

**Wisconsin Power and Light Electric Utility Supplier-Specific Customer Data
Renewable Energy, Energy Mix and Greenhouse Gas Emission Rates
Version: June 2021**

The percent of renewable energy and supplier-specific greenhouse gas emission rates provided below apply to Wisconsin retail electric customers of Alliant Energy’s regulated utility subsidiary Wisconsin Power and Light (WPL). The WPL renewable energy percentage values are submitted annually to the Public Service Commission of Wisconsin (PSCW) as part of our annual renewable portfolio standard compliance filing. Customers can use the supplier-specific emission rates to estimate indirect Scope 2 greenhouse gas emissions associated with electricity use provided from WPL.

WPL Renewable Energy and Supplier Emission Rates¹	2016	2017	2018	2019	2020
Renewable Energy Supplied to Customers²					
Percent of Retail Sales	11.4%	13.3%	12.3%	13.5%	20.7%
Supplier Greenhouse Gas Emission Rates (lbs/megawatt-hour)³					
Carbon dioxide (CO ₂)	1,615	1,686	1,580	1,362	1,243
Methane (CH ₄)	0.06	0.05	0.04	0.04	0.03
Nitrous oxide (N ₂ O)	0.02	0.03	0.02	0.02	0.02
Carbon dioxide equivalent (CO ₂ e)	1,624	1,695	1,588	1,368	1,248

WPL 2020 Electric Energy Resource Mix⁴	
Total Retail Energy Delivered (megawatt-hours)	10,741,683
Electricity from Owned Generation	74.79%
Electricity from Purchased Power	25.21%
Energy Resource Mix Information	
Coal	27.99%
Oil	0.00%
Natural Gas	37.62%
Other Fossil	0.00%
Nuclear	0.00%
Hydroelectric	2.75%
Biomass/Biogas	0.30%
Wind	16.70%
Solar	0.07%
Geothermal	0.00%
Other - Market	14.11%
Second Nature & Null Power	0.47%

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- 1) Alliant Energy Corporation (Alliant Energy) makes no assurances regarding the use of this information by external parties for marketing or other sustainability claims, or the validity of this information with respect to the U.S. Federal Trade Commission Green Guides under 16 CFR Part 260. Alliant Energy reserves the right to use all or some of the renewable energy attributes associated with generation from renewable energy sources in future years to comply with renewable energy standards or other regulatory requirements or to sell the renewable energy attributes to third parties in the form of renewable energy credits (RECs) or other environmental commodities. All information is provided on a voluntary basis and could be subject to change.
- 2) The percent values provided represent the [standard delivery for renewable energy use](#) for retail electric utility customers. All RECs supporting the renewable percent of retail sales have been or will be retired. RECs sold, transferred, held, or retired for other purposes are excluded from the percent calculation.
- 3) The supplier-specific greenhouse gas emission rates apply to retail electric utility customers, except for customers of Alliant Energy's Green Pricing Program (Second Nature) and outside parties with renewable energy agreements. Emissions from electric generation facilities are calculated in accordance with the U.S. Environmental Protection Agency (EPA) mandatory Greenhouse Gas Reporting Program regulations under 40 CFR Part 98 and carbon dioxide (CO₂) emissions from fossil-fueled combustion units equipped with continuous monitoring systems are certified under 40 CFR Part 75. The rates provided include the annual share of emissions and generation from jointly-owned electric generation units. Rates have also been adjusted for null power including market energy purchases and external sales of RECs. The EPA's [Emissions and Generation Resource Integrated Database](#) (eGRID) emission factors are used for null power and market energy purchased CO₂, methane (CH₄) and nitrous oxide (N₂O) emissions. Natural gas purchased power emissions are calculated from EPA emissions factors for combined-cycle electric generation units based on U.S. Energy Information Administration (EIA) reported data. Total carbon dioxide-equivalent (CO₂e) emissions are calculated with global warming potentials (GWP) as follows: CO₂ = 1; CH₄ = 25; N₂O = 298. Supplier-specific emission rates are estimated following the [World Resources Institute Scope 2 protocol guidance](#) and have not received independent third party verification.
- 4) Retail sales data provided is based on sales to ultimate consumers from the annual [Federal Energy Regulatory Commission \(FERC\) Form 1](#) report and energy mix is based on sources of energy from the [Form 10-K](#) report to the U.S. Securities and Exchange Commission. FERC Form 1 retail sales data is used to determine the percent of renewable energy and supplier-specific emissions rate. Alliant Energy retains the RECs associated with market energy sales for our regulated utilities to provide the renewable attributes and associated emission reduction benefits for our retail electric customers. Therefore, the percent of renewable energy provided to retail electric customers is higher than the sum total of renewables in our overall energy mix.