

Marquette Board of Light and Power
Marquette Energy Center
Reciprocating Internal Combustion Engine (RICE) Project Profile



Client: Marquette Board of Light and Power

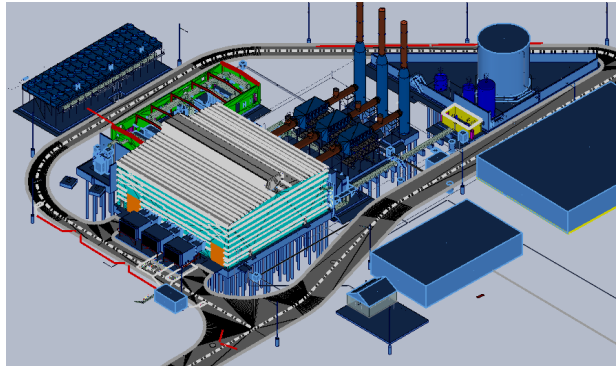
Project: Marquette Energy Center

Location:
Marquette, Michigan
(Upper Peninsula)

RICE Supplier:
Wärtsilä

RICE Model:
18V50DF (3)

RICE Size:
51 MW (3x17-MW)



Fuel: Dual fuel – Oil/natural gas

Schedule Milestones:

Project start
2015

Commercial operation anticipated
2017



Description:

Sargent & Lundy began work on a new-generation study project for the Marquette Board of Light and Power (MBLP) in spring 2015. The study was commissioned to address significant power supply reliability concerns resulting from the expected near-term retirement of a nearby regional coal-fired power plant, a lack of firm transmission import capability for MBLP customers, as well as aging of existing MBLP generating assets. The completed study report recommended that MBLP install large dual-fuel reciprocating internal combustion engine (RICE) technology to provide highly efficient and reliable generation, as well as provide for a stable grid for future renewable energy expansion in the region. Detailed engineering was authorized in summer 2015, based on installation of three 17-MW Wärtsilä 18V50DF RICE machines. The project is being executed using a low-cost multiple lump-sum contracting strategy, with MBLP purchasing major equipment. Sargent & Lundy has responsibility for permit support, engineered equipment and installation labor specifications, as well as all balance-of-plant (BOP) engineering and design deliverables. The project is located near an existing substation, adjacent to MBLP's headquarters in Marquette, Michigan.

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