

**Table 1. 2006 Summary Statistics**

Item	Value	U.S. Rank
<b>Kansas</b>		
NERC Region(s).....		SPP
Primary Energy Source.....		Coal
Net Summer Capacity (megawatts) .....	11,124	33
Electric Utilities.....	10,829	22
Independent Power Producers & Combined Heat and Power.....	295	47
Net Generation (megawatthours).....	45,523,736	32
Electric Utilities.....	44,621,389	21
Independent Power Producers & Combined Heat and Power.....	902,347	45
Emissions (thousand metric tons) .....		
Sulfur Dioxide .....	101	24
Nitrogen Oxide .....	74	22
Carbon Dioxide.....	35,639	28
Sulfur Dioxide (lbs/MWh) .....	4.9	19
Nitrogen Oxide (lbs/MWh) .....	3.6	10
Carbon Dioxide (lbs/MWh).....	1,726	14
Total Retail Sales (megawatthours) .....	39,751,302	32
Full Service Provider Sales (megawatthours) .....	39,751,302	31
Direct Use (megawatthours) .....	7,386	49
Average Retail Price (cents/kWh).....	6.89	38

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>Kansas</b>			
1. Jeffrey Energy Center.....	Coal	Westar Energy Inc	2,190
2. La Cygne.....	Coal	Kansas City Power & Light Co	1,422
3. Wolf Creek Generating Station .....	Nuclear	Wolf Creek Nuclear Optg Corp	1,166
4. Gordon Evans Energy Center.....	Gas	Kansas Gas & Electric Co	826
5. Lawrence Energy Center .....	Coal	Westar Energy Inc	524
6. Hutchinson Energy Center .....	Gas	Westar Energy Inc	474
7. Holcomb .....	Coal	Sunflower Electric Power Corp	360
8. Murray Gill.....	Gas	Kansas Gas & Electric Co	317
9. West Gardner.....	Gas	Kansas City Power & Light Co	308
10. Nearman Creek.....	Coal	Kansas City City of	305

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>Kansas</b>						
1. Kansas Gas & Electric Co .....	Investor-Owned	9,936,518	3,081,078	2,991,285	3,864,155	-
2. Westar Energy Inc .....	Investor-Owned	9,621,028	3,374,963	4,286,572	1,959,493	-
3. Kansas City Power & Light Co.....	Investor-Owned	6,356,693	2,814,030	3,105,298	437,365	-
4. City of Kansas City.....	Public	2,462,894	562,350	992,215	908,329	-
5. Aquila Inc .....	Investor-Owned	1,899,009	478,131	597,638	823,240	-
Total Sales, Top Five Providers .....		30,276,142	10,310,552	11,973,008	7,992,582	-
Percent of Total State Sales .....		76	76	81	70	-

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>Kansas</b>										
<b>Electric Utilities.....</b>	<b>9,578</b>	<b>9,675</b>	<b>10,223</b>	<b>10,244</b>	<b>10,731</b>	<b>10,705</b>	<b>10,734</b>	<b>10,829</b>	<b>99.6</b>	<b>97.3</b>
Coal.....	5,064	5,244	5,295	5,310	5,265	5,222	5,250	5,203	52.6	46.8
Petroleum.....	622 <sup>R</sup>	579 <sup>R</sup>	652	546	564	587	583	565	6.5	5.1
Natural Gas .....	2,755 <sup>R</sup>	2,685 <sup>R</sup>	3,106	3,219	3,735	3,729	3,734	3,793	28.6	34.1
Nuclear.....	1,135	1,167	1,170	1,170	1,165	1,166	1,166	1,166	11.8	10.5
Hydroelectric .....	2	-	-	-	-	-	-	-	*	-
Other Renewables.....	*	-	-	-	2	1	1	101	*	0.9
<b>Independent Power Producers and Combined Heat and Power .....</b>	<b>43</b>	<b>49</b>	<b>153</b>	<b>152</b>	<b>145</b>	<b>145</b>	<b>295</b>	<b>295</b>	<b>0.4</b>	<b>2.7</b>
Petroleum.....	4	4	4	4	-	-	-	-	*	-
Natural Gas .....	38	43	34	33	31	31	31	31	0.4	0.3
Hydroelectric .....	*	2	2	2	3	3	3	3	*	*
Other Renewables.....	-	-	112	112	112	112	262	262	-	2.4
<b>Total Electric Industry.....</b>	<b>9,621</b>	<b>9,725</b>	<b>10,376</b>	<b>10,396</b>	<b>10,876</b>	<b>10,850</b>	<b>11,029</b>	<b>11,124</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	5,064	5,244	5,295	5,310	5,265	5,222	5,250	5,203	52.6	46.8
Petroleum.....	626 <sup>R</sup>	583 <sup>R</sup>	656	550	564	587	583	565	6.5	5.1
Natural Gas .....	2,793 <sup>R</sup>	2,728 <sup>R</sup>	3,140	3,252	3,766	3,759	3,764	3,824	29.0	34.4
Nuclear.....	1,135	1,167	1,170	1,170	1,165	1,166	1,166	1,166	11.8	10.5
Hydroelectric .....	3	2	2	2	3	3	3	3	*	*
Other Renewables.....	*	-	112	112	114	113	263	363	*	3.3

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>Kansas</b>										
<b>Electric Utilities.....</b>	<b>33,868,644</b>	<b>38,230,483</b>	<b>44,642,712</b>	<b>46,691,936</b>	<b>46,155,505</b>	<b>46,409,328</b>	<b>45,421,033</b>	<b>44,621,389</b>	<b>99.1</b>	<b>98.0</b>
Coal.....	23,720,258	25,896,959	31,768,001	35,369,189	35,109,616	34,593,346	34,480,731	33,281,380	69.4	73.1
Petroleum.....	65,744	73,764	616,418	508,857	963,751	853,742	986,378	51,142	0.2	0.1
Natural Gas.....	2,196,341	2,197,557	1,911,642	1,772,188	1,190,819	826,668	1,132,201	1,832,168	6.4	4.0
Nuclear.....	7,874,487	10,062,177	10,346,651	9,041,702	8,889,667	10,132,736	8,820,945	9,350,269	23.0	20.5
Hydroelectric.....	11,769	-	-	-	-	-	-	-	*	-
Other Renewables.....	45	26	-	-	1,651	2,835	778	106,430	*	0.2
<b>Independent Power Producers and Combined Heat and Power.....</b>	<b>316,213</b>	<b>190,222</b>	<b>105,811</b>	<b>496,510</b>	<b>412,056</b>	<b>373,331</b>	<b>441,663</b>	<b>902,347</b>	<b>0.9</b>	<b>2.0</b>
Petroleum.....	8,282	2,100	759	221	381	-	30	-	*	-
Natural Gas.....	306,466	176,908	39,658	16,864	34,951	4,987	5,251	7,238	0.9	*
Hydroelectric.....	1,465	11,214	25,562	12,746	12,435	12,547	11,337	9,649	*	*
Other Renewables.....	-	-	39,832	466,679	364,288	355,797	425,045	885,460	-	1.9
<b>Total Electric Industry.....</b>	<b>34,184,857</b>	<b>38,420,705</b>	<b>44,748,523</b>	<b>47,188,446</b>	<b>46,567,561</b>	<b>46,782,659</b>	<b>45,862,696</b>	<b>45,523,736</b>	<b>100.0</b>	<b>100.0</b>
Coal.....	23,720,258	25,896,959	31,768,001	35,369,189	35,109,616	34,593,346	34,480,731	33,281,380	69.4	73.1
Petroleum.....	74,026	75,864	617,177	509,078	964,132	853,742	986,408	51,142	0.2	0.1
Natural Gas.....	2,502,807	2,374,465	1,951,300	1,789,052	1,225,770	831,655	1,137,452	1,839,406	7.3	4.0
Nuclear.....	7,874,487	10,062,177	10,346,651	9,041,702	8,889,667	10,132,736	8,820,945	9,350,269	23.0	20.5
Hydroelectric.....	13,234	11,214	25,562	12,746	12,435	12,547	11,337	9,649	*	*
Other Renewables.....	45	26	39,832	466,679	365,939	358,632	425,823	991,890	*	2.2

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>Kansas</b>								
Coal (cents per million Btu)	124	102	105	98	101	103	112	119
Average heat value (Btu per pound)	8,948	8,730	8,700	8,571	8,619	8,626	8,569	8,607
Average sulfur Content (percent)	0.58	0.43	0.43	0.44	0.48	0.44	0.44	0.45
Petroleum (cents per million Btu)	540	212	336	273	362	407	556	485
Average heat value (Btu per gallon)	138,176	104,067	154,286	157,186	156,948	156,855	155,174	144,821
Average sulfur Content (percent)	0.13	2.80	1.60	1.58	1.62	1.66	1.81	2.79
Natural Gas (cents per million Btu)	176	161	358	309	530	546	770	624
Average heat value (Btu per cubic foot)	990	980	1,010	1,004	1,014	1,008	1,010	1,014

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>Kansas</b>								
<b>Sulfur Dioxide</b> .....								
Coal.....	77	64	103	113	119	104	112	98
Petroleum.....	1	*	6	5	9	8	12	3
Natural Gas.....	*	*	*	*	*	*	*	*
Total.....	78	64	109	118	128	112	124	101
<b>Nitrogen Oxide</b> .....								
Coal.....	120	134	72	83	82	81	77	69
Petroleum.....	*	*	2	1	3	2	3	2
Natural Gas.....	4	4	5	5	4	2	3	3
Total.....	125	138	79	89	88	85	82	74
<b>Carbon Dioxide</b> .....								
Coal.....	25,368	27,112	33,406	36,968	36,803	36,313	35,779	34,219
Petroleum.....	75	70	587	457	843	817	939	51
Natural Gas.....	1,662	1,610	1,365	1,149	837	597	925	1,369
Total.....	27,106	28,792	35,358	38,574	38,484	37,726	37,642	35,639

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>Kansas</b>										
<b>Retail Sales (thousand megawatthours)</b> .....										
Residential.....	9,515	10,356	12,062	12,745	12,602	12,417	13,406	13,503	35.0	34.0
Commercial.....	9,169	10,273	12,787	13,392	13,751	13,831	14,453	14,786	33.8	37.2
Industrial.....	8,087	9,356	10,569	10,195	10,382	10,879	11,165	11,462	29.8	28.8
Other.....	378	372	429	381	NA	NA	NA	NA	1.4	NA
All Sectors.....	27,149	30,357	35,847	36,714	36,735	37,127	39,024	39,751	100.0	100.0
<b>Retail Revenue (million dollars)</b> .....										
Residential.....	745	820	925	977	971	962	1,059	1,114	41.7	40.7
Commercial.....	609	687	793	841	882	893	954	1,030	34.1	37.6
Industrial.....	400	451	481	462	479	510	542	596	22.4	21.8
Other.....	31	34	38	35	NA	NA	NA	NA	1.7	NA
All Sectors.....	1,785	1,992	2,236	2,315	2,333	2,364	2,555	2,740	100.0	100.0
<b>Average Retail Prices (cents/KWh)</b> .....										
Residential.....	7.83	7.92	7.66	7.67	7.71	7.74	7.90	8.25	NA	NA
Commercial.....	6.64	6.68	6.20	6.28	6.42	6.45	6.60	6.96	NA	NA
Industrial.....	4.94	4.82	4.55	4.53	4.61	4.69	4.85	5.20	NA	NA
Other.....	8.17	9.21	8.91	9.30	NA	NA	NA	NA	NA	NA
All Sectors.....	6.57	6.56	6.24	6.31	6.35	6.37	6.55	6.89	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	119	1	29	1	NA	NA	156
Number of Retail Customers	979,455	236,579	7	222,919	3	NA	NA	1,438,963
Retail Sales (thousand megawatthours)	28,081	7,038	24	4,504	105	NA	NA	39,751
Percentage of Retail Sales	70.64	17.70	0.06	11.33	0.26	NA	NA	100.00
Revenue from Retail Sales (million dollars)	1,785	534	1	414	7	NA	NA	2,740
Percentage of Revenue	65.14	19.50	0.02	15.10	0.25	NA	NA	100.00
Average Retail Price (cents/kWh)	6.36	7.59	2.59	9.18	6.43	NA	NA	6.89

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>Kansas</b>								
<b>Supply</b>								
<b>Generation</b>								
Electric Utilities	33,869	38,230	44,643	46,692	46,156	46,409	45,421	44,621
Independent Power Producers	1	11	65	479	377	368	436	895
<b>Electric Power Sector Generation Subtotal</b>	<b>33,870</b>	<b>38,242</b>	<b>44,708</b>	<b>47,171</b>	<b>46,532</b>	<b>46,778</b>	<b>45,857</b>	<b>45,516</b>
Combined Heat and Power, Commercial	-	5	2	1	1	1	*	-
Combined Heat and Power, Industrial	315	174	38	16	34	4	5	7
<b>Industrial and Commercial Generation Subtotal</b>	<b>315</b>	<b>179</b>	<b>40</b>	<b>17</b>	<b>35</b>	<b>5</b>	<b>5</b>	<b>7</b>
<b>Total Net Generation</b>	<b>34,185</b>	<b>38,421</b>	<b>44,749</b>	<b>47,188</b>	<b>46,568</b>	<b>46,783</b>	<b>45,863</b>	<b>45,524</b>
<b>Total Supply</b>	<b>34,185</b>	<b>38,421</b>	<b>44,749</b>	<b>47,188</b>	<b>46,568</b>	<b>46,783</b>	<b>45,863</b>	<b>45,524</b>
<b>Disposition</b>								
<b>Retail Sales</b>								
Full Service Providers	27,149	30,357	35,847	36,714	36,735	37,022	38,921	39,646
Facility Direct Retail Sales	-	-	-	-	-	104	103	105
<b>Total Electric Industry Retail Sales</b>	<b>27,149</b>	<b>30,357</b>	<b>35,847</b>	<b>36,714</b>	<b>36,735</b>	<b>37,127</b>	<b>39,024</b>	<b>39,751</b>
<b>Direct Use</b>	<b>315</b>	<b>180</b>	<b>60</b>	<b>61</b>	<b>62</b>	<b>62</b>	<b>5</b>	<b>7</b>
<b>Total International Exports</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>*</b>	<b>*</b>	<b>-</b>
<b>Estimated Losses</b>	<b>2,036</b>	<b>2,305</b>	<b>2,882</b>	<b>3,285</b>	<b>3,085</b>	<b>3,456</b>	<b>4,278</b>	<b>3,459</b>
<b>Total Disposition</b>	<b>29,499</b>	<b>32,841</b>	<b>38,789</b>	<b>40,060</b>	<b>39,883</b>	<b>40,645</b>	<b>43,308</b>	<b>43,218</b>
<b>Net Interstate Trade</b>	<b>4,685</b>	<b>5,579</b>	<b>5,960</b>	<b>7,128</b>	<b>6,685</b>	<b>6,137</b>	<b>2,555</b>	<b>2,306</b>
<b>Net Trade Index (ratio)</b>	<b>1.16</b>	<b>1.17</b>	<b>1.15</b>	<b>1.18</b>	<b>1.17</b>	<b>1.15</b>	<b>1.06</b>	<b>1.05</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.