



**Empire District Electric Company
Power Plant Name: Asbury
Electric Generation and Emissions in 2010**

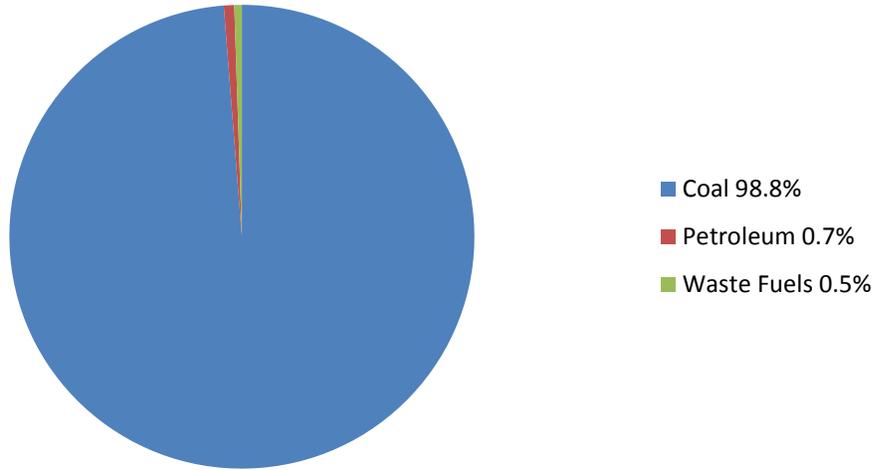
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal	13,612,067	99.3%	98.8%	1,249,992	99.3%	98.8%
Natural Gas						
Petroleum	99,512	0.7%	0.7%	9,141	0.7%	0.7%
Nuclear						
Other						
Non-renewable total	13,711,579	100.0%	99.5%	1,259,133	100.0%	99.5%
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels	71,708	100.0%	0.5%	6,589	100.0%	0.5%
Wind						
Wood						
Renewable total	71,708	100.0%	0.5%	6,589	100.0%	0.5%
Grand total	13,783,287		100.0%	1,265,722		100.0%

Fuel Type	Physical Units	Number of Units
Anthracite Coal and Bituminous Coal	Short Tons	85,914
Sub-bituminous Coal	Short Tons	670,515
Distillate Fuel Oil	Barrels	1,850
Petroleum Coke	Short Tons	3,748
Tire-derived Fuels	Short Tons	2,561



Net Generation by Fuel Type, 2010 for Asbury





Missouri
Department of
Natural Resources

Power Plant Nameplate information for Asbury

Plant Name	County Location	Generator	Generator Type	Generator Status	Nameplate Capacity (MW)
Asbury		<i>All Operating Generators</i>			926.0
Asbury	Jasper	1	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	851.2
Asbury	Jasper	2	Steam Turbine, including nuclear, geothermal and solar steam (does not include combined cycle)	Operating - in service	74.8



Emissions from Electricity Generated in 2010: Asbury

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
Asbury	50,904,006	5,862,404	682,981	99,029

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
Asbury	20,609	0.0014	0.0017

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

Plant	Control Equipment	Sorbent Type
	No FGD Controls Installed	

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

Plant	Control Equipment
Asbury	Electrostatic precipitator, cold side, without flue gas conditioning



Missouri
Department of
Natural Resources

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>