

Table 1. 2006 Summary Statistics

Item	Value	U.S. Rank
South Dakota		
NERC Region(s).....		MRO/WECC
Primary Energy Source.....		Hydroelectric
Net Summer Capacity (megawatts)	2,933	46
Electric Utilities.....	2,889	36
Independent Power Producers & Combined Heat and Power.....	44	50
Net Generation (megawatthours).....	7,132,243	47
Electric Utilities.....	6,989,062	38
Independent Power Producers & Combined Heat and Power.....	143,181	49
Emissions (thousand metric tons)		
Sulfur Dioxide	12	42
Nitrogen Oxide	14	42
Carbon Dioxide.....	3,526	47
Sulfur Dioxide (lbs/MWh)	3.6	27
Nitrogen Oxide (lbs/MWh)	4.3	5
Carbon Dioxide (lbs/MWh).....	1,090	39
Total Retail Sales (megawatthours)	10,056,387	48
Full Service Provider Sales (megawatthours)	10,056,387	44
Direct Use (megawatthours)	-	50
Average Retail Price (cents/kWh).....	6.70	40

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)
South Dakota			
1. Oahe.....	Hydroelectric	USCE-Missouri River District	640
2. Big Bend.....	Hydroelectric	USCE-Missouri River District	520
3. Big Stone.....	Coal	Otter Tail Power Co	471
4. Angus Anson.....	Gas	Northern States Power Co	384
5. Fort Randall.....	Hydroelectric	USCE-Missouri River District	356
6. Spirit Mound.....	Petroleum	Basin Electric Power Coop	100
7. Ben French.....	Coal	Black Hills Power Inc	100
8. Groton Generating Station.....	Gas	Basin Electric Power Coop	96
9. Huron.....	Gas	NorthWestern Energy	55
10. Watertown Power Plant.....	Petroleum	Missouri Basin Muni Power Agny	52

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
South Dakota						
1. Northern States Power Co	Investor-Owned	1,847,003	613,421	895,233	338,349	-
2. Black Hills Power Inc.....	Investor-Owned	1,455,456	479,628	676,900	298,928	-
3. NorthWestern Energy.....	Investor-Owned	1,269,343	473,718	590,331	205,294	-
4. Sioux Valley Energy.....	Cooperative	476,152	231,894	112,674	131,584	-
5. Otter Tail Power Co.....	Investor-Owned	365,025	108,784	256,241	-	-
Total Sales, Top Five Providers		5,412,979	1,907,445	2,531,379	974,155	-
Percent of Total State Sales		54	47	62	50	-

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
South Dakota										
Electric Utilities.....	2,708	2,950	2,814	2,854	2,650	2,618	2,759	2,889	100.0	98.5
Coal.....	495	475	477	477	476	477	482	492	18.3	16.8
Petroleum.....	298 ^R	291 ^R	296	238	237	228	221	229	11.0	7.8
Natural Gas	93 ^R	363 ^R	360	459	385	385	553	649	3.5	22.1
Hydroelectric	1,821	1,820	1,678	1,678	1,549	1,526	1,500	1,516	67.2	51.7
Other Renewables.....	-	-	3	3	3	3	3	3	-	0.1
Independent Power Producers and Combined Heat and Power	-	-	-	-	41	41	44	44	-	1.5
Petroleum.....	-	-	-	-	-	-	3	3	-	0.1
Other Renewables.....	-	-	-	-	41	41	41	41	-	1.4
Total Electric Industry.....	2,708	2,950	2,814	2,854	2,690	2,659	2,802	2,933	100.0	100.0
Coal.....	495	475	477	477	476	477	482	492	18.3	16.8
Petroleum.....	298 ^R	291 ^R	296	238	237	228	224	232	11.0	7.9
Natural Gas	93 ^R	363 ^R	360	459	385	385	553	649	3.5	22.1
Hydroelectric	1,821	1,820	1,678	1,678	1,549	1,526	1,500	1,516	67.2	51.7
Other Renewables.....	-	-	3	3	43	43	43	43	-	1.5

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
South Dakota										
Electric Utilities.....	6,427,473	8,811,793	7,400,743	7,721,958	7,904,755	7,357,617	6,368,442	6,989,062	100.0	98.0
Coal.....	2,472,514	2,721,295	3,611,680	3,271,523	3,431,203	3,620,001	2,996,347	3,315,911	38.5	46.5
Petroleum.....	8,149	17,488	51,524	4,961	16,058	22,771	20,785	4,660	0.1	0.1
Natural Gas.....	12,408	63,139	304,803	85,778	176,024	112,255	270,946	265,817	0.2	3.7
Hydroelectric.....	3,934,402	6,009,871	3,431,865	4,353,653	4,276,303	3,597,509	3,074,566	3,396,833	61.2	47.6
Other Renewables.....	-	-	871	6,043	5,167	5,081	5,777	5,784	-	0.1
Other.....	-	-	-	-	-	-	21	57	-	*
Independent Power Producers and Combined Heat and Power.....	-	-	-	-	39,082	152,597	152,327	143,181	-	2.0
Other Renewables.....	-	-	-	-	39,082	152,597	152,327	143,181	-	2.0
Total Electric Industry.....	6,427,473	8,811,793	7,400,743	7,721,958	7,943,837	7,510,214	6,520,769	7,132,243	100.0	100.0
Coal.....	2,472,514	2,721,295	3,611,680	3,271,523	3,431,203	3,620,001	2,996,347	3,315,911	38.5	46.5
Petroleum.....	8,149	17,488	51,524	4,961	16,058	22,771	20,785	4,660	0.1	0.1
Natural Gas.....	12,408	63,139	304,803	85,778	176,024	112,255	270,946	265,817	0.2	3.7
Hydroelectric.....	3,934,402	6,009,871	3,431,865	4,353,653	4,276,303	3,597,509	3,074,566	3,396,833	61.2	47.6
Other Renewables.....	-	-	871	6,043	44,249	157,678	158,104	148,965	-	2.1
Other.....	-	-	-	-	-	-	21	57	-	*

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
South Dakota								
Coal (cents per million Btu)	115	103	103	130	134	139	142	151
Average heat value (Btu per pound)	6,096	6,972	8,540	8,550	8,560	8,523	8,711	8,534
Average sulfur Content (percent)	0.90	0.87	0.33	0.37	0.33	0.34	0.31	0.32
Petroleum (cents per million Btu)	565	-	-	-	804	822	1,245	1,546
Average heat value (Btu per gallon)	140,000	-	-	-	138,210	138,536	139,083	138,988
Average sulfur Content (percent)	0.31	-	-	-	0.22	0.18	0.22	0.25
Natural Gas (cents per million Btu)	-	158	-	-	-	-	-	-
Average heat value (Btu per cubic foot)	-	1,002	-	-	-	-	-	-

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
South Dakota								
Sulfur Dioxide								
Coal.....	28	25	13	23	11	13	10	11
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	-	-	*	-	*	-	-	-
Other.....	-	*	-	1	*	1	1	1
Total.....	28	25	13	24	12	14	10	12
Nitrogen Oxide								
Coal.....	9	8	15	24	15	16	13	13
Petroleum.....	*	*	*	*	*	*	*	*
Natural Gas.....	*	*	*	*	*	*	*	*
Other.....	-	*	-	*	*	*	*	*
Total.....	9	9	16	25	15	16	13	14
Carbon Dioxide								
Coal.....	2,710	2,853	3,608	3,321	3,518	3,770	3,088	3,340
Petroleum.....	14	20	45	8	18	24	22	8
Natural Gas.....	13	49	244	66	115	87	190	178
Other Renewables.....	-	-	-	-	-	-	*	*
Total.....	2,736	2,922	3,898	3,394	3,651	3,881	3,300	3,526

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
South Dakota										
Retail Sales (thousand megawatthours)										
Residential.....	2,866	3,268	3,580	3,733	3,740	3,696	3,973	4,051	45.3	40.3
Commercial.....	1,450	2,088	2,915	3,062	3,713	3,627	3,998	4,054	22.9	40.3
Industrial.....	1,657	1,722	1,666	1,604	1,627	1,891	1,840	1,952	26.2	19.4
Other.....	361	335	465	538	NA	NA	NA	NA	5.7	NA
All Sectors.....	6,334	7,414	8,627	8,937	9,080	9,214	9,811	10,056	100.0	100.0
Retail Revenue (million dollars).....										
Residential.....	199	231	266	276	280	283	309	317	51.3	47.1
Commercial.....	97	137	191	191	224	224	248	262	25.0	38.9
Industrial.....	77	76	74	73	73	87	91	94	19.9	14.0
Other.....	15	15	17	20	NA	NA	NA	NA	3.8	NA
All Sectors.....	388	460	548	560	577	594	648	674	100.0	100.0
Average Retail Prices (cents/KWh)										
Residential.....	6.95	7.08	7.42	7.40	7.47	7.65	7.77	7.83	NA	NA
Commercial.....	6.68	6.55	6.55	6.24	6.04	6.18	6.20	6.47	NA	NA
Industrial.....	4.66	4.43	4.46	4.54	4.51	4.59	4.95	4.84	NA	NA
Other.....	4.11	4.58	3.71	3.63	NA	NA	NA	NA	NA	NA
All Sectors.....	6.13	6.20	6.35	6.26	6.35	6.44	6.60	6.70	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	6	35	1	30	NA	NA	NA	72
Number of Retail Customers	221,069	57,407	21	140,999	NA	NA	NA	419,496
Retail Sales (thousand megawatthours)	5,265	1,413	316	3,061	NA	NA	NA	10,056
Percentage of Retail Sales	52.36	14.05	3.15	30.44	NA	NA	NA	100.00
Revenue from Retail Sales (million dollars)	378	77	6	213	NA	NA	NA	674
Percentage of Revenue	56.07	11.47	0.87	31.60	NA	NA	NA	100.00
Average Retail Price (cents/kWh)	7.18	5.47	1.84	6.96	NA	NA	NA	6.70

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
South Dakota								
Supply								
Generation								
Electric Utilities	6,427	8,812	7,401	7,722	7,905	7,358	6,368	6,989
Independent Power Producers	-	-	-	-	39	153	152	143
Electric Power Sector Generation Subtotal	6,427	8,812	7,401	7,722	7,944	7,510	6,521	7,132
Total Net Generation	6,427	8,812	7,401	7,722	7,944	7,510	6,521	7,132
Total International Imports	-	-	*	*	-	-	-	-
Total Supply	6,427	8,812	7,401	7,722	7,944	7,510	6,521	7,132
Disposition								
Retail Sales								
Full Service Providers	6,334	7,414	8,627	8,937	9,080	9,214	9,811	10,056
Total Electric Industry Retail Sales	6,334	7,414	8,627	8,937	9,080	9,214	9,811	10,056
Total International Exports	-	-	-	-	-	1	*	-
Estimated Losses	475	563	553	858	947	1,094	908	872
Total Disposition	6,809	7,976	9,180	9,795	10,027	10,308	10,719	10,928
Net Interstate Trade	-381	835	-1,779	-2,073	-2,083	-2,798	-4,198	-3,796
Net Trade Index (ratio)	0.94	1.10	0.81	0.79	0.79	0.73	0.61	0.65

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.