



**Empire District Electric Company  
Power Plant Name: State Line Combined Cycle  
Electric Generation and Emissions in 2011**

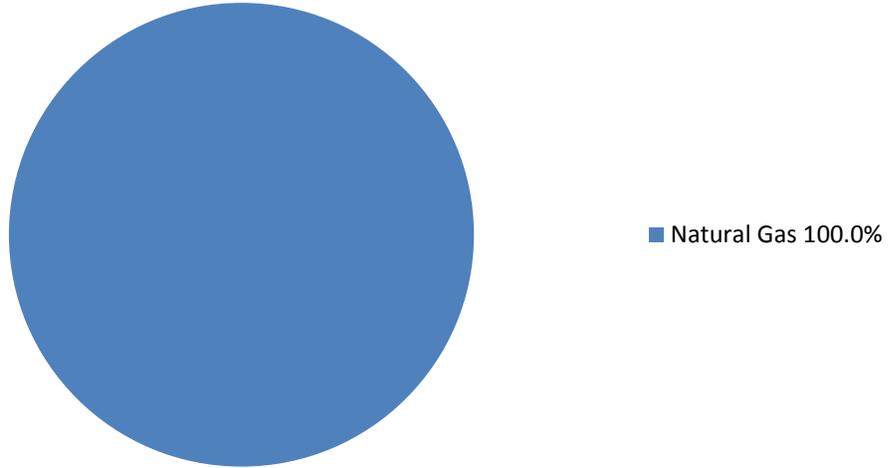
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
<b>Non-renewable sources</b>						
Coal						
Natural Gas	14,198,905	100.0%	100.0%	1,926,937	100.0%	100.0%
Petroleum						
Nuclear						
Other						
<b>Non-renewable total</b>	<b>14,198,905</b>	<b>100.0%</b>	<b>100.0%</b>	<b>1,926,937</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>14,198,905</b>		<b>100.0%</b>	<b>1,926,937</b>		<b>100.0%</b>

Fuel Type	Physical Units	Number of Units
Natural Gas	MCf	13,770,089



## Net Generation by Fuel Type, 2011 for State Line Combined Cycle





Power Plant Nameplate information for State Line Combined Cycle

<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>State Line Combined Cycle</i>		<i>All Operating Generators</i>			2,762.0
State Line Combined Cycle	Jasper	41308	Combined Cycle Steam Part	Operating - in service	826.0
State Line Combined Cycle	Jasper	41306	Combined Cycle Combustion Turbine Part (type of coal or solid must be reported as energy source for integrated coal gasification).	Operating - in service	724.0
State Line Combined Cycle	Jasper	41307	Combined Cycle Combustion Turbine Part (type of coal or solid must be reported as energy source for integrated coal gasification).	Operating - in service	720.0
State Line Combined Cycle	Jasper	1	Combustion (Gas) Turbine (includes jet engine design)	Operating - in service	492.0



Emissions from Electricity Generated in 2011: State Line Combined Cycle

	<b>CO2 Equivalent (TONS)</b>	<b>Carbon Dioxide (CO2) (TONS)</b>	<b>Methane (CH4) (TONS)</b>	<b>Nitrogen Dioxide (NO2) (TONS)</b>
State Line Combined Cycle	6,574,922	3,319,390	62,606	6,261

	<b>Sulfur Dioxide (SO2) (TONS)</b>	<b>Annual Nitrogen Oxide (NOx) (TONS)</b>	<b>Summer Nitrogen Oxide (NOx) (TONS)</b>
State Line Combined Cycle	0	0.0002	0.0002

Identified Flue Gas Desulfurization (FGD) controls installed on State Line Combined Cycle 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 State Line Combined Cycle power plant

<b>Plant</b>	<b>Control Equipment</b>
	No FGP Controls Installed



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>