



**City of Carthage
Power Plant Name: Carthage
Electric Generation and Emissions in 2011**

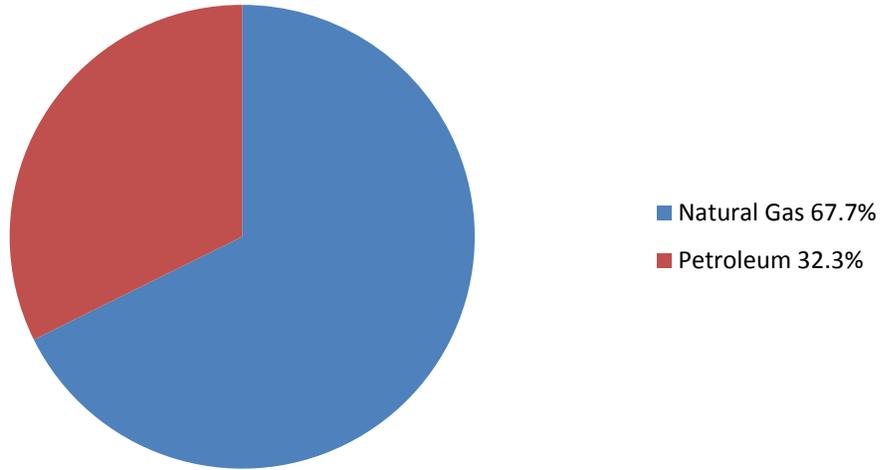
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal						
Natural Gas	25,191	67.7%	67.7%	2,177	67.7%	67.7%
Petroleum	12,029	32.3%	32.3%	1,040	32.3%	32.3%
Nuclear						
Other						
Non-renewable total	37,220	100.0%	100.0%	3,217	100.0%	100.0%
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
Renewable total						
Grand total	37,220		100.0%	3,217		100.0%

Fuel Type	Physical Units	Number of Units
Natural Gas	MCf	31,490
Distillate Fuel Oil	Barrels	2,074



Net Generation by Fuel Type, 2011 for Carthage





Power Plant Nameplate information for Carthage

Plant Name	County Location	Generator	Generator Type	Generator Status	Nameplate Capacity (MW)
<i>Carthage</i>		<i>All Operating Generators</i>			<i>167.2</i>
Carthage	Jasper	10	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	28.0
Carthage	Jasper	11	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	18.0
Carthage	Jasper	12	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	18.0
Carthage	Jasper	13	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	24.0
Carthage	Jasper	14	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	24.0
Carthage	Jasper	6	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	10.0
Carthage	Jasper	7	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	12.0
Carthage	Jasper	8	Internal Combustion Engine (diesel,	Operating - in service	13.2



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			piston, reciprocating)		
Carthage	Jasper	9	Internal Combustion Engine (diesel, piston, reciprocating)	Operating - in service	20.0



Emissions from Electricity Generated in 2011: Carthage

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
Carthage	28,757	9,774	270	43

	Sulfur Dioxide (SO2) (TONS)	Annual Nitrogen Oxide (NOx) (TONS)	Summer Nitrogen Oxide (NOx) (TONS)
Carthage	0	0.0000	0.0000

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

Plant	Control Equipment	Sorbent Type
	No FGD Controls Installed	

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

Plant	Control Equipment
	No FGP Controls Installed



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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>