



Associated Electric Cooperative, Inc.
Power Plant Name: Essex
Electric Generation and Emissions in 2011

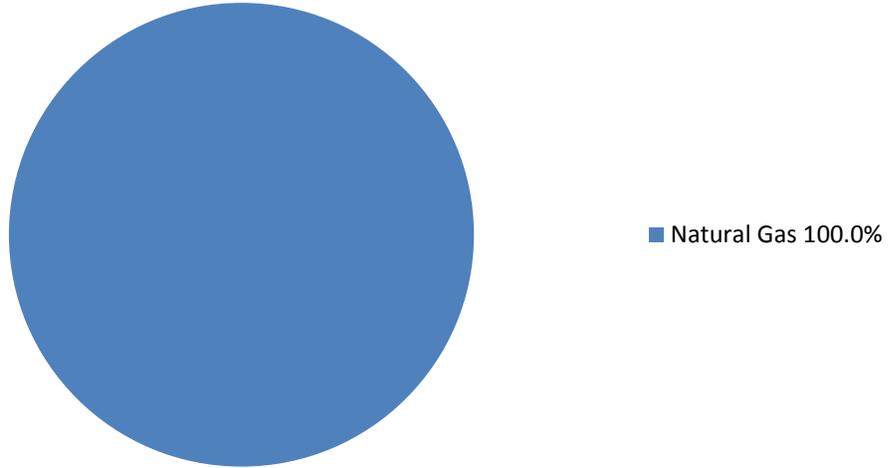
Generation Tables

	Fuel Consumption, MMBTUs	Percent of Total		Net Electric Power Generated, MWh	Percent of Total	
Non-renewable sources						
Coal						
Natural Gas	92,247	100.0%	100.0%	7,729	100.0%	100.0%
Petroleum						
Nuclear						
Other						
Non-renewable total	92,247	100.0%	100.0%	7,729	100.0%	100.0%
Renewable sources						
Biomass						
Hydroelectric						
Landfill Gas						
Solar						
Waste Fuels						
Wind						
Wood						
Renewable total						
Grand total	92,247		100.0%	7,729		100.0%

Fuel Type	Physical Units	Number of Units
Natural Gas	MCf	91,335



Net Generation by Fuel Type, 2011 for Essex





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Power Plant Nameplate information for Essex

Plant Name	County Location	Generator	Generator Type	Generator Status	Nameplate Capacity (MW)
<i>Essex</i>		<i>All Operating Generators</i>			<i>484.8</i>
Essex	Stoddard	1	Combustion (Gas) Turbine (includes jet engine design)	Operating - in service	484.8



Emissions from Electricity Generated in 2011: Essex

	CO2 Equivalent (TONS)	Carbon Dioxide (CO2) (TONS)	Methane (CH4) (TONS)	Nitrogen Dioxide (NO2) (TONS)
Essex	42,716	21,565	407	41

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

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

Plant	Control Equipment	Sorbent Type
	No FGD Controls Installed	

Identified Flue Gas Particulate (FGP) controls installed on Essex 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>