NA
Total .....	5.63	5.71	6.01	.7	NA	NA	NA

See footnotes at end of tables.

**Table 9. Retail Electricity Sales Statistics, 2003**

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
<b>Minnesota</b>								
Number of Entities.....	5	125	1	47	1	NA	NA	179
Number of Retail Customers.....	1,398,351	336,550	5	675,996	1	NA	NA	2,410,903
Retail Sales (thousand megawatthours).....	41,531	8,889	54	12,028	586	NA	NA	63,087
Percentage of Retail Sales.....	65.83	14.09	.09	19.07	.93	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	2,379	547	1	847	17	NA	NA	3,791
Percentage of Revenue.....	62.77	14.44	.02	22.34	.44	NA	NA	100.00
Average Retail Price (cents/kWh).....	5.73	6.16	1.36	7.04	2.85	NA	NA	6.01

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 service. 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.

Other Notes: NA = Not applicable; NM = Not meaningful;

W = Withheld to avoid disclosure of individual company data;

\* = 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 4 "Other Renewables" includes generation from municipal solid waste; Table 7 "Other" includes emissions from municipal solid 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.