

Table 1. 2003 Summary Statistics

Item	Value	U.S. Rank
Iowa		
NERC Region(s).....		MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	10,074	33
Electric Utilities	9,092	27
Independent Power Producers & Combined Heat and Power	982	39
Net Generation (megawatthours).....	42,116,192	33
Electric Utilities	39,485,141	27
Independent Power Producers & Combined Heat and Power	2,631,051	40
Emissions (thousand metric tons)		
Sulfur Dioxide	139	21
Nitrogen Oxide	78	24
Carbon Dioxide	40,616	23
Sulfur Dioxide (lbs/MWh).....	7.3	14
Nitrogen Oxide (lbs/MWh).....	4.1	9
Carbon Dioxide (lbs/MWh).....	2,126	4
Total Retail Sales (megawatthours).....	41,207,284	31
Full Service Provider Sales (megawatthours).....	41,207,284	31
Direct Use (megawatthours).....	1,350,833	27
Average Retail Price (cents/kWh).....	6.11	36

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2003

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Iowa			
1. George Neal North.....	Gas, Coal	MidAmerican Energy Co	950
2. Council Bluffs	Petroleum, Gas, Coal	MidAmerican Energy Co	823
3. Ottumwa	Petroleum, Coal	Interstate Power and Light Co	731
4. Louisa	Petroleum, Gas, Coal	MidAmerican Energy Co	700
5. George Neal South.....	Petroleum, Coal	MidAmerican Energy Co	644
6. Duane Arnold	Nuclear	Interstate Power and Light Co	562
7. Greater Des Moines	Gas	MidAmerican Energy Co	542
8. Lansing	Petroleum, Coal	Interstate Power and Light Co	330
9. Burlington.....	Gas, Coal	Interstate Power and Light Co	285
10. Archer Daniels Midland Cedar Rapids.....	Coal	Archer Daniels Midland Co	260

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
Iowa						
1. MidAmerican Energy Co	Investor-Owned	16,372,304	4,678,734	5,450,310	6,243,260	0
2. Interstate Power and Light Co	Investor-Owned	14,368,220	3,761,671	3,373,987	7,232,562	0
3. Eastern Iowa Light & Power Coop	Cooperative	1,217,700	261,048	36,437	920,215	0
4. Muscatine City of	Public	818,064	96,134	172,091	549,839	0
5. Ames City of	Public	587,869	144,805	305,792	137,272	0
Total Sales, Top Five Providers.....		33,364,157	8,942,392	9,338,617	15,083,148	0
Percent of Total State Sales		81	70	80	90	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
Iowa							
Electric Utilities	8,217	8,367	9,092	1.1	95.2	95.9	90.3
Coal.....	5,975	5,717	5,666	-6	69.2	65.5	56.2
Petroleum.....	512	662	779	4.8	5.9	7.6	7.7
Natural Gas.....	139	133	640	18.5	1.6	1.5	6.4
Dual Fired.....	951	988	1,202	2.6	11.0	11.3	11.9
Nuclear.....	515	520	562	1.0	6.0	6.0	5.6
Hydroelectric.....	125	131	136	.9	1.4	1.5	1.3
Other Renewables.....	0	0	107	NM	.0	.0	1.1
Other.....	0	216	0	NM	.0	2.5	.0
Independent Power Producers and Combined							
Heat and Power	416	359	982	10.0	4.8	4.1	9.7
Coal.....	259	275	420	5.5	3.0	3.2	4.2
Petroleum.....	82	71	89	.9	.9	.8	.9
Natural Gas.....	0	0	5	NM	.0	.0	*
Dual Fired.....	63	0	0	NM	.7	.0	.0
Hydroelectric.....	5	5	2	-9.7	.1	.1	*
Other Renewables.....	7	8	466	59.4	.1	.1	4.6
Total Electric Industry	8,634	8,728	10,074	1.7	100.0	100.0	100.0
Coal.....	6,234	5,993	6,086	-3	72.2	68.7	60.4
Petroleum.....	594	733	868	4.3	6.9	8.4	8.6
Natural Gas.....	140	133	645	18.5	1.6	1.5	6.4
Dual Fired.....	1,014	988	1,202	1.9	11.7	11.3	11.9
Nuclear.....	515	520	562	1.0	6.0	6.0	5.6
Hydroelectric.....	130	136	138	.7	1.5	1.6	1.4
Other Renewables.....	7	9	573	63.1	.1	.1	5.7
Other.....	0	216	0	NM	.0	2.5	.0

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
Iowa							
Electric Utilities	31,963,757	37,085,476	39,485,141	2.4	96.4	96.5	93.8
Coal.....	26,497,930	31,883,678	34,288,694	2.9	79.9	82.9	81.4
Petroleum.....	78,291	109,620	91,173	1.7	.2	.3	.2
Natural Gas.....	199,272	412,281	279,206	3.8	.6	1.1	.7
Nuclear.....	4,107,383	3,767,513	3,987,657	-3	12.4	9.8	9.5
Hydroelectric.....	1,052,870	893,219	780,322	-3.3	3.2	2.3	1.9
Other Renewables.....	28,011	19,165	58,089	8.4	.1	*	.1
Independent Power Producers and Combined							
Heat and Power	1,203,249	1,363,313	2,631,051	9.1	3.6	3.5	6.2
Coal.....	952,962	1,116,293	1,531,251	5.4	2.9	2.9	3.6
Petroleum.....	23,499	6,923	10,162	-8.9	.1	*	*
Natural Gas.....	177,213	148,611	33,690	-16.8	.5	.4	.1
Hydroelectric.....	18,153	19,696	8,271	-8.4	.1	.1	*
Other Renewables.....	31,422	71,790	1,047,676	47.6	.1	.2	2.5
Total Electric Industry	33,167,006	38,448,789	42,116,192	2.7	100.0	100.0	100.0
Coal.....	27,450,892	32,999,971	35,819,945	3.0	82.8	85.8	85.0
Petroleum.....	101,790	116,543	101,335	*	.3	.3	.2
Natural Gas.....	376,485	560,892	312,896	-2.0	1.1	1.5	.7
Nuclear.....	4,107,383	3,767,513	3,987,657	-3	12.4	9.8	9.5
Hydroelectric.....	1,071,023	912,915	788,593	-3.3	3.2	2.4	1.9
Other Renewables.....	59,433	90,955	1,105,765	38.4	.2	.2	2.6

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)
Iowa				
Coal (cents per million Btu).....	99.0	87.6	W	W
Average heat value (Btu per pound).....	8,783	8,636	8,705	-0.1
Average sulfur Content (percent).....	.6	.4	.4	-3.0
Petroleum (cents per million Btu).....	143.6	141.2	634.6	17.9
Average heat value (Btu per gallon).....	86,797	88,179	139,172	5.4
Average sulfur Content (percent).....	4.6	4.1	*	-42.8
Natural Gas (cents per million Btu).....	316.2	305.9	593.3	7.2
Average heat value (Btu per cubic foot).....	1,006	1,003	1,004	*

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)
Iowa				
Sulfur Dioxide				
Coal	180	153	138	-3.0
Petroleum	11	7	1	-21.8
Natural Gas	—	—	—	NM
Other	*	*	*	-8.1
Total	191	160	139	-3.5
Nitrogen Oxide				
Coal	152	85	77	-7.3
Petroleum	1	*	*	-16.9
Gas	1	1	1	-6.4
Other	*	1	*	-3.9
Total	155	87	78	-7.3
Carbon Dioxide				
Coal	31,594	36,974	40,185	2.7
Petroleum	184	129	121	-4.5
Gas	775	518	295	-10.2
Geothermal	—	—	—	NM
Other	*	—	15	68.2
Total	32,553	37,622	40,616	2.5

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
Iowa							
Retail Sales (thousand megawatthours)							
Residential	11,062	11,855	12,768	1.6	33.5	31.8	31.0
Commercial	7,477	8,034	11,637	5.0	22.6	21.5	28.2
Industrial	13,224	16,079	16,803	2.7	40.0	43.1	40.8
Other	1,276	1,350	NA	NM	3.9	3.6	NA
Total	33,039	37,318	41,207	2.5	100.0	100.0	100.0
Retail Revenue (million dollars)							
Residential	895	993	1,094	2.3	45.7	44.0	43.4
Commercial	473	536	726	4.9	24.2	23.8	28.8
Industrial	513	641	699	3.5	26.2	28.4	27.8
Other	76	84	NA	NM	3.9	3.7	NA
Total	1,957	2,255	2,519	2.8	100.0	100.0	100.0
Average Retail Price (cents/kWh)							
Residential	8.09	8.38	8.57	.6	NA	NA	NA
Commercial	6.32	6.67	6.24	-.1	NA	NA	NA
Industrial	3.88	3.99	4.16	.8	NA	NA	NA
Other	5.96	6.21	NA	NM	NA	NA	NA
Total	5.92	6.04	6.11	.3	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	
Iowa								
Number of Entities.....	3	138	NA	44	1	NA	NA	186
Number of Retail Customers.....	1,068,855	202,844	NA	205,658	161	NA	NA	1,477,518
Retail Sales (thousand megawatthours)	30,834	4,961	NA	5,174	238	NA	NA	41,207
Percentage of Retail Sales	74.83	12.04	NA	12.56	.58	NA	NA	100.00
Revenue from Retail Sales (million dollars)	1,853	290	NA	362	14	NA	NA	2,519
Percentage of Revenue.....	73.56	11.53	NA	14.37	.55	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.01	5.85	NA	7.00	5.79	NA	NA	6.11

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.