



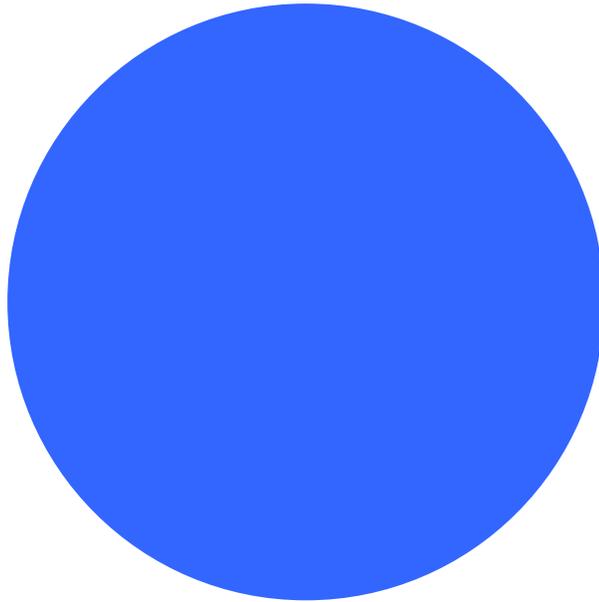
Power Plant: South Harper
Plant Owner: KCP&L Greater Missouri Operations Co
Power generated in 2009 from non-renewable and renewable sources

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated in 2009 (MWh)	Percent of Total	
Non-renewable sources						
Coal-fired power						
Natural gas-fired power	574,192	100.00%		49,236	100.00%	
Oil-fired power						
Nuclear power						
Other non-renewable power						
Non-renewable total	574,192	100.00%	100.00%	49,236	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	574,192		100.00%	49,236		100.00%

Fuel Type	Physical Units	Number of Units
Natural Gas	Mcf	574,192



Net Generation by Fuel Type, 2009 for South Harper



■ Natural gas-fired power:
100.00%



**South Harper
Emissions from Electricity Generated in 2009**

Plant	Carbon Dioxide(CO2) (Tons)	Carbon Monoxide(CO) (Tons)	Ammonia (NH3) (Tons)	Nitrogen Oxides (NOx) (Tons)	Sulfur Dioxides (SO2) (Tons)
South Harper	38,363.44	26.47	NV	17.80	0.19

Plant	Volatile Organic Compounds (VOC) (Tons)	Course Particulate Matter (PM10) (Tons)	Fine Particulate Matter (PM2.5) (Tons)	Mercury (Hg) (LBS)
South Harper	0.68	1.29	1.29	NV

'NV' = Emissions value not available.



Pollution controls installed on South Harper

SO2 Controls				
Plant	Control Equipment	Sorbent Type	Operational Efficiency	
South Harper	No SO2 Controls Installed			

NOX Controls				
Plant	Device Type	Description	Capture Efficiency	Control Efficiency
South Harper	No NOX Controls Installed			

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