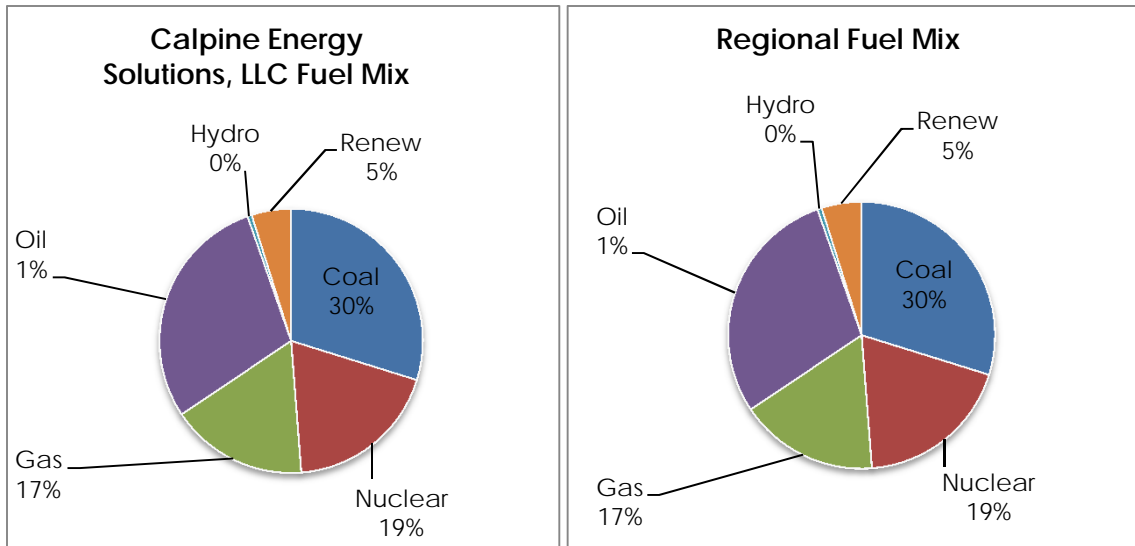




The environmental characteristics of your electricity as required by Public Act 141 of 2000.

Comparison of the Fuel Sources Used to Generate Electricity

Calpine Energy Solutions, LLC vs regional average for 12-month period ending 07/31/19



Fuel Sources	Percentage of fuel types used to produce Calpine Energy Solutions, LLC's electricity	Percentage of fuel type used to produce electricity in Michigan, Illinois, Indiana, Ohio, and Wisconsin
Coal	41.81%	41.81%
Nuclear	26.61%	26.61%
Gas	23.61%	23.61%
Oil	40.70%	40.70%
Hydroelectric	0.76%	0.76%
Total Renewable Fuels	6.80%	6.80%
<i>Biomass</i>	<i>0.47%</i>	<i>0.47%</i>
<i>Biofuel</i>	<i>0.79%</i>	<i>0.79%</i>
<i>Wind</i>	<i>4.95%</i>	<i>4.95%</i>
<i>Wood</i>	<i>0.43%</i>	<i>0.43%</i>
<i>Other</i>	<i>0.15%</i>	<i>0.15%</i>

Note: (1) Biomass above excludes wood; solid waste incineration includes landfill gas, and (2) "-" indicates not applicable or negligible, less than 0.1%.

Airborne Emissions and High-Level Nuclear Waste Comparison

Calpine Energy Solutions, LLC vs regional average for 12-month period ending 12/31/18

Type of emission/waste	Calpine Energy Solutions, LLC average lbs/MWh	A regional average of all generation in Michigan, Illinois, Indiana, Ohio, and Wisconsin
Sulfur Dioxide	1.25 pounds	1.25 pounds
Carbon Dioxide	1248 pounds	1248 pounds
Nitrogen Oxides	0.91 pounds	0.91 pounds
High-level nuclear waste	0.006 pounds	0.006 pounds