



Associated Electric Cooperative, Inc.
Power Plant Name: Thomas Hill
Electric Generation and Emissions in 2011

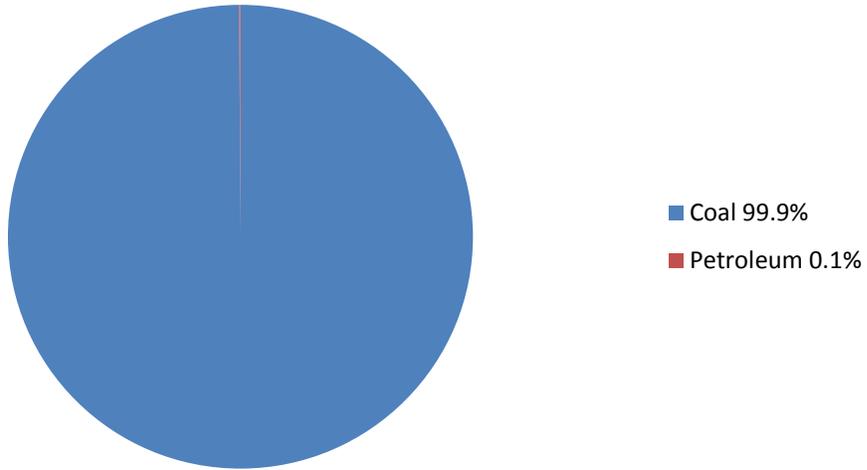
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal	85,386,141	99.9%	99.9%	8,131,466	99.9%	99.9%
Natural Gas						
Petroleum	68,696	0.1%	0.1%	6,533	0.1%	0.1%
Nuclear						
Other						
Non-renewable total	85,454,837	100.0%	100.0%	8,137,999	100.0%	100.0%
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
Renewable total						
Grand total	85,454,837		100.0%	8,137,999		100.0%

Fuel Type	Physical Units	Number of Units
Sub-bituminous Coal	Short Tons	4,918,834
Distillate Fuel Oil	Barrels	11,683



Net Generation by Fuel Type, 2011 for Thomas Hill





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Power Plant Nameplate information for Thomas Hill

Plant Name	County Location	Generator	Generator Type	Generator Status	Nameplate Capacity (MW)
<i>Thomas Hill</i>		<i>All Operating Generators</i>			<i>4,540.0</i>
Thomas Hill	Randolph	1	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	720.0
Thomas Hill	Randolph	2	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	1,140.0
Thomas Hill	Randolph	3	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	2,680.0



Emissions from Electricity Generated in 2011: Thomas Hill

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
Thomas Hill	310,331,241	36,549,052	4,142,277	602,563

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
Thomas Hill	45,301	0.0023	0.0026

Identified Flue Gas Desulfurization (FGD) controls installed on Thomas Hill power plant

Plant	Control Equipment	Sorbent Type
Thomas Hill	Spray type	Not Specified

Identified Flue Gas Particulate (FGP) controls installed on Thomas Hill power plant

Plant	Control Equipment
Thomas Hill	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>