



Associated Electric Cooperative, Inc.
Power Plant Name: Thomas Hill
Electric Generation and Emissions in 2010

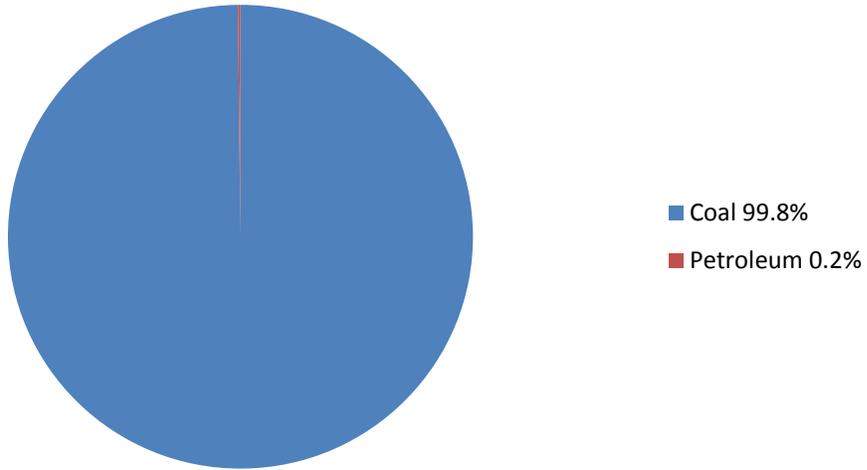
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal	78,256,869	99.8%	99.8%	7,405,297	99.8%	99.8%
Natural Gas						
Petroleum	131,042	0.2%	0.2%	12,344	0.2%	0.2%
Nuclear						
Other						
Non-renewable total	78,387,911	100.0%	100.0%	7,417,641	100.0%	100.0%
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
Renewable total						
Grand total	78,387,911		100.0%	7,417,641		100.0%

Fuel Type	Physical Units	Number of Units
Sub-bituminous Coal	Short Tons	4,513,376
Distillate Fuel Oil	Barrels	22,286



Net Generation by Fuel Type, 2010 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 2010: Thomas Hill

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
Thomas Hill	284,517,029	33,519,396	3,797,320	552,432

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
Thomas Hill	38,459	0.0025	0.0028

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

Plant	Control Equipment	Sorbent Type
	No FGD Controls Installed	

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>