

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 12/31/22.

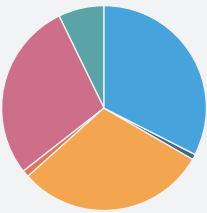
Comparison Of Fuel Sources Used

Fuel source	Your co-op's fuel mix	Regional average fuel mix
Coal	0%	32.237%
Oil	0%	0.385%
Gas	85%	30.632%
Hydroelectric	0%	0.753%
Nuclear	0%	28.581%
Renewable Fuels	15%	7.413%
Biofuel	0%	0.731%
Biomass	15%	0.469%
Solar	0%	0.188%
Solid Waste Incineration	0%	0.013%
Wind	0%	5.562%
Wood	0%	0.450%

Your Co-op's Fuel Mix



Regional Average Fuel Mix



Emissions And Waste Comparison

Type of emission/waste	lbs/MWh	
	Your co-op	Regional average*
Sulfur Dioxide	0.25	1.25
Carbon Dioxide	897	1,248
Oxides of Nitrogen	0.23	0.91
High-Level Nuclear Waste	0	0.006

*Regional average information was obtained from the MPSC website and is for the 12-month period ended 12/31/22.

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