



Coldwater Board of Public Utilities



Client
Coldwater BPU

Capacity
13 MWe

Location
Coldwater, Michigan

Commissioning
2015

Manufacturer
GE

Primary Fuel
Natural Gas

Type
3 x JMS624

Coldwater Board of Public Utilities is a member of Michigan South Central Power Agency (MSCPA). In 2014, MSCPA selected GE Jenbacher to replace outdated diesel units to help meet energy capacity needs for the city of Coldwater, Michigan. The project is co-located with a 100 acre greenhouse facility that has the capability to use the engine heat and CO₂ for greenhouse fertilization.

The operation mode of the plant is called upon when the utility market pricing deems it viable to generate their own electricity. The three JMS624 generator sets provide enough electricity to power the equivalent of 13,000 American homes, and for maximum efficiency, the plant is engineered and designed to use captured heat and CO₂, which has been implemented at other greenhouses across the globe.

This process is known as combined heat and power (CHP). “We are excited to begin construction on this new facility to help power the City of Coldwater and support our mission of providing cost-effective and reliable electric service to our customers,” said Director, CBPU. “I look forward to this new natural gas-fueled plant to start operating next year as we diversify our energy generation portfolio and provide a unique opportunity to support Michigan’s growth in greenhouse agriculture.”

Michigan’s agricultural sector contributes \$91.4 billion dollars to the state economy, and more than 923,000 people are employed in the industry. To help maintain the agricultural industry’s success year-round, the new plant was commissioned before the fall season’s colder weather set in and when traditional vegetable growing becomes nearly impossible.



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