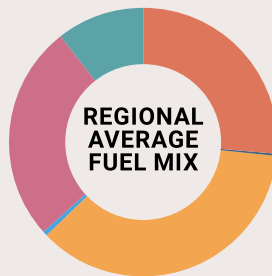
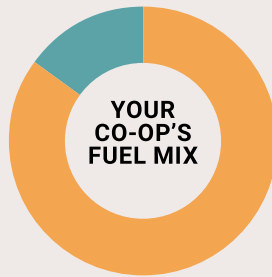


FUEL MIX REPORT

The fuel mix characteristics of Thumb Electric Cooperative as required by Public Act 141 of 2000 for the 12-month period ended 7/31/23.

COMPARISON OF FUEL SOURCES USED

Fuel source	Your co-op's fuel mix	Regional average fuel mix
● Coal	0%	26.446%
● Oil	0%	0.428%
● Gas	85%	35.916%
● Hydroelectric	0%	0.724%
● Nuclear	0%	26.167%
● Renewable Fuels	15%	10.319%
Biofuel	0%	0.760%
Biomass	15%	0.364%
Solar	0%	1.170%
Solid Waste Incineration	0%	0.006%
Wind	0%	7.616%
Wood	0%	0.403%



EMISSIONS AND WASTE COMPARISON

Type of emission/waste	lbs/MWh	
	Your co-op	Regional average*
Sulfur Dioxide	0.25	0.95
Carbon Dioxide	897	1,092
Oxides of Nitrogen	0.23	0.78
High-Level Nuclear Waste	0	0.006

*Regional average information was obtained from the MPSC website and is for the 12-month period ended 7/31/23.

The fuel mix data presented by Thumb Electric is the data from CMS Energy, which supplies nearly all of Thumb Electric's purchased power.