



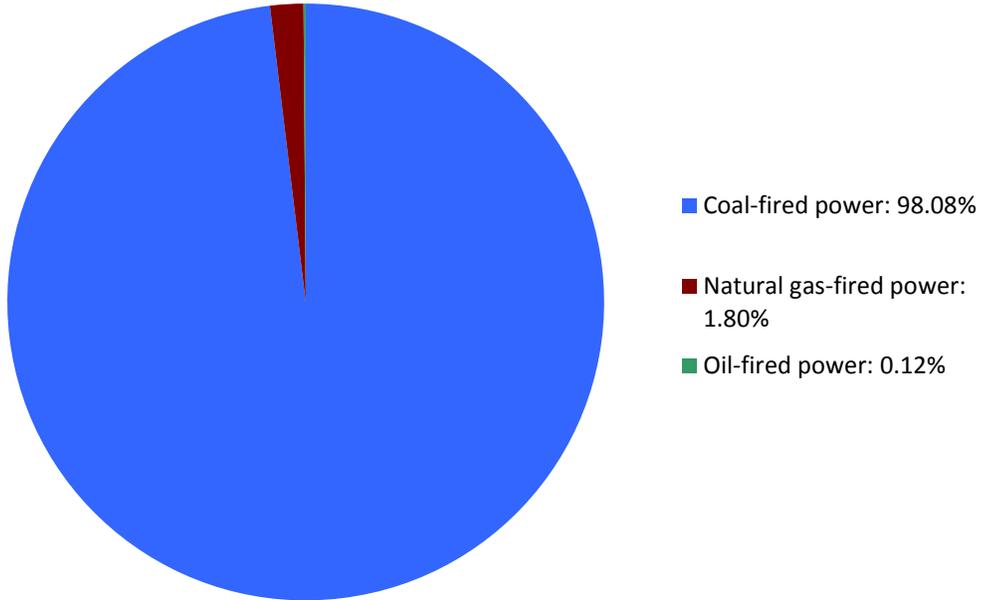
**Kansas City Power & Light Company
Utility-Owned Electric Generation and Emissions in 2009**

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated in 2009 (MWh)	Percent of Total	
Non-renewable sources						
Coal-fired power	115,199,566	98.10%		10,995,996	98.08%	
Natural gas-fired power	1,879,258	1.60%		201,839	1.80%	
Oil-fired power	356,226	0.30%		13,139	0.12%	
Nuclear power						
Other non-renewable power						
Non-renewable total	117,435,050	100.00%	100.00%	11,210,975	100.00%	100.00%
Renewable sources						
Hydroelectric Power						
Wind						
Waste and biomass						
Solar						
Geothermal						
Landfill Gas						
Renewable total	0	0.00%	0.00%	0	0.00%	0.00%
Grand total all sources	117,435,050		100.00%	11,210,975		100.00%

Fuel Type	Physical Units	Number of Units
Sub-Bituminous Coal	Short Tons	6,824,331
Natural Gas	Mcf	1,879,258
Distillate Fuel Oil	Barrels	61,809



Net Generation by Fuel Type, 2009 for Kansas City Power & Light Company





**Emissions from Electricity Generated in 2009: Kansas City Power & Light
Company**

Plant	Carbon Dioxide (CO ₂) (Tons)	Carbon Monoxide (CO) (Tons)	Ammonia (NH ₃) (Tons)	Nitrogen Oxides (NO _x) (Tons)	Sulfur Dioxides (SO ₂) (Tons)
Kansas City Power & Light Company	13,316,782.66	3,749.13	6.15	8,028.44	16,731.53
Hawthorn	4,563,538.12	2,779.61	4.01	1,589.80	2,016.53
Iatan	4,970,986.14	449.83	1.17	151.90	1,923.40
Montrose	3,781,638.44	519.63	0.98	6,269.70	12,791.40
Northeast	619.96	0.06	NV	17.05	0.20

Plant	Volatile Organic Compounds (VOC) (Tons)	Course Particulate Matter (PM ₁₀ Total) (Tons)	Fine Particulate Matter (PM _{2.5} Total) (Tons)	Mercury (Hg) (LBS)
Kansas City Power & Light Company	71.09	955.72	430.16	506.29
Hawthorn	7.64	360.66	94.31	153.44
Iatan	1.29	169.13	97.06	224.02
Montrose	62.16	425.70	238.55	128.83

'NV' = Emissions value not available.

Note: The data provided includes only generation and emissions from power plants owned by the utility. It does not include generation or emissions from power purchased by the utility and distributed to its customers.



Pollution controls installed on plants operated by Kansas City Power & Light Company

SO2 Controls			
Plant	Control Equipment	Sorbent Type	Operational Efficiency
Hawthorn	Spray dryer type	Lime and alkaline fly ash	94.00%
Iatan	No SO2 Controls Installed		
Montrose	No SO2 Controls Installed		
Northeast	No SO2 Controls Installed		

NOX Controls				
Plant	Device Type	Description	Capture Efficiency	Control Efficiency
Hawthorn	CATALYTIC REDUCTION	SELECTIVE CATALYTIC REDUCTION	100.00%	80.00%
Hawthorn	LOW NOX BURNERS	LOW NOX BURNER	100.00%	60.00%
Hawthorn	CATALYTIC REDUCTION	SELECTIVE CATALYTIC BURNER	100.00%	90.00%
Iatan	SCR (SELECTIVE CATALYTIC REDUCTION)	Unit 1 SCR	100.00%	50.00%
Iatan	LOW NOX BURNERS	LOW NOX BURNER DESIGN	100.00%	75.00%
Montrose	No NOX Controls Installed			
Northeast	No NOX Controls Installed			



**Missouri Power plants owned and operated by Kansas City Power & Light
Company in 2009**

Plant	County	Primary Fuel	Capacity (MW)	Net Generation (MWh)
Hawthorn	Jackson	Sub-Bituminous Coal	1,071	4,174,936
Iatan	Platte	Sub-Bituminous Coal	726	3,825,377
Montrose	Henry	Sub-Bituminous Coal	564	3,211,592
Northeast	Jackson	Distillate Fuel Oil	486	-930

Data Sources

- Emissions Data: Missouri Department of Natural Resources, Air Pollution Control Program, Missouri Emissions Inventory System (MOEIS)
<http://www.dnr.mo.gov/env/apcp/moeis/emissionsreporting.htm>

- CO2 Emissions calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data

- Fuel Consumption and Generation Data: United States Energy Information Administration, Form 923, United States Department of Energy
http://www.eia.gov/cneaf/electricity/page/eia906_920.html