

Table 1. 2004 Summary Statistics

Item	Value	U.S. Rank
Kansas		
NERC Region(s).....		SPP/MAPP
Primary Energy Source		Coal
Net Summer Capability (megawatts).....	10,850	33
Electric Utilities	10,705	21
Independent Power Producers & Combined Heat and Power	146	47
Net Generation (megawatthours)	46,782,659	31
Electric Utilities	46,409,328	22
Independent Power Producers & Combined Heat and Power	373,331	48
Emissions (thousand metric tons)		
Sulfur Dioxide	112	23
Nitrogen Oxide.....	84	19
Carbon Dioxide.....	37,288	27
Sulfur Dioxide (lbs/MWh).....	5.3	19
Nitrogen Oxide (lbs/MWh).....	4.0	8
Carbon Dioxide (lbs/MWh).....	1,757	15
Total Retail Sales (megawatthours)	37,126,540	32
Full Service Provider Sales (megawatthours).....	37,126,540	32
Direct Use (megawatthours).....	62,166	49
Average Retail Price (cents/kWh).....	6.37	35

See footnotes at end of tables.

Table 2. Ten Largest Plants by Generating Capability, 2004

Plant	Energy Sources	Operating Company	Net Summer Capability (MW)
Kansas			
1. Jeffrey Energy Center	Other,Petroleum,Coal	Westar Energy	2,214
2. La Cygne	Petroleum,Coal	Kansas City Power & Light Co	1,362
3. Wolf Creek Generating Station	Nuclear	Wolf Creek Nuclear Optg Corp	1,166
4. Gordon Evans Energy Center.....	Gas,Petroleum	Kansas Gas & Electric Co	834
5. Lawrence Energy Center.....	Gas,Coal	Westar Energy	567
6. Hutchinson Energy Center.....	Gas,Petroleum	Westar Energy	476
7. Holcomb	Gas,Coal	Sunflower Electric Power Corp	360
8. Murray Gill.....	Gas,Petroleum	Kansas Gas & Electric Co	317
9. West Gardner.....	Gas	Kansas City Power & Light Co	308
10. Quindaro	Petroleum,Gas,Coal	Kansas City City of	305

See footnotes at end of tables.

**Table 3. Top Five Providers of Retail Electricity, 2004
(Megawatthours)**

Entity	Ownership Type	All Sectors	Residential	Commercial	Industrial	Transportation
Kansas						
1. Westar Energy	Investor-Owned	9,225,171	3,108,752	4,156,746	1,959,673	0
2. Kansas Gas & Electric Co	Investor-Owned	9,138,913	2,815,831	2,812,260	3,510,822	0
3. Kansas City Power & Light Co.....	Investor-Owned	5,864,441	2,548,494	2,906,898	409,049	0
4. Kansas City City of.....	Public	2,338,141	513,453	822,273	1,002,415	0
5. Aquila Inc	Investor-Owned	1,811,047	460,406	583,163	767,478	0
Total Sales, Top Five Providers.....		28,377,713	9,446,936	11,281,340	7,649,437	0
Percent of Total State Sales		76	76	82	70	0

See footnotes at end of tables.

Table 4. Electric Power Industry Net Summer Capability by Primary Energy Source, 1990, 1995, and 2000 Through 2004
(Megawatts)

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Kansas									
Electric Utilities	9,578	9,675	10,086	10,223	10,244	10,730	10,705	99.6	98.7
Coal.....	5,064	5,244	5,295	5,295	5,310	5,265	5,222	52.6	48.1
Petroleum.....	198	211	245	244	265	277	381	2.1	3.5
Natural Gas.....	579	415	505	754	590	990	991	6.0	9.1
Dual Fired.....	2,600	2,638	2,871	2,760	2,910	3,032	2,943	27.0	27.1
Nuclear.....	1,135	1,167	1,170	1,170	1,170	1,165	1,166	11.8	10.7
Hydroelectric	2	0	0	0	0	0	0	*	.0
Other Renewables.....	0	0	0	0	0	2	1	.0	*
Independent Power Producers and Combined									
Heat and Power	43	49	49	153	152	146	146	.4	1.3
Petroleum.....	4	4	1	4	4	0	0	*	.0
Natural Gas.....	4	1	42	29	29	27	27	*	.2
Dual Fired.....	35	42	2	5	4	4	4	.4	*
Hydroelectric	0	2	3	2	2	3	3	.0	*
Other Renewables.....	0	0	0	112	112	112	112	.0	1.0
Total Electric Industry	9,621	9,725	10,134	10,376	10,396	10,876	10,850	100.0	100.0
Coal.....	5,064	5,244	5,295	5,295	5,310	5,265	5,222	52.6	48.1
Petroleum.....	203	215	246	249	269	277	381	2.1	3.5
Natural Gas.....	583	417	547	783	619	1,017	1,018	6.1	9.4
Dual Fired.....	2,634	2,680	2,873	2,765	2,914	3,036	2,947	27.4	27.2
Nuclear.....	1,135	1,167	1,170	1,170	1,170	1,165	1,166	11.8	10.7
Hydroelectric	3	2	3	2	2	3	3	*	*
Other Renewables.....	0	0	0	112	112	114	113	.0	1.0

See footnotes at end of tables.

Table 5. Electric Power Industry Generation by Primary Energy Source, 1990, 1995, and 2000 Through 2004
(Megawatthours)

Energy Source	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Kansas									
Electric Utilities	33,868,644	38,230,483	44,764,909	44,642,712	46,691,936	46,155,505	46,409,328	99.1	99.2
Coal.....	23,720,258	25,896,959	32,507,051	31,768,001	35,369,189	35,109,616	34,593,346	69.4	73.9
Petroleum.....	65,744	73,764	420,746	616,418	508,857	963,751	853,742	.2	1.8
Natural Gas.....	2,196,341	2,197,557	2,776,278	1,911,642	1,772,188	1,190,819	826,668	6.4	1.8
Nuclear.....	7,874,487	10,062,177	9,060,834	10,346,651	9,041,702	8,889,667	10,132,736	23.0	21.7
Hydroelectric	11,769	0	0	0	0	0	0	*	.0
Other Renewables	45	26	0	0	0	1,651	2,835	.0	*
Independent Power Producers and Combined									
Heat and Power	316,213	190,222	50,996	105,811	496,510	412,056	373,331	.9	.8
Petroleum.....	8,282	2,100	626	759	221	381	0	*	.0
Natural Gas.....	306,466	176,908	35,038	39,658	16,864	34,951	4,987	.9	*
Hydroelectric	1,465	11,214	15,332	25,562	12,746	12,435	12,547	*	*
Other Renewables	0	0	0	39,832	466,679	364,288	355,797	.0	.8
Total Electric Industry	34,184,857	38,420,705	44,815,905	44,748,523	47,188,446	46,567,560	46,782,659	100.0	100.0
Coal.....	23,720,258	25,896,959	32,507,051	31,768,001	35,369,189	35,109,616	34,593,346	69.4	73.9
Petroleum.....	74,026	75,864	421,372	617,177	509,078	964,132	853,742	.2	1.8
Natural Gas.....	2,502,807	2,374,465	2,811,316	1,951,300	1,789,052	1,225,770	831,655	7.3	1.8
Nuclear.....	7,874,487	10,062,177	9,060,834	10,346,651	9,041,702	8,889,667	10,132,736	23.0	21.7
Hydroelectric	13,234	11,214	15,332	25,562	12,746	12,435	12,547	*	*
Other Renewables	45	26	0	39,832	466,679	365,939	358,632	.0	.8

See footnotes at end of tables.

Table 6. Electric Power Delivered Fuel Prices for Coal, Petroleum, and Natural Gas, 1990, 1995, and 2000 Through 2004

Fuel, Quality	1990	1995	2000	2001	2002	2003	2004
Kansas							
Coal (cents per million Btu)	124.2	102.1	98.5	104.8	98.3	101.5	102.8
Average heat value (Btu per pound).....	8,948	8,730	8,672	8,704	8,548	8,619	8,626
Average sulfur Content (percent).....	.6	.4	.4	.4	.4	.5	.4
Petroleum (cents per million Btu).....	540.4	212.2	400.0	336.1	272.7	361.7	406.8
Average heat value (Btu per gallon).....	138,177	104,067	154,872	154,357	152,240	156,948	156,855
Average sulfur Content (percent).....	.1	2.8	1.5	1.6	1.6	1.6	1.7
Natural Gas (cents per million Btu)	175.8	161.0	414.2	357.8	309.4	529.6	545.9
Average heat value (Btu per cubic foot)	990	980	1,010	1,012	1,000	1,014	1,008

See footnotes at end of tables.

Table 7. Electric Power Industry Emissions Estimates, 1990, 1995, and 2000 Through 2004
(Thousand Metric Tons)

Emission Type	1990	1995	2000	2001	2002	2003	2004
Kansas							
Sulfur Dioxide							
Coal	77	64	103	103	113	119	104
Petroleum.....	1	*	3	6	5	9	8
Natural Gas	*	*	*	*	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	79	64	106	109	118	128	112
Nitrogen Oxide							
Coal	120	134	77	72	83	82	81
Petroleum.....	*	*	1	1	1	3	2
Gas	4	4	6	4	3	2	1
Other.....	0	0	0	0	0	0	0
Total.....	125	138	83	77	87	86	84
Carbon Dioxide							
Coal	25,136	27,326	34,495	33,654	36,950	36,784	35,876
Petroleum.....	337	69	388	576	457	843	816
Gas	1,772	1,709	1,890	1,364	1,148	836	596
Geothermal	0	0	0	0	0	0	0
Other.....	0	0	0	0	0	0	0
Total.....	27,245	29,104	36,773	35,594	38,554	38,463	37,288

See footnotes at end of tables.

Table 8. Retail Sales, Revenue, and Average Retail Price by Sector, 1990, 1995, and 2000 Through 2004

Sector	1990	1995	2000	2001	2002	2003	2004	Percentage Share	
								1990	2004
Kansas									
Retail Sales (thousand megawatthours)									
Residential.....	9,515	10,356	12,528	12,062	12,745	12,602	12,417	35.0	33.4
Commercial.....	9,169	10,273	12,511	12,787	13,392	13,751	13,831	33.8	37.3
Industrial.....	8,087	9,356	10,222	10,569	10,195	10,382	10,879	29.8	29.3
Other.....	378	372	660	429	381	NA	NA	1.4	NA
Total.....	27,149	30,357	35,921	35,847	36,714	36,735	37,127	100.0	100.0
Retail Revenue (million dollars)									
Residential.....	745	820	959	925	977	971	962	41.7	40.7
Commercial.....	609	687	782	793	841	882	893	34.1	37.8
Industrial.....	400	451	465	481	462	479	510	22.4	21.6
Other.....	31	34	48	38	35	NA	NA	1.7	NA
Total.....	1,785	1,992	2,254	2,236	2,315	2,333	2,364	100.0	100.0
Average Retail Price (cents/kWh)									
Residential.....	7.83	7.92	7.65	7.66	7.67	7.70	7.74	NA	NA
Commercial.....	6.64	6.68	6.25	6.20	6.28	6.42	6.45	NA	NA
Industrial.....	4.94	4.82	4.55	4.55	4.53	4.61	4.69	NA	NA
Other.....	8.17	9.21	7.29	8.91	9.30	NA	NA	NA	NA
Total.....	6.57	6.56	6.27	6.24	6.31	6.35	6.37	NA	NA

See footnotes at end of tables.

Table 9. Retail Electricity Sales Statistics, 2004

Item	Full Service Providers					Other Providers		Total
	Investor-Owned	Public	Federal	Cooperative	Facility	Energy	Delivery	
Kansas								
Number of Entities.....	6	119	1	29	1	NA	NA	156
Number of Retail Customers.....	955,883	235,020	3	213,686	3	NA	NA	1,404,595
Retail Sales (thousand megawatthours).....	26,300	6,611	*	4,111	104	NA	NA	37,127
Percentage of Retail Sales.....	70.84	17.81	*	11.07	.28	NA	NA	100.00
Revenue from Retail Sales (million dollars).....	1,581	425	*	353	5	NA	NA	2,364
Percentage of Revenue.....	66.88	17.96	*	14.93	.23	NA	NA	100.00
Average Retail Price (cents/kWh).....	6.01	6.42	1.69	8.59	5.23	NA	NA	6.37

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.