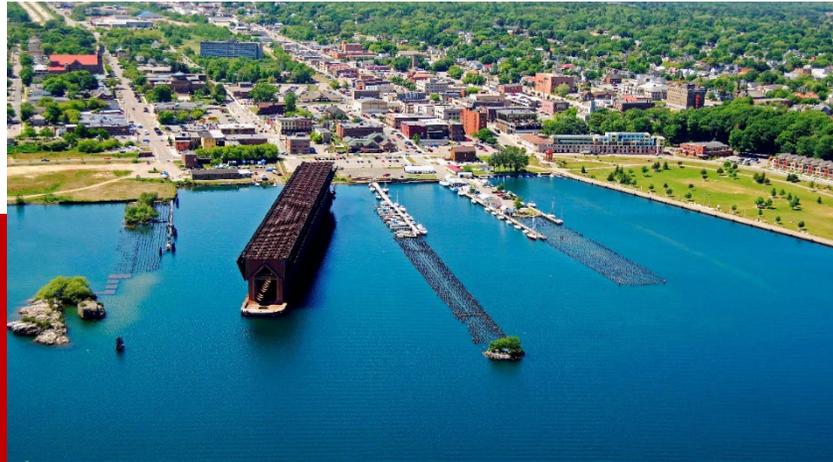


Marquette Board of Light and Power

Proudly serving the Marquette community since 1889



Marquette Board of Light and Power

- Municipal Electric System owned by the City of Marquette
- Publicly elected independent five-member board
- Locally owned, operated, and controlled
- 17,000 Customers
- Service to the City of Marquette and nine surrounding townships
- Largest Municipal Electric System in the State by area – 253 square miles
- 450 Miles of distribution lines



Industry and Community Involvement

- Michigan Public Power Agency
- American Public Power Association
- Upper Peninsula Public Power Agency
- Michigan Municipal Electric Association
- Lake Superior Community Partnership
- Mutual Aid Program
- Superior Watershed Partnership
- Noquemanon Trail Network

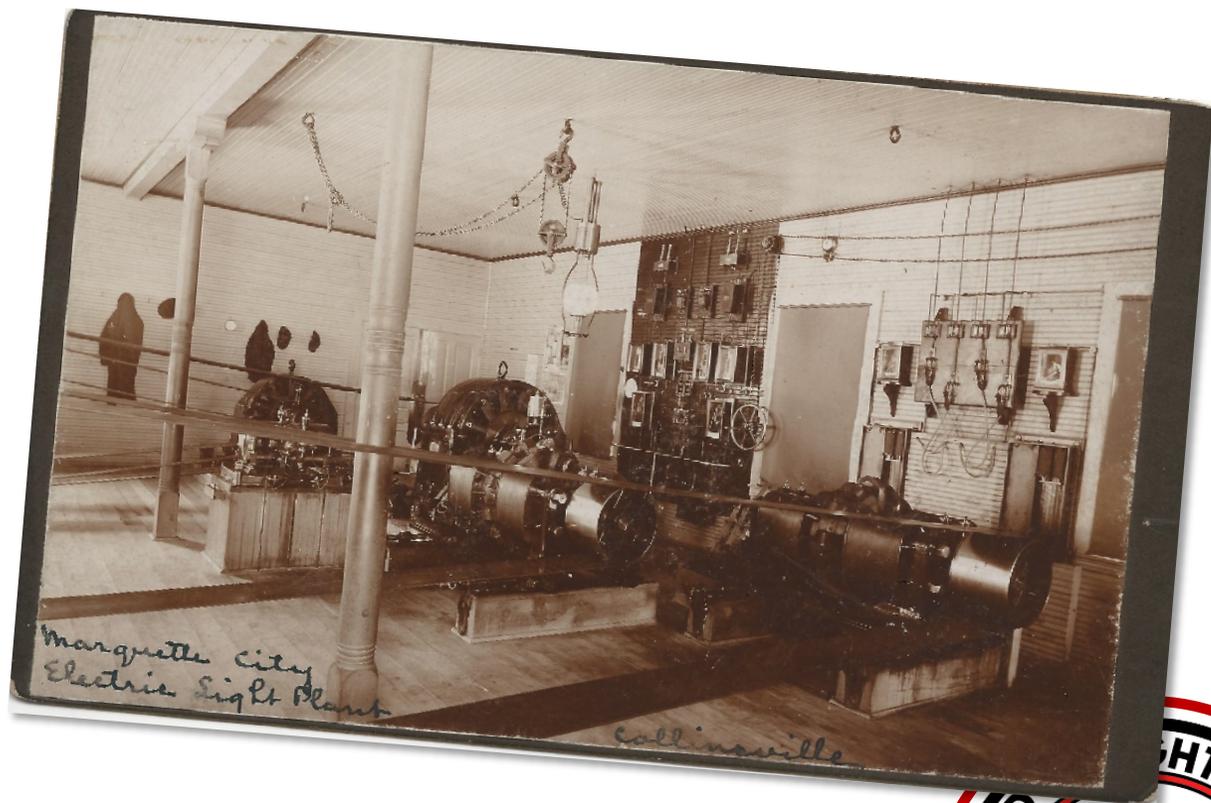


MICHIGAN MUNICIPAL
ELECTRIC ASSOCIATION



MBLP History

- Founded in 1889
- 37 KW Collinsville Hydro
- 127 customers
- 70 streetlights



*“Electricity today is no longer a luxury but an essential of life
and is required for the health and safety of our community”*



MBLP owns and operates two Hydro plants

Forestville and Tourist Park Basins on the Dead River

- 4 MW total output
- 18,000 MWH average annual output
- 3000 homes
- FERC regulated
- Public Recreation



Community Solar Garden

- Upper Michigan's first community solar garden
- Provides a path to solar ownership for all customers
- 155 KW total output
- 480 Panels



Combustion Turbine

- 23 MW Fuel Oil fired
- Back up emergency use only
- Black start
- Located near the Presque Isle Substation close to American Transmission Company interconnection
- Has been used to help support the UP during emergencies



Shiras Steam Plant

- Coal fired plant in operation from 1967-2018
- 3 units with a total output of 78 MW
- Supplied 90% of the MBLP's power for 50 years
- Retired from service in 2018



Marquette Energy Center

- 51 MW reciprocating engine plant
- Primarily natural gas fired with fuel oil backup
- Flexible operations enable fast startup and shutdown
- Black start capable
- On site fuel storage for emergencies
- Flexible operating characteristics allow for hourly dispatch against the market
- **\$4.2 million** passed back to customers since the plant was put online



Midcontinent Independent System Operator (MISO)

- MISO Load Serving Entity
- Own and operate 100% of our generating capacity needs behind the meter
- Point to Point transmission service
- Interconnected with American Transmission Company via a single 69 KV interconnection
- Own two 69 KV transmission lines and three 69 KV substations
- Generators can be dispatched as load modifying resources during emergencies



Environmental Impact

- By taking advantage of the clean, efficient, and flexible operating characteristics of the Marquette Energy Center the MBLP has substantially reduced pollutants emitted each year while at the same time lowering the wholesale cost of supplying the energy needed for the Marquette community.
 - 99.6% reduction in Sulfur Dioxide emissions
 - 93% reduction in Nitrogen Oxide emissions
 - 96% reduction in Carbon Monoxide emissions
 - 75% reduction in Carbon Dioxide emissions
 - 17,000 tons of ash per year not being landfilled
- Voluntary Green Pricing Program
- Renewable energy from Solar and Hydro plants
- Energy Optimization program



Customer Assistance

- State and Federal assistance provided through numerous local agencies
- Generating Change program developed internally to facilitate donations to low income energy assistance
- Generating Change implemented with help from local Salvation Army
- No shutoffs during the heating season



Questions?



906-228-0311



www.mblp.org



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