



Upper Michigan Energy
Resources Corporation
231 W. Michigan St.
Milwaukee, WI 53203

November 26, 2024

Mr. Jon DeCooman
Michigan Public Service Commission
7109 West Saginaw Highway
Lansing, MI 48917

RE: Environmental Characteristics of Electricity

Dear Mr. DeCooman:

Pursuant to Section 10r(4) of Act 3 of the Public Acts of 1939, MCL 460.10r(4), attached please find the bill inserts the Upper Michigan Energy Resources Corporation intends to provide to its Michigan customers in January, 2025 regarding the environmental characteristics of the electricity it provides.

If you have any questions, please contact me at 414-221-3685 or Richard.stasik@wecenergygroup.com.

Sincerely,

A handwritten signature in blue ink, appearing to read "Rich F. Stasik", with a stylized flourish at the end.

Richard F. Stasik
Director, State Regulatory Affairs

Attachments

January 2025

Environmental information about your electricity

As of Jan. 1, 2017, Upper Michigan Energy Resources Corp. (UMERC) has served as your electric service provider.

This report provides information about environmental characteristics of the electricity supplied by UMERC. We provide this information to you twice a year as required by the Michigan Public Service Commission (MPSC).

The information contained in this insert compares 2023 UMERC data on average fuel mix, airborne emissions and high-level nuclear waste with a recent regional average provided by the MPSC.

All utilities in Michigan, as well as alternative energy suppliers serving customers under Michigan Customer Choice, provide this information to their customers.

Average fuel mix comparison		Total UMERC electric system 2023 actual (expressed in percent)	Five-state regional average fuel mix Aug. 2023 to July 2024 (expressed in percent)
Fuel source			
Coal		15.23%	24.15%
Nuclear		15.68%	24.87%
Gas		61.38%	38.77%
Oil		0.28%	0.44%
Hydro		0.37%	0.59%
Renewable fuels total		7.06%	11.18%
Biofuel		0.43%	0.67%
Biomass		0.19%	0.31%
Landfill gas		--	--
Solar		1.18%	1.88%
Solid waste incineration		0.09%	0.14%
Wind		4.96%	7.86%
Wood		0.20%	0.33%

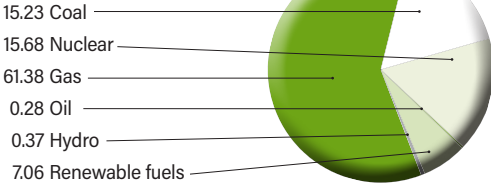
The fuel mix data for the electricity supplied to you by UMERC that appears in this table includes regional average fuel mix data from Michigan, Illinois, Indiana, Ohio and Wisconsin as a proxy for the actual fuel mix. The resources purchased from the Midcontinent Independent System Operator accounted for approximately 63% of the electricity supplied by UMERC during the relevant period.



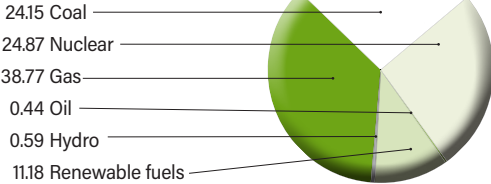
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Total

UMERC system (%)



Five-state regional average (%)



Airborne emissions and high-level nuclear waste comparison

Emission type	Total UMER system average (lbs./MWh) ¹ 2023 actual	Five-state regional average for fossil/ nuclear generation (lbs./MWh) ² Jan. to Dec. 2021
Sulfur dioxide	0.01	0.85
Carbon dioxide	1123.72	1060.15
Oxides of nitrogen	0.19	0.70
High-level nuclear waste ³	0.00	0.01

¹ These rates show the relative amount of air emissions or nuclear waste in pounds per megawatt-hour (MWh) produced as a result of generating electricity from fossil fuel or nuclear units. The emission and nuclear waste characteristics of the electricity you receive vary depending on the mix of fuels used to generate the electricity provided by your supplier. Generation split is based on actual 2023 data.

² Regional average in Michigan, Illinois, Indiana, Ohio and Wisconsin. MPSC update October 2024.

³ UMER has no nuclear generation and, therefore, no emissions associated with high-level nuclear waste.

Questions?

Residential customers: Call 800-242-9137 anytime

Business customers: Call 800-714-7777 weekdays from 8 a.m. to 5 p.m.

UMERC-WE-250008-01-JN-GH-18M



250008

January 2025

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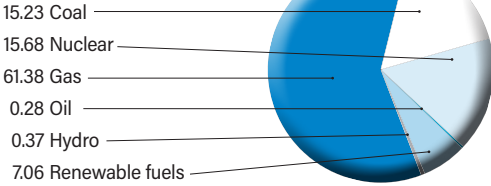
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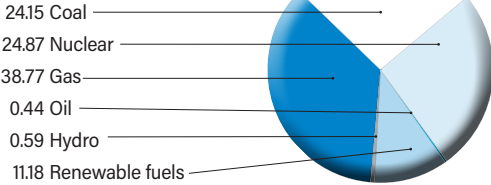
Building a bright, sustainable future

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Questions?

Residential customers: Call 800-450-7260 anytime

Business customers: Call 877-444-0888 weekdays from 8 a.m. to 5 p.m.

UMERC-WPS-250007-01-JN-GH-8M



250007