



**Union Electric Company (Ameren Missouri)  
Power Plant Name: Peno Creek  
Electric Generation and Emissions in 2010**

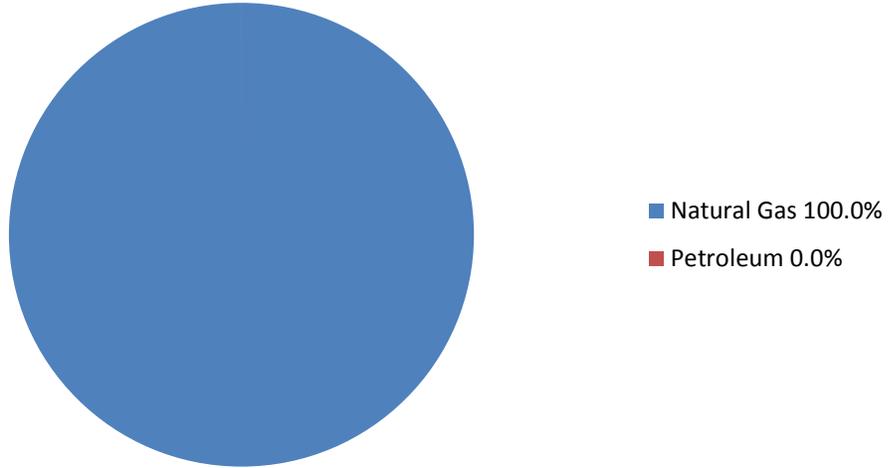
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
<b>Non-renewable sources</b>						
Coal						
Natural Gas	1,208,837	100.0%	100.0%	115,091	100.0%	100.0%
Petroleum	23	0.0%	0.0%	2	0.0%	0.0%
Nuclear						
Other						
<b>Non-renewable total</b>	<b>1,208,860</b>	<b>100.0%</b>	<b>100.0%</b>	<b>115,093</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>1,208,860</b>		<b>100.0%</b>	<b>115,093</b>		<b>100.0%</b>

Fuel Type	Physical Units	Number of Units
Natural Gas	MCf	1,199,368
Distillate Fuel Oil	Barrels	4



## Net Generation by Fuel Type, 2010 for Peno Creek





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Power Plant Nameplate information for Peno Creek

<b>Plant Name</b>	<b>County Location</b>	<b>Generator</b>	<b>Generator Type</b>	<b>Generator Status</b>	<b>Nameplate Capacity (MW)</b>
<i>Peno Creek</i>		<i>All Operating Generators</i>			<i>960.0</i>
Peno Creek	Pike	GT1	Combustion (Gas) Turbine (includes jet engine design)	Operating - in service	240.0
Peno Creek	Pike	GT2	Combustion (Gas) Turbine (includes jet engine design)	Operating - in service	240.0
Peno Creek	Pike	GT3	Combustion (Gas) Turbine (includes jet engine design)	Operating - in service	240.0
Peno Creek	Pike	GT4	Combustion (Gas) Turbine (includes jet engine design)	Operating - in service	240.0



Emissions from Electricity Generated in 2010: Peno Creek

	<b>CO2 Equivalent (TONS)</b>	<b>Carbon Dioxide (CO2) (TONS)</b>	<b>Methane (CH4) (TONS)</b>	<b>Nitrogen Dioxide (NO2) (TONS)</b>
Peno Creek	559,795	282,607	5,330	533

	<b>Sulfur Dioxide (SO2) (TONS)</b>	<b>Annual Nitrogen Oxide (NOx) (TONS)</b>	<b>Summer Nitrogen Oxide (NOx) (TONS)</b>
Peno Creek	0	0.0000	0.0000

Identified Flue Gas Desulfurization (FGD) controls installed on Peno Creek power plant

<b>Plant</b>	<b>Control Equipment</b>	<b>Sorbent Type</b>
	No FGD Controls Installed	

Identified Flue Gas Particulate (FGP) controls installed on Peno Creek power plant

<b>Plant</b>	<b>Control Equipment</b>
	No FGP Controls Installed



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**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>