

Table 1. 2002 Summary Statistics

Item	Value	U.S. Rank
Iowa		
NERC Region(s).....		MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	9,338	33
Electric Utilities	8,407	27
Independent Power Producers & Combined Heat and Power	931	39
Net Generation (megawatthours)	42,528,385	33
Electric Utilities	40,051,665	27
Independent Power Producers & Combined Heat and Power	2,476,720	40
Emissions (thousand short tons)		
Sulfur Dioxide	148	22
Nitrogen Oxide.....	86	26
Carbon Dioxide.....	42,069	25
Sulfur Dioxide/sq. mile.....	3	26
Nitrogen Oxide/sq. mile.....	2	26
Carbon Dioxide/sq. mile.....	753	29
Utility and ESP Retail Electricity Sales (megawatthours).....	40,897,543	31
Utility Retail Electricity Sales (megawatthours)	40,897,543	31
Direct Use (megawatthours).....	1,350,932	23
Average Retail Price (cents/kWh).....	6.01	33

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2002

Plant	Energy Sources	Operating Company	Net Capability (MW)
Iowa			
1. George Neal North	Gas, Coal	MidAmerican Energy Co	950
2. Council Bluffs.....	Gas, Petroleum, Coal	MidAmerican Energy Co	806
3. Ottumwa.....	Petroleum, Coal	Interstate Power and Light	720
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	566
7. Lansing.....	Petroleum, Coal	Interstate Power and Light	319
8. Burlington	Gas, Coal	Interstate Power and Light	285
9. Archer Daniels Midlan	Coal	Archer Daniels Midland Co	260
10. Milton L Kapp	Gas, Coal	Interstate Power and Light	236

See footnotes at end of tables.

Table 3. Top Five Utilities Ranked by Retail Sales, 2002
(Megawatthours)

Utility	All Sectors	Residential	Commercial	Industrial	Other
Iowa					
A. MidAmerican Energy Company	16,389,557	4,759,645	3,445,081	5,995,047	2,189,784
B. Interstate Power & Light Co.....	14,375,098	3,787,754	3,199,333	7,316,726	71,285
C. Eastern Iowa Light&Power Coop	1,203,905	261,867	32,278	906,201	3,559
D. Muscatine Power and Water	826,189	99,460	147,408	554,931	24,390
E. City of Ames.....	577,353	145,094	204,330	127,960	99,969
Total	33,372,102	9,053,820	7,028,430	14,900,865	2,388,987
Percentage of Utility Sales.....	82	70	80	90	91

See footnotes at end of tables.

Table 4. Electric Power Industry Generating Capability by Primary Energy Source, 1993, 1997, and 2002
(Megawatts)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Iowa							
Coal	5,818	5,573	5,620	-0.4	68.6	64.9	60.2
Petroleum	508	660	846	5.8	6.0	7.7	9.1
Natural Gas	162	152	104	-4.8	1.9	1.8	1.1
Dual Fired	946	974	1,036	1.0	11.1	11.3	11.1
Nuclear	515	535	566	1.0	6.1	6.2	6.1
Hydroelectric	125	136	129	.4	1.5	1.6	1.4
Other Renewables	*	*	107	122.4	.0	.0	1.1
Other	0	209	0	NM	.0	2.4	.0
Total Electric Utilities	8,074	8,238	8,407	.5	95.1	95.9	90.0
Coal	259	268	419	5.5	3.1	3.1	4.5
Petroleum	80	69	82	.4	.9	.8	.9
Natural Gas	*	*	4	27.7	.0	.0	.0
Dual Fired	64	3	0	NM	.8	.0	.0
Hydroelectric	5	5	2	-9.5	.1	.1	.0
Other Renewables	5	8	422	64.1	.1	.1	4.5
Total IPP's & Combined Heat and Power	413	353	931	9.4	4.9	4.1	10.0
Coal	6,077	5,840	6,039	-.1	71.6	68.0	64.7
Petroleum	587	729	929	5.2	6.9	8.5	9.9
Natural Gas	163	152	108	-4.4	1.9	1.8	1.2
Dual Fired	1,010	977	1,036	.3	11.9	11.4	11.1
Nuclear	515	535	566	1.0	6.1	6.2	6.1
Hydroelectric	130	141	131	.1	1.5	1.6	1.4
Other Renewables	5	8	529	68.0	.1	.1	5.7
Other	0	209	0	NM	.0	2.4	.0
Total Electric Industry	8,487	8,591	9,338	1.1	100.0	100.0	100.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation of Electricity by Primary Energy Source, 1993, 1997, and 2002
(Megawatthours)

Energy Source	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Iowa							
Coal	26,642,524	28,739,404	34,033,119	2.8	83.1	81.1	80.0
Petroleum	49,511	81,984	55,552	1.3	.2	.2	.1
Natural Gas	308,065	276,627	406,796	3.1	1.0	.8	1.0
Nuclear	3,235,009	4,149,111	4,573,958	3.9	10.1	11.7	10.8
Hydroelectric	737,023	794,739	936,689	2.7	2.3	2.2	2.2
Other Renewables	19,558	22,478	45,552	9.8	.1	.1	.1
Total Electric Utilities	30,991,690	34,064,343	40,051,665	2.9	96.7	96.2	94.2
Coal	889,120	1,093,821	1,338,939	4.7	2.8	3.1	3.1
Petroleum	7,415	8,208	8,312	1.3	.0	.0	.0
Natural Gas	140,924	161,064	147,924	.5	.4	.5	.3
Hydroelectric	10,159	10,205	9,695	-.5	.0	.0	.0
Other Renewables	9,705	81,298	971,850	66.8	.0	.2	2.3
Total IPP's & Combined Heat and Power	1,057,323	1,354,596	2,476,720	9.9	3.3	3.8	5.8
Coal	27,531,644	29,833,225	35,372,058	2.8	85.9	84.2	83.2
Petroleum	56,926	90,192	63,864	1.3	.2	.3	.2
Natural Gas	448,989	437,691	554,719	2.4	1.4	1.2	1.3
Nuclear	3,235,009	4,149,111	4,573,958	3.9	10.1	11.7	10.8
Hydroelectric	747,182	804,944	946,384	2.7	2.3	2.3	2.2
Other Renewables	29,263	103,776	1,017,402	48.3	.1	.3	2.4
Total Electric Industry	32,049,013	35,418,939	42,528,385	3.2	100.0	100.0	100.0

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1993, 1997, and 2002

Fuel	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Iowa				
Coal (2002 cents per million Btu)	112.8	96.3	88.8	-2.6
Average heat value (Btu per pound)	8,660	8,662	8,860	.3
Average sulfur Content(percent)5	.4	.4	-3.1
Petroleum (2002 cents per million Btu)	141.3	144.9	579.0	17.0
Average heat value (Btu per gallon)	83,080	83,517	137,281	5.7
Average sulfur Content(percent)	5.1	5.6	*	-49.9
Gas (2002 cents per million Btu)	345.8	349.2	386.6	1.2
Average heat value (Btu per cubic foot)	1,006	1,003	1,015	.1

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1993, 1997, and 2002
(Thousand Short Tons)

Emission Type	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)
Iowa				
Sulfur Dioxide				
Coal	184	159	148	-2.4
Petroleum	6	9	*	-42.0
Gas.....	0	0	0	NM
Other.....	*	1	0	NM
Total	190	169	148	-2.7
Nitrogen Oxide				
Coal	144	79	85	-5.7
Petroleum	1	1	*	-33.5
Gas.....	1	1	1	.2
Other.....	*	1	*	3.0
Total	146	82	86	-5.7
Carbon Dioxide				
Coal	31,721	34,784	41,458	3.0
Petroleum	63	107	69	1.1
Gas.....	397	444	542	3.5
Other.....	*	0	0	NM
Total	32,181	35,335	42,069	3.0

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Revenue per Kilowatthour by Sector, 1993, 1997, and 2001

Sector	1993	1997	2002	Annual Growth Rate 1993-2002 (Percent)	Percentage Share 1993	Percentage Share 1997	Percentage Share 2002
Iowa							
Retail Sales (thousand megawatthours)							
Residential.....	11,103	11,673	12,921	1.7	34.6	32.3	31.6
Commercial.....	7,269	7,594	8,803	2.1	22.6	21.0	21.5
Industrial	12,465	15,531	16,548	3.2	38.8	43.0	40.5
Other	1,267	1,350	2,626	8.4	3.9	3.7	6.4
Total	32,104	36,148	40,898	2.7	100.0	100.0	100.0
Retail Sales Revenue (million 2002 dollars)							
Residential.....	992	985	1,079	.9	46.5	44.4	43.9
Commercial.....	515	516	578	1.3	24.1	23.3	23.5
Industrial	545	631	672	2.4	25.5	28.5	27.3
Other	83	84	129	5.1	3.9	3.8	5.3
Total	2,134	2,216	2,458	1.6	100.0	100.0	100.0
Average Revenue per Kilowatthour (2002 cents/kWh)							
Residential.....	8.93	8.43	8.35	-.7	NA	NA	NA
Commercial.....	7.09	6.80	6.56	-.8	NA	NA	NA
Industrial	4.37	4.06	4.06	-.8	NA	NA	NA
Other	6.52	6.26	4.92	-3.1	NA	NA	NA
Total	6.65	6.13	6.01	-1.1	NA	NA	NA

See footnotes at end of tables.

Table 9. Utility Retail Sales Statistics, 2002

Item	Investor-Owned	Public	Federal	Cooperative	Energy Service Providers	Total
Iowa						
Number of Entities	3	138	0	43	0	184
Number of Retail Customers	1,058,715	200,267	0	200,997	0	1,459,979
Retail Sales (thousand megawatthours).....	30,852	4,978	0	5,067	0	40,898
Percentage of Retail Sales.....	75.44	12.17	.00	12.39	.00	100.00
Revenue from Retail Sales (million 2002 dollars)	1,828	282	0	348	0	2,458
Percentage of Revenue.....	74.35	11.47	.00	14.18	.00	100.00
Revenue per Kilowatthour (2002 cents/kWh).....	5.92	5.67	.00	6.88	0	6.01

IPP = Independent Power Producer.

NA = Not available.

NM = Not meaningful.

* = 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 "**".)