



Associated Electric Cooperative, Inc.  
Power Plant Name: New Madrid  
Electric Generation and Emissions in 2011

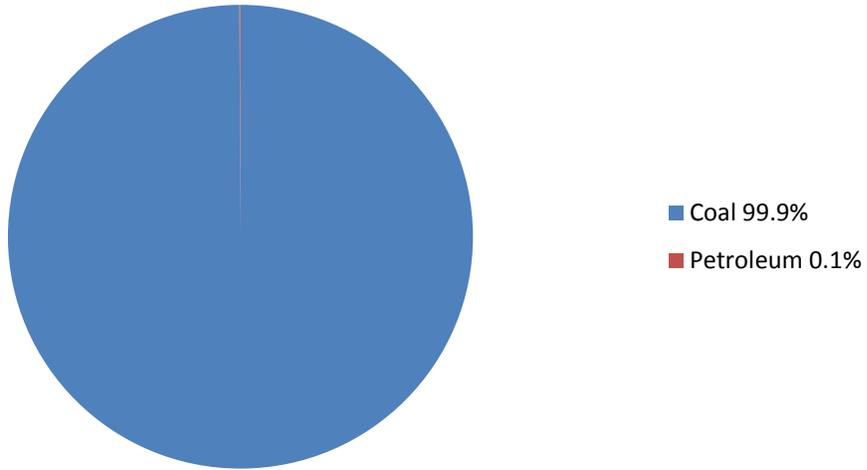
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
<b>Non-renewable sources</b>						
Coal	72,992,450	99.9%	99.9%	7,282,190	99.9%	99.9%
Natural Gas						
Petroleum	48,869	0.1%	0.1%	4,872	0.1%	0.1%
Nuclear						
Other						
<b>Non-renewable total</b>	<b>73,041,319</b>	<b>100.0%</b>	<b>100.0%</b>	<b>7,287,062</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>73,041,319</b>		<b>100.0%</b>	<b>7,287,062</b>		<b>100.0%</b>

Fuel Type	Physical Units	Number of Units
Sub-bituminous Coal	Short Tons	4,229,580
Distillate Fuel Oil	Barrels	8,311



### Net Generation by Fuel Type, 2011 for New Madrid





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Power Plant Nameplate information for New Madrid

<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>New Madrid</i>		<i>All Operating Generators</i>			<i>4,800.0</i>
New Madrid	New Madrid	1	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	2,400.0
New Madrid	New Madrid	2	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	2,400.0



Emissions from Electricity Generated in 2011: New Madrid

	<b>CO2 Equivalent (TONS)</b>	<b>Carbon Dioxide (CO2) (TONS)</b>	<b>Methane (CH4) (TONS)</b>	<b>Nitrogen Dioxide (NO2) (TONS)</b>
New Madrid	265,273,047	31,240,820	3,540,900	515,075

	<b>Sulfur Dioxide (SO2) (TONS)</b>	<b>Annual Nitrogen Oxide (NOx) (TONS)</b>	<b>Summer Nitrogen Oxide (NOx) (TONS)</b>
New Madrid	37,337	0.0019	0.0013

Identified Flue Gas Desulfurization (FGD) controls installed on New Madrid 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 New Madrid power plant

<b>Plant</b>	<b>Control Equipment</b>
New Madrid	Electrostatic precipitator, cold side, without 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>