



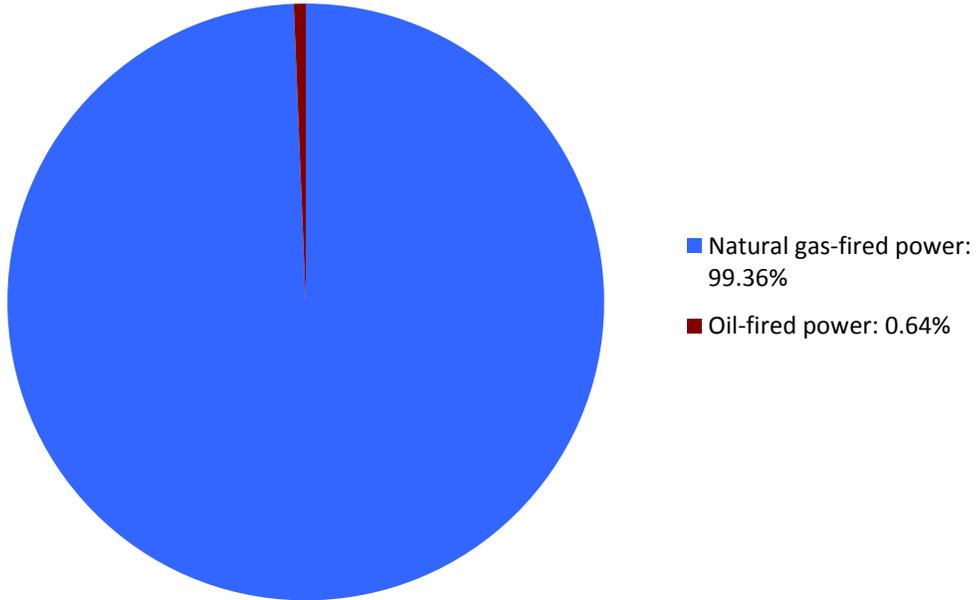
Power Plant: Peno Creek
Plant Owner: Union Electric Company
Power generated in 2009 from non-renewable and renewable sources

	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	670,185	99.34%		70,038	99.36%	
Oil-fired power	4,464	0.66%		454	0.64%	
Nuclear power						
Other non-renewable power						
Non-renewable total	674,649	100.00%	100.00%	70,492	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	674,649		100.00%	70,492		100.00%

Fuel Type	Physical Units	Number of Units
Natural Gas	Mcf	664,328
Distillate Fuel Oil	Barrels	776



Net Generation by Fuel Type, 2009 for Peno Creek





**Peno Creek
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)
Peno Creek	45,086.13	1.89	NV	30.90	0.28

Plant	Volatile Organic Compounds (VOC) (Tons)	Course Particulate Matter (PM10) (Tons)	Fine Particulate Matter (PM2.5) (Tons)	Mercury (Hg) (LBS)
Peno Creek	3.15	3.53	NV	NV

'NV' = Emissions value not available.



Pollution controls installed on Peno Creek

SO2 Controls				
Plant	Control Equipment	Sorbent Type	Operational Efficiency	
Peno Creek	No SO2 Controls Installed			

NOX Controls				
Plant	Device Type	Description	Capture Efficiency	Control Efficiency
Peno Creek	WATER INJECTION	WATER INJECTION	100.00%	80.00%

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