



**Kansas City Power & Light Company  
Electric Generation and Emissions in 2011**

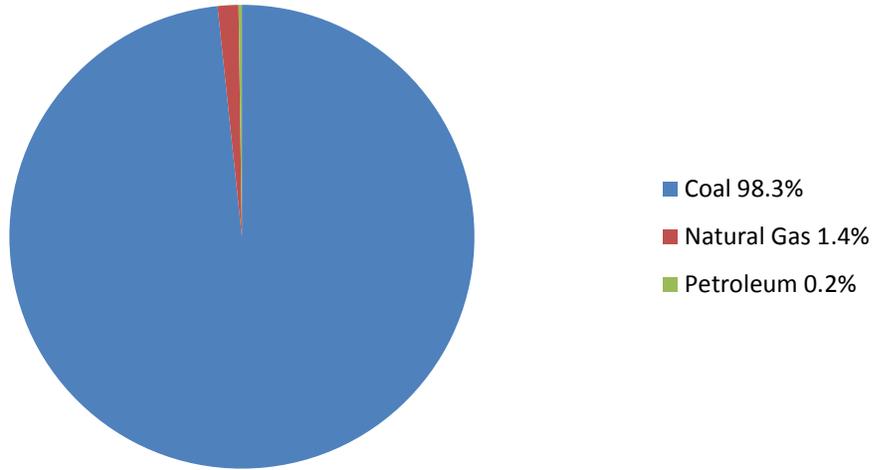
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
<b>Non-renewable sources</b>						
Coal	153,879,810	98.4%	98.4%	15,374,625	98.3%	98.3%
Natural Gas	2,073,225	1.3%	1.3%	225,844	1.4%	1.4%
Petroleum	396,975	0.3%	0.3%	35,756	0.2%	0.2%
Nuclear						
Other						
<b>Non-renewable total</b>	<b>156,350,010</b>	<b>100.0%</b>	<b>100.0%</b>	<b>15,636,225</b>	<b>100.0%</b>	<b>100.0%</b>
<b>Renewable sources</b>						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
<b>Renewable total</b>						
<b>Grand total</b>	<b>156,350,010</b>		<b>100.0%</b>	<b>15,636,225</b>		<b>100.0%</b>

Fuel Type	Physical Units	Number of Units
Sub-bituminous Coal	Short Tons	8,873,936
Natural Gas	MCf	2,073,225
Distillate Fuel Oil	Barrels	69,066



### Net Generation by Fuel Type, 2011 for Kansas City Power & Light Company





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Power Plant Nameplate information for Kansas City Power & Light Company

<b>Plant Name</b>	<b>County Location</b>	<b>Nameplate Capacity (MW)</b>
<i>Kansas City Power &amp; Light Company</i>		<i>15,041.2</i>
Hawthorn	Jackson	4,281.2
Montrose	Henry	2,256.0
Northeast	Jackson	1,944.0
Iatan	Platte	6,560.0



Emissions from Electricity Generated in 2011: Kansas City Power & Light Company

	<b>CO2 Equivalent (TONS)</b>	<b>Carbon Dioxide (CO2) (TONS)</b>	<b>Methane (CH4) (TONS)</b>	<b>Nitrogen Dioxide (NO2) (TONS)</b>
<i>Kansas City Power &amp; Light Company</i>	560,615,890	66,440,280	7,477,816	1,087,553
Hawthorn	141,134,357	16,988,781	1,880,355	273,091
Iatan	314,682,417	37,088,933	4,199,345	610,991
Montrose	104,767,954	12,355,483	1,397,826	203,413
Northeast	31,161	7,083	290	58

	<b>Sulfur Dioxide (SO2) (TONS)</b>	<b>Annual Nitrogen Oxide (NOx) (TONS)</b>	<b>Summer Nitrogen Oxide (NOx) (TONS)</b>
<i>Kansas City Power &amp; Light Company</i>	116,328	0.0015	0.0015
Hawthorn	30,567	0.0010	0.0010
Iatan	63,034	0.0005	0.0005
Montrose	22,727	0.0000	0.0000
Northeast	0	0.0000	0.0000



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Identified Flue Gas Desulfurization (FGD) controls installed on plants operated by Kansas City Power & Light Company

<b>Plant</b>	<b>Control Equipment</b>	<b>Sorbent Type</b>
Hawthorn	Spray dryer type	Lime and alkaline fly ash
Iatan	Spray type	Limestone
Iatan	Spray dryer type	Limestone

Identified Flue Gas Particulate (FGP) controls installed on plants operated by Kansas City Power & Light Company

<b>Plant</b>	<b>Control Equipment</b>
Hawthorn	Baghouse, pulse
Montrose	Electrostatic precipitator, cold side, with flue gas conditioning
Iatan	Baghouse, pulse

**Notes:**

Generation, emissions and pollution control data include power plants owned by the utility and located in Missouri.

Emissions data calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data

Fuel Consumption and Generation Data from United States Energy Information Administration, Form 923, United States Department of Energy  
<http://www.eia.gov/electricity/data/eia923>

Pollution control data (FGD and FGP equipment) from United States Energy Information Administration, Form 860, United States Department of Energy  
<http://www.eia.gov/electricity/data/eia860/index.html>

Emissions factors for fuel-based generation from United States Environmental Protection Agency "Emission Factors for Greenhouse Gas Inventories", November 7, 2011,  
<http://www.epa.gov/climateleadership/documents/emission-factors.pdf>