

Table 1. 2006 Summary Statistics

Item	Value	U.S. Rank
North Dakota		
NERC Region(s).....		MRO
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts)	4,839	41
Electric Utilities.....	4,636	35
Independent Power Producers & Combined Heat and Power.....	203	48
Net Generation (megawatthours).....	30,881,137	40
Electric Utilities.....	30,328,375	33
Independent Power Producers & Combined Heat and Power.....	552,762	48
Emissions (thousand metric tons)		
Sulfur Dioxide	119	22
Nitrogen Oxide.....	68	25
Carbon Dioxide.....	31,267	30
Sulfur Dioxide (lbs/MWh)	8.5	9
Nitrogen Oxide (lbs/MWh)	4.9	4
Carbon Dioxide (lbs/MWh).....	2,232	2
Total Retail Sales (megawatthours).....	11,245,238	45
Full Service Provider Sales (megawatthours)	11,245,238	41
Direct Use (megawatthours)	195,339	40
Average Retail Price (cents/kWh).....	6.21	44

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)
North Dakota			
1. Coal Creek	Coal	Great River Energy	1,116
2. Antelope Valley.....	Coal	Basin Electric Power Coop	900
3. Milton R Young.....	Coal	Minnkota Power Coop, Inc	705
4. Leland Olds.....	Coal	Basin Electric Power Coop	669
5. Garrison	Hydroelectric	USCE-Missouri River District	443
6. Coyote.....	Coal	Otter Tail Power Co	427
7. Stanton	Coal	Great River Energy	188
8. R M Heskett.....	Coal	MDU Resources Group Inc	103
9. FPL Energy North Dakota Wind I/II.....	Other Renewables	FPL Energy North Dakota Wind LLC	62
10. FPL Energy Oliver Wind I LLC.....	Other Renewables	FPL Energy Oliver County Wind	51

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
North Dakota						
1. Northern States Power Co	Investor-Owned	2,149,476	733,006	1,056,340	360,130	-
2. Otter Tail Power Co.....	Investor-Owned	1,539,462	536,172	942,983	60,307	-
3. MDU Resources Group Inc.....	Investor-Owned	1,446,938	547,535	757,469	141,934	-
4. Basin Electric Power Coop.....	Cooperative	958,453	-	-	958,453	-
5. Cass County Electric Coop Inc.....	Cooperative	805,191	443,491	301,928	59,772	-
Total Sales, Top Five Providers		6,899,520	2,260,204	3,058,720	1,580,596	-
Percent of Total State Sales		61	59	74	48	-

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
North Dakota										
Electric Utilities.....	4,525	4,485	4,677	4,659	4,562	4,673	4,625	4,636	99.4	95.8
Coal.....	3,876	3,862	4,107	4,084	4,107	4,105	4,106	4,106	85.1	84.9
Petroleum.....	94	69	64	69	72	71	75	75	2.1	1.6
Natural Gas.....	10	10	10	10	10	10	10	10	0.2	0.2
Hydroelectric.....	545	545	497	497	371	485	432	443	12.0	9.2
Other Renewables.....	-	-	-	-	3	3	3	3	-	0.1
Independent Power Producers and Combined Heat and Power	29	35	40	40	101	101	133	203	0.6	4.2
Coal.....	18	18	21	21	21	21	21	21	0.4	0.4
Petroleum.....	-	-	-	-	-	-	-	2	-	*
Natural Gas.....	11	-	-	-	-	-	-	-	0.2	-
Other Gases.....	-	7	8	8	8	8	8	8	-	0.2
Other Renewables.....	-	9	10	10	72	71	103	171	-	3.5
Total Electric Industry.....	4,553	4,520	4,717	4,699	4,663	4,774	4,758	4,839	100.0	100.0
Coal.....	3,894	3,880	4,128	4,105	4,129	4,126	4,127	4,127	85.5	85.3
Petroleum.....	94	69	64	69	72	71	75	77	2.1	1.6
Natural Gas.....	21	10	10	10	10	10	10	10	0.5	0.2
Other Gases.....	-	7	8	8	8	8	8	8	-	0.2
Hydroelectric.....	545	545	497	497	371	485	432	443	12.0	9.2
Other Renewables.....	-	9	10	10	74	74	105	174	-	3.6

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
North Dakota										
Electric Utilities.....	26,824,491	28,842,021	30,135,733	31,147,221	31,075,012	29,526,814	31,512,768	30,328,375	99.4	98.2
Coal.....	25,092,696	26,336,456	28,769,721	29,518,865	29,298,347	27,938,264	30,133,242	28,761,820	93.0	93.1
Petroleum.....	20,682	49,107	33,850	35,728	45,648	36,565	32,480	39,269	0.1	0.1
Natural Gas.....	-35	-943	86	12	-47	265	-29	49	*	*
Hydroelectric.....	1,711,148	2,457,401	1,332,076	1,592,616	1,723,904	1,545,864	1,341,824	1,521,034	6.3	4.9
Other Renewables.....	-	-	-	-	7,160	5,856	5,251	6,203	-	*
Independent Power Producers and Combined Heat and Power.....	168,770	162,226	196,339	159,091	247,117	409,292	419,847	552,762	0.6	1.8
Coal.....	96,307	87,415	107,454	92,659	128,964	125,960	125,517	117,171	0.4	0.4
Petroleum.....	20,865	8,584	14,036	2,848	6,244	1,912	1,727	3,460	0.1	*
Natural Gas.....	51,598	595	2,450	8,030	9,493	6,485	9,126	8,215	0.2	*
Other Gases.....	-	43,673	64,734	55,144	50,096	60,665	58,394	57,090	-	0.2
Other Renewables.....	-	21,959	7,665	410	52,320	214,270	225,083	366,826	-	1.2
Total Electric Industry.....	26,993,261	29,004,247	30,332,072	31,306,312	31,322,129	29,936,106	31,932,615	30,881,137	100.0	100.0
Coal.....	25,189,003	26,423,871	28,877,175	29,611,524	29,427,311	28,064,224	30,258,759	28,878,991	93.3	93.5
Petroleum.....	41,547	57,691	47,886	38,576	51,892	38,477	34,207	42,729	0.2	0.1
Natural Gas.....	51,563	-348	2,536	8,042	9,446	6,750	9,097	8,264	0.2	*
Other Gases.....	-	43,673	64,734	55,144	50,096	60,665	58,394	57,090	-	0.2
Hydroelectric.....	1,711,148	2,457,401	1,332,076	1,592,616	1,723,904	1,545,864	1,341,824	1,521,034	6.3	4.9
Other Renewables.....	-	21,959	7,665	410	59,480	220,126	230,334	373,029	-	1.2

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
North Dakota								
Coal (cents per million Btu)	69	73	74	74	74	77	82	88
Average heat value (Btu per pound)	6,636	6,585	6,560	6,564	6,549	6,602	6,686	6,651
Average sulfur Content (percent)	0.81	0.74	0.73	0.72	0.69	0.70	0.69	0.71
Petroleum (cents per million Btu)	499	418	639	573	676	863	1,244	1,486
Average heat value (Btu per gallon)	139,276	139,176	141,905	138,955	138,995	138,410	139,014	138,976
Average sulfur Content (percent)	0.69	0.38	0.36	0.37	0.37	0.36	0.37	0.37
Natural Gas (cents per million Btu)	386	349	687	248	744	778	954	1,013
Average heat value (Btu per cubic foot)	1,038	1,066	1,030	1,023	1,030	1,034	1,073	1,079

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
North Dakota								
Sulfur Dioxide								
Coal.....	133	123	142	128	128	137	125	119
Petroleum.....	1	*	*	*	*	*	*	*
Natural Gas.....	*	-	-	-	-	-	-	-
Other.....	-	-	*	*	*	*	*	*
Total.....	133	124	142	129	128	137	126	119
Nitrogen Oxide								
Coal.....	68	65	73	69	70	72	70	68
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	*	*	-	*	*	*	*	*
Other.....	-	-	*	1	*	*	*	*
Total.....	69	65	73	70	71	73	70	68
Carbon Dioxide								
Coal.....	28,020	29,264	31,729	32,087	31,669	30,322	32,775	31,203
Petroleum.....	111	80	75	43	63	39	37	45
Natural Gas.....	113	2	6	27	23	29	22	18
Total.....	28,244	29,345	31,810	32,156	31,754	30,390	32,833	31,267

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
North Dakota										
Retail Sales (thousand megawatthours)										
Residential.....	2,954	3,384	3,480	3,664	3,707	3,663	3,796	3,853	42.1	34.3
Commercial.....	1,795	2,237	3,071	3,404	3,800	3,843	3,994	4,127	25.6	36.7
Industrial.....	1,760	1,771	2,753	2,636	2,954	3,010	3,050	3,266	25.1	29.0
Other.....	506	490	506	516	NA	NA	NA	NA	7.2	NA
All Sectors.....	7,014	7,883	9,810	10,219	10,461	10,516	10,840	11,245	100.0	100.0
Retail Revenue (million dollars).....										
Residential.....	185	211	225	234	241	249	265	275	45.8	39.4
Commercial.....	116	139	184	199	214	225	244	260	28.7	37.2
Industrial.....	84	80	110	105	117	124	132	163	20.9	23.4
Other.....	18	21	19	19	NA	NA	NA	NA	4.6	NA
All Sectors.....	403	450	538	557	572	599	641	698	100.0	100.0
Average Retail Prices (cents/KWh)										
Residential.....	6.26	6.23	6.47	6.39	6.49	6.79	6.99	7.14	NA	NA
Commercial.....	6.45	6.20	5.99	5.85	5.64	5.86	6.11	6.30	NA	NA
Industrial.....	4.79	4.50	3.98	3.98	3.96	4.13	4.32	5.00	NA	NA
Other.....	3.66	4.21	3.79	3.68	NA	NA	NA	NA	NA	NA
All Sectors.....	5.75	5.71	5.48	5.45	5.47	5.69	5.92	6.21	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	3	12	1	23	NA	NA	NA	39
Number of Retail Customers	213,520	10,884	28	141,605	NA	NA	NA	366,037
Retail Sales (thousand megawatthours)	5,136	271	203	5,635	NA	NA	NA	11,245
Percentage of Retail Sales	45.67	2.41	1.81	50.11	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	341	15	4	339	NA	NA	NA	698
Percentage of Revenue	48.84	2.10	0.52	48.55	NA	NA	NA	100.00
Average Retail Price (cents/kWh)	6.64	5.41	1.78	6.01	NA	NA	NA	6.21

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
North Dakota								
Supply								
Generation								
Electric Utilities	26,824	28,842	30,136	31,147	31,075	29,527	31,513	30,328
Independent Power Producers	-	-	-	-	52	209	215	363
Electric Power Sector Generation Subtotal	26,824	28,842	30,136	31,147	31,127	29,735	31,728	30,692
Combined Heat and Power, Industrial	169	162	196	159	195	201	205	189
Industrial and Commercial Generation Subtotal	169	162	196	159	195	201	205	189
Total Net Generation	26,993	29,004	30,332	31,306	31,322	29,936	31,933	30,881
Total International Imports	250	785	1,510	1,414	1,251	1,513	2,151	2,016
Total Supply	27,243	29,790	31,842	32,720	32,573	31,449	34,084	32,897
Disposition								
Retail Sales								
Full Service Providers	7,014	7,883	9,810	10,219	10,461	10,516	10,840	11,245
Total Electric Industry Retail Sales	7,014	7,883	9,810	10,219	10,461	10,516	10,840	11,245
Direct Use	154	162	161	164	167	167	212	195
Total International Exports	230	124	940	1,238	1,664	1,409	457	1,252
Estimated Losses	526	598	1,404	1,996	2,137	2,132	1,580	1,567
Total Disposition	7,924	8,767	12,315	13,618	14,429	14,223	13,090	14,260
Net Interstate Trade	19,320	21,023	19,528	19,102	18,144	17,226	20,994	18,637
Net Trade Index (ratio)	3.44	3.40	2.59	2.40	2.26	2.21	2.60	2.31

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.