



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

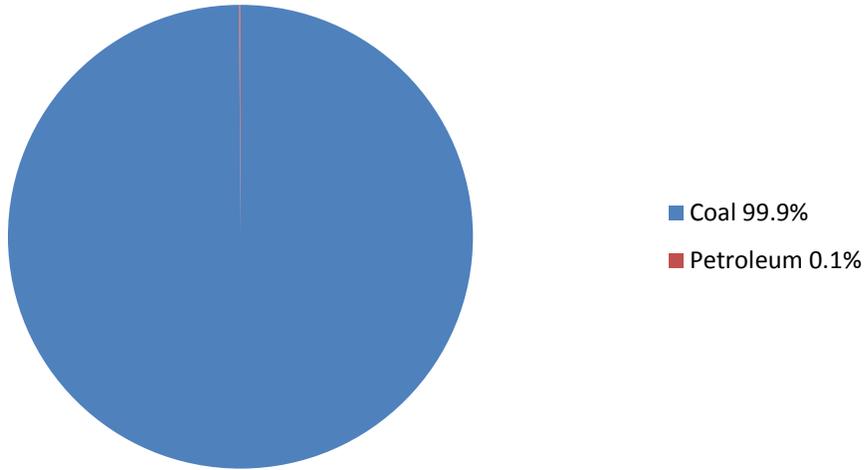
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal	76,803,948	99.9%	99.9%	7,463,959	99.9%	99.9%
Natural Gas						
Petroleum	63,225	0.1%	0.1%	6,135	0.1%	0.1%
Nuclear						
Other						
Non-renewable total	76,867,173	100.0%	100.0%	7,470,094	100.0%	100.0%
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
Renewable total						
Grand total	76,867,173		100.0%	7,470,094		100.0%

Fuel Type	Physical Units	Number of Units
Sub-bituminous Coal	Short Tons	4,600,021
Distillate Fuel Oil	Barrels	10,988



Net Generation by Fuel Type, 2010 for Rush Island





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Power Plant Nameplate information for Rush Island

Plant Name	County Location	Generator	Generator Type	Generator Status	Nameplate Capacity (MW)
<i>Rush Island</i>		<i>All Operating Generators</i>			<i>4,968.0</i>
Rush Island	Jefferson	1	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	2,484.0
Rush Island	Jefferson	2	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	2,484.0



Emissions from Electricity Generated in 2010: Rush Island

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
Rush Island	279,141,769	32,875,956	3,725,954	542,003

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
Rush Island	55,059	0.0007	0.0007

Identified Flue Gas Desulfurization (FGD) controls installed on Rush Island power plant

Plant	Control Equipment	Sorbent Type
	No FGD Controls Installed	

Identified Flue Gas Particulate (FGP) controls installed on Rush Island power plant

Plant	Control Equipment
Rush Island	Electrostatic precipitator, cold side, with flue gas conditioning



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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>