

**Table 1. 2006 Summary Statistics**

Item	Value	U.S. Rank
<b>Iowa</b>		
NERC Region(s).....		<b>MRO</b>
Primary Energy Source.....		<b>Coal</b>
Net Summer Capacity (megawatts) .....	<b>11,143</b>	<b>32</b>
Electric Utilities.....	9,562	26
Independent Power Producers & Combined Heat and Power.....	1,581	37
Net Generation (megawatthours).....	<b>45,483,462</b>	<b>33</b>
Electric Utilities.....	37,494,674	29
Independent Power Producers & Combined Heat and Power.....	7,988,788	32
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	132	19
Nitrogen Oxide.....	64	27
Carbon Dioxide.....	40,577	25
Sulfur Dioxide (lbs/MWh) .....	6.4	14
Nitrogen Oxide (lbs/MWh) .....	3.1	17
Carbon Dioxide (lbs/MWh).....	1,967	7
Total Retail Sales (megawatthours) .....	<b>43,336,835</b>	<b>31</b>
Full Service Provider Sales (megawatthours) .....	43,336,835	29
Direct Use (megawatthours) .....	<b>1,595,367</b>	<b>22</b>
Average Retail Price (cents/kWh).....	<b>7.01</b>	<b>32</b>

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)
<b>Iowa</b>			
1. George Neal North.....	Coal	MidAmerican Energy Co	950
2. Council Bluffs.....	Coal	MidAmerican Energy Co	823
3. Louisa .....	Coal	MidAmerican Energy Co	700
4. Ottumwa .....	Coal	Interstate Power and Light Co	673
5. George Neal South.....	Coal	MidAmerican Energy Co	632
6. Duane Arnold .....	Nuclear	FPL Energy Duane Arnold Energy Cntr LLC	581
7. Emery Station .....	Gas	Interstate Power and Light Co	559
8. Greater Des Moines.....	Gas	MidAmerican Energy Co	491
9. Lansing .....	Coal	Interstate Power and Light Co	325
10. Burlington.....	Coal	Interstate Power and Light Co	276

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
<b>Iowa</b>						
1. MidAmerican Energy Co .....	Investor-Owned	17,751,065	5,086,363	4,875,621	7,789,081	-
2. Interstate Power and Light Co .....	Investor-Owned	14,829,537	3,750,503	3,699,827	7,379,207	-
3. Board of Water Electric & Communications .....	Public	863,716	98,835	179,781	585,100	-
4. Ames City of .....	Public	605,888	154,996	258,890	192,002	-
5. Eastern Iowa Light & Power Coop .....	Cooperative	527,194	268,880	38,870	219,444	-
Total Sales, Top Five Providers .....		34,577,400	9,359,577	9,052,989	16,164,834	-
Percent of Total State Sales .....		80	70	78	88	-

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
<b>Iowa</b>										
<b>Electric Utilities.....</b>	<b>7,952</b>	<b>8,237</b>	<b>8,352</b>	<b>8,407</b>	<b>9,093</b>	<b>9,895</b>	<b>10,090<sup>R</sup></b>	<b>9,562</b>	<b>95.7</b>	<b>85.8</b>
Coal.....	5,860	5,995	5,668	5,620	5,666	5,741	5,705	5,666	70.6	50.8
Petroleum.....	659 <sup>R</sup>	755 <sup>R</sup>	1,012	980	912	908	936 <sup>R</sup>	935	7.9	8.4
Natural Gas .....	779 <sup>R</sup>	825 <sup>R</sup>	916	1,007	1,710	2,381	2,376	2,370	9.4	21.3
Nuclear.....	530	528	520	566	562	563	581	-	6.4	-
Hydroelectric .....	124	134	129	129	136	138	129	129	1.5	1.2
Other Renewables.....	-	*	107	107	107	165	363 <sup>R</sup>	462	-	4.1
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>353</b>	<b>356</b>	<b>831</b>	<b>931</b>	<b>981</b>	<b>978</b>	<b>998<sup>R</sup></b>	<b>1,581</b>	<b>4.3</b>	<b>14.2</b>
Coal.....	232	288	419	419	420	417	432	432	2.8	3.9
Petroleum.....	55	53	81	82	89	89	92 <sup>R</sup>	92	0.7	0.8
Natural Gas .....	61	3	3	4	5	5	5	1	0.7	*
Nuclear.....	-	-	-	-	-	-	-	581	-	5.2
Hydroelectric .....	5	5	2	2	2	2	2	2	0.1	*
Other Renewables.....	-	6	324	422	466	466	467 <sup>R</sup>	474	-	4.3
<b>Total Electric Industry.....</b>	<b>8,306</b>	<b>8,593</b>	<b>9,183</b>	<b>9,338</b>	<b>10,074</b>	<b>10,873</b>	<b>11,087</b>	<b>11,143</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	6,092	6,283	6,088	6,039	6,086	6,157	6,137	6,097	73.4	54.7
Petroleum.....	714 <sup>R</sup>	808 <sup>R</sup>	1,093	1,062	1,000	996	1,028	1,027	8.6	9.2
Natural Gas .....	840 <sup>R</sup>	828 <sup>R</sup>	920	1,011	1,715	2,386	2,381	2,371	10.1	21.3
Nuclear.....	530	528	520	566	562	563	581	581	6.4	5.2
Hydroelectric .....	130	139	131	131	138	140	131	131	1.6	1.2
Other Renewables.....	-	7	431	529	573	630	830	936	-	8.4

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
<b>Iowa</b>										
<b>Electric Utilities.....</b>	<b>29,047,940</b>	<b>33,501,928</b>	<b>38,755,520</b>	<b>40,051,665</b>	<b>39,485,141</b>	<b>40,578,049</b>	<b>41,559,024</b>	<b>37,494,674</b>	<b>96.7</b>	<b>82.4</b>
Coal.....	24,879,567	28,426,101	33,471,603	34,033,119	34,288,694	33,757,265	32,807,567	32,855,636	82.8	72.2
Petroleum.....	51,315	57,750	94,796	55,552	91,173	99,255	140,559	197,700	0.2	0.4
Natural Gas.....	231,263	277,324	454,476	406,796	279,206	814,295	2,473,558	2,393,816	0.8	5.3
Nuclear.....	3,011,572	3,729,970	3,852,722	4,573,958	3,987,657	4,928,948	4,538,313	-	10.0	-
Hydroelectric.....	856,848	991,088	830,258	936,688	780,322	936,999	950,094	900,488	2.9	2.0
Other Renewables.....	17,375	19,695	43,957	45,552	48,464	29,404	637,360	1,136,608	0.1	2.5
Other.....	-	-	7,708	-	9,625	11,883	11,573	10,426	-	*
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>996,566</b>	<b>1,251,000</b>	<b>1,902,992</b>	<b>2,476,720</b>	<b>2,631,051</b>	<b>2,670,140</b>	<b>2,597,136<sup>R</sup></b>	<b>7,988,788</b>	<b>3.3</b>	<b>17.6</b>
Coal.....	872,374	983,603	1,193,492	1,338,940	1,531,251	1,515,020	1,444,825	1,549,657	2.9	3.4
Petroleum.....	3,156	8,111	7,832	8,312	10,162	9,309	8,978 <sup>R</sup>	10,585	*	*
Natural Gas.....	102,127	202,565	138,376	147,923	33,690	10,376	7,284	6,133	0.3	*
Nuclear.....	-	-	-	-	-	-	-	5,095,442	-	11.2
Hydroelectric.....	18,266	11,886	14,896	9,695	8,271	8,960	9,432	8,860	0.1	*
Other Renewables.....	643	44,835	547,655	971,616	1,047,676	1,126,476	1,126,617	1,318,112	*	2.9
Other.....	-	-	741	234	-	-	-	-	-	-
<b>Total Electric Industry.....</b>	<b>30,044,506</b>	<b>34,752,928</b>	<b>40,658,512</b>	<b>42,528,385</b>	<b>42,116,192</b>	<b>43,248,189</b>	<b>44,156,160<sup>R</sup></b>	<b>45,483,462</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	25,751,941	29,409,704	34,665,095	35,372,059	35,819,945	35,272,285	34,252,392	34,405,293	85.7	75.6
Petroleum.....	54,471	65,861	102,628	63,864	101,335	108,564	149,537 <sup>R</sup>	208,285	0.2	0.5
Natural Gas.....	333,390	479,889	592,852	554,719	312,896	824,671	2,480,842	2,399,949	1.1	5.3
Nuclear.....	3,011,572	3,729,970	3,852,722	4,573,958	3,987,657	4,928,948	4,538,313	5,095,442	10.0	11.2
Hydroelectric.....	875,114	1,002,974	845,154	946,383	788,593	945,959	959,526	909,348	2.9	2.0
Other Renewables.....	18,018	64,530	591,612	1,017,168	1,096,140	1,155,880	1,763,977	2,454,720	0.1	5.4
Other.....	-	-	8,449	234	9,625	11,883	11,573	10,426	-	*

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
<b>Iowa</b>								
Coal (cents per million Btu)	112	99	81	W	W	W	W	W
Average heat value (Btu per pound)	8,892	8,678	9,000	8,648	8,705	8,665	8,668	8,612
Average sulfur Content (percent)	0.70	0.49	0.37	0.39	0.43	0.44	0.42	0.44
Petroleum (cents per million Btu)	518	96	617	579	635	459	1,077	474
Average heat value (Btu per gallon)	137,943	77,324	139,524	139,667	139,171	137,162	139,200	134,952
Average sulfur Content (percent)	0.14	5.09	0.04	0.01	0.03	2.08	0.28	4.09
Natural Gas (cents per million Btu)	305	271	477	W	593	712	878	778
Average heat value (Btu per cubic foot)	1,006	1,005	1,010	1,002	1,004	1,003	1,007	1,009

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
<b>Iowa</b>								
<b>Sulfur Dioxide .....</b>								
Coal.....	182	171	139	134	138	135	135	131
Petroleum.....	*	12	1	1	1	1	1	1
Natural Gas.....	*	*	*	*	*	*	*	*
Other.....	*	*	*	*	*	*	*	*
Total.....	183	183	140	135	139	136	136	132
<b>Nitrogen Oxide .....</b>								
Coal.....	151	161	76	76	76	76	71	61
Petroleum.....	*	1	1	1	1	1	1	1
Natural Gas.....	1	2	2	2	1	1	1	1
Other.....	*	*	1	1	1	1	1	1
Total.....	152	164	79	80	79	79	75	64
<b>Carbon Dioxide .....</b>								
Coal.....	28,927	33,277	39,847	39,894	40,202	40,577	38,873	39,256
Petroleum.....	61	78	114	81	121	137	177	255
Natural Gas.....	510	915	890	935	296	464	1,144	1,055
Other Renewables.....	1	1	10	1	15	17	12	11
Total.....	29,500	34,270	40,861	40,912	40,634	41,196	40,207	40,577

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
<b>Iowa</b>										
<b>Retail Sales (thousand megawatthours) .....</b>										
Residential.....	10,513	11,640	12,430	12,921	12,768	12,625	13,571	13,344	35.7	30.8
Commercial.....	6,727	7,607	8,512	8,803	11,637	10,840	11,271	11,660	22.9	26.9
Industrial.....	11,392	13,771	16,238	16,548	16,803	17,437	17,915	18,331	38.7	42.3
Other.....	804	1,284	2,264	2,626	NA	NA	NA	NA	2.7	NA
Transportation.....	NA	NA	NA	NA	NA	NA	NA	1	NA	*
All Sectors.....	29,437	34,301	39,444	40,898	41,207	40,903	42,757	43,337	100.0	100.0
<b>Retail Revenue (million dollars).....</b>										
Residential.....	821	959	1,045	1,079	1,094	1,132	1,258	1,285	47.1	42.3
Commercial.....	422	490	570	578	726	731	783	850	24.2	28.0
Industrial.....	453	542	679	672	699	756	818	902	26.0	29.7
Other.....	49	79	128	129	NA	NA	NA	NA	2.8	NA
Transportation.....	NA	NA	NA	NA	NA	NA	NA	*	NA	*
All Sectors.....	1,745	2,069	2,422	2,458	2,519	2,619	2,859	3,038	100.0	100.0
<b>Average Retail Prices (cents/KWh) .....</b>										
Residential.....	7.81	8.24	8.41	8.35	8.57	8.96	9.27	9.63	NA	NA
Commercial.....	6.27	6.44	6.69	6.56	6.24	6.75	6.95	7.29	NA	NA
Industrial.....	3.98	3.94	4.18	4.06	4.16	4.33	4.56	4.92	NA	NA
Other.....	6.04	6.13	5.67	4.92	NA	NA	NA	NA	NA	NA
Transportation.....	NA	NA	NA	NA	NA	NA	NA	7.05	NA	NA
All Sectors.....	5.93	6.03	6.14	6.01	6.11	6.40	6.69	7.01	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	137	NA	44	1	NA	NA	185
Number of Retail Customers	1,104,354	207,053	NA	214,938	162	NA	NA	1,526,507
Retail Sales (thousand megawatthours)	32,675	5,253	NA	5,109	300	NA	NA	43,337
Percentage of Retail Sales	75.40	12.12	NA	11.79	0.69	NA	NA	100.00
Revenue from Retail Sales (million dollars)	2,252	352	NA	417	16	NA	NA	3,038
Percentage of Revenue	74.13	11.60	NA	13.74	0.53	NA	NA	100.00
Average Retail Price (cents/kWh)	6.89	6.71	NA	8.17	5.41	NA	NA	7.01

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 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
<b>Supply</b>								
<b>Generation</b>								
Electric Utilities	29,048	33,502	38,756	40,052	39,485	40,578	41,559	37,495
Independent Power Producers	20	16	495	917	1,033	1,107	1,103	6,389
Combined Heat and Power, Electric	124	144	173	167	-	-	-	-
<b>Electric Power Sector Generation Subtotal</b>	<b>29,192</b>	<b>33,662</b>	<b>39,424</b>	<b>41,136</b>	<b>40,518</b>	<b>41,685</b>	<b>42,662</b>	<b>43,884</b>
Combined Heat and Power, Commercial	17	79	130	129	261	270	278	278
Combined Heat and Power, Industrial	835	1,011	1,105	1,263	1,337	1,294	1,216	1,321
<b>Industrial and Commercial Generation Subtotal</b>	<b>853</b>	<b>1,091</b>	<b>1,235</b>	<b>1,392</b>	<b>1,598</b>	<b>1,564</b>	<b>1,494</b>	<b>1,599</b>
<b>Total Net Generation</b>	<b>30,045</b>	<b>34,753</b>	<b>40,659</b>	<b>42,528</b>	<b>42,116</b>	<b>43,248</b>	<b>44,156</b>	<b>45,483</b>
<b>Total International Imports</b>	-	-	5	-	-	*	*	-
<b>Total Supply</b>	<b>30,045</b>	<b>34,753</b>	<b>40,664</b>	<b>42,528</b>	<b>42,116</b>	<b>43,248</b>	<b>44,156</b>	<b>45,483</b>
<b>Disposition</b>								
<b>Retail Sales</b>								
Full Service Providers	29,437	34,301	39,444	40,898	40,969	40,616	42,757	43,037
Facility Direct Retail Sales	-	-	-	-	238	287	-	300
<b>Total Electric Industry Retail Sales</b>	<b>29,437</b>	<b>34,301</b>	<b>39,444</b>	<b>40,898</b>	<b>41,207</b>	<b>40,903</b>	<b>42,757</b>	<b>43,337</b>
<b>Direct Use</b>	<b>977</b>	<b>1,201</b>	<b>1,306</b>	<b>1,334</b>	<b>1,351</b>	<b>1,352</b>	<b>1,313</b>	<b>1,595</b>
<b>Total International Exports</b>	-	-	-	-	1	1	1	*
<b>Estimated Losses</b>	<b>2,207</b>	<b>2,604</b>	<b>2,519</b>	<b>2,669</b>	<b>2,374</b>	<b>2,671</b>	<b>2,436</b>	<b>2,902</b>
<b>Total Disposition</b>	<b>32,622</b>	<b>38,106</b>	<b>43,268</b>	<b>44,900</b>	<b>44,933</b>	<b>44,927</b>	<b>46,507</b>	<b>47,834</b>
<b>Net Interstate Trade</b>	<b>-2,577</b>	<b>-3,353</b>	<b>-2,604</b>	<b>-2,372</b>	<b>-2,817</b>	<b>-1,679</b>	<b>-2,351</b>	<b>-2,351</b>
<b>Net Trade Index (ratio)</b>	<b>0.92</b>	<b>0.91</b>	<b>0.94</b>	<b>0.95</b>	<b>0.94</b>	<b>0.96</b>	<b>0.95</b>	<b>0.95</b>

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.