



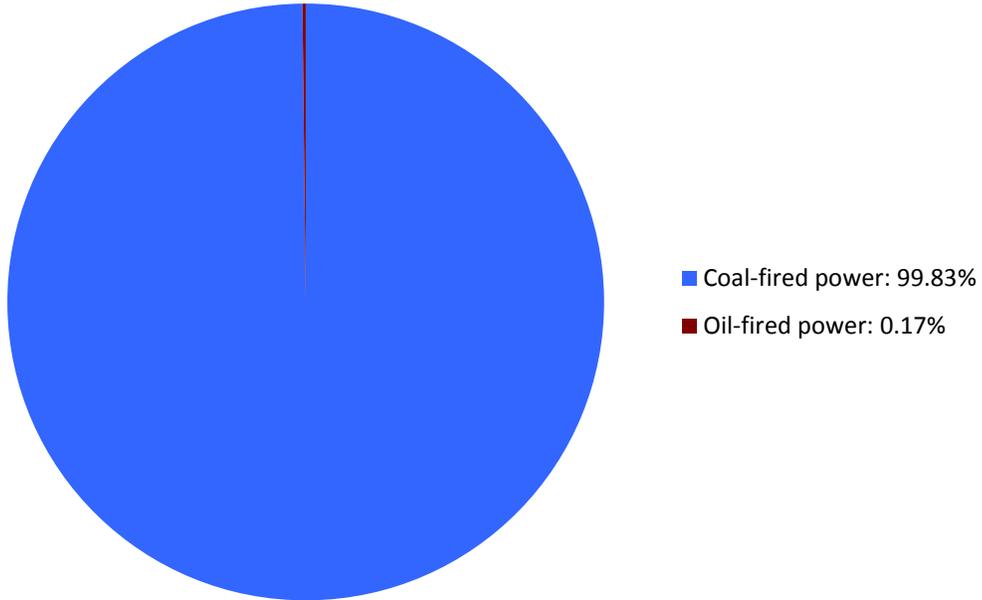
Power Plant: Thomas Hill
Plant Owner: Associated Electric Cooperative, Inc.
Power generated in 2009 from non-renewable and renewable sources

| | Fuel Consumption, MMBTUs | Percent of Total | | Net Electric Power Generated in 2009 (MWh) | Percent of Total | |
|--------------------------------|--------------------------|------------------|----------------|--|------------------|----------------|
| Non-renewable sources | | | | | | |
| Coal-fired power | 75,109,215 | 99.83% | | 7,367,123 | 99.83% | |
| Natural gas-fired power | | | | | | |
| Oil-fired power | 129,394 | 0.17% | | 12,677 | 0.17% | |
| Nuclear power | | | | | | |
| Other non-renewable power | | | | | | |
| Non-renewable total | 75,238,609 | 100.00% | 100.00% | 7,379,800 | 100.00% | 100.00% |
| Renewable sources | | | | | | |
| Hydroelectric Power | | | | | | |
| Wind | | | | | | |
| Waste and biomass | | | | | | |
| Solar | | | | | | |
| Geothermal | | | | | | |
| Landfill Gas | | | | | | |
| Renewable total | 0 | 0.00% | 0.00% | 0 | 0.00% | 0.00% |
| Grand total all sources | 75,238,609 | | 100.00% | 7,379,800 | | 100.00% |

| Fuel Type | Physical Units | Number of Units |
|----------------------------|----------------|-----------------|
| Sub-Bituminous Coal | Short Tons | 4,356,018 |
| Distillate Fuel Oil | Barrels | 22,006 |



Net Generation by Fuel Type, 2009 for Thomas Hill





Thomas Hill
Emissions from Electricity Generated in 2009

| Plant | Carbon Dioxide(CO2) (Tons) | Carbon Monoxide(CO) (Tons) | Ammonia (NH3) (Tons) | Nitrogen Oxides (NOx) (Tons) | Sulfur Dioxides (SO2) (Tons) |
|--------------------|----------------------------------|----------------------------------|-------------------------|---------------------------------|---------------------------------|
| Thomas Hill | 8,185,500.50 | 4,577.83 | 37.92 | 4,086.81 | 16,628.58 |

| Plant | Volatile Organic Compounds (VOC) (Tons) | Course Particulate Matter (PM10) (Tons) | Fine Particulate Matter (PM2.5) (Tons) | Mercury (Hg) (LBS) |
|--------------------|---|--|--|-----------------------|
| Thomas Hill | 179.19 | 486.52 | 455.99 | 309.00 |

'NV' = Emissions value not available.



Pollution controls installed on Thomas Hill

| SO2 Controls | | | |
|---------------------|---------------------------|--------------|------------------------|
| Plant | Control Equipment | Sorbent Type | Operational Efficiency |
| Thomas Hill | No SO2 Controls Installed | | |

| NOX Controls | | | | |
|---------------------|-------------------------------------|--|--------------------|--------------------|
| Plant | Device Type | Description | Capture Efficiency | Control Efficiency |
| Thomas Hill | SCR (SELECTIVE CATALYTIC REDUCTION) | SCR Unit 1 | 90.00% | 90.00% |
| Thomas Hill | SCR (SELECTIVE CATALYTIC REDUCTION) | SCR Unit 2 | 90.00% | 90.00% |
| Thomas Hill | SCR (SELECTIVE CATALYTIC REDUCTION) | SCR 3A & 3B, Unit 3 | 80.00% | 80.00% |
| Thomas Hill | ELECTROSTATIC PRECIPITATOR | ELECTROSTATIC PRECIPITATOR HIGH EFFICIENCY | 100.00% | 98.00% |

Data Sources

- Emissions Data: Missouri Department of Natural Resources, Air Pollution Control Program, Missouri Emissions Inventory System (MOEIS)
<http://www.dnr.mo.gov/env/apcp/moeis/emissionsreporting.htm>
- CO2 Emissions calculated by Missouri Department of Natural Resources, Division of Energy, from EIA Fuel Consumption Data
- Fuel Consumption and Generation Data: United States Energy Information Administration, Form 923, United States Department of Energy
http://www.eia.gov/cneaf/electricity/page/eia906_920.html