



Half Acre Beer Company mCHP Project

Success Story



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— Travis Hixon,

Director of Operations for
Half Acre Beer Company

Installed equipment

- Two EC Power XRGI-25 mCHP units
- Two 450-gallon storage tanks
- Integrated heat recovery and hot water preheating system

Projected energy impact

- Generate up to 48 kilowatts (kW) of on-site electricity
- 14% of building electric load offset
- Recovered waste heat met 59% of annual hot water demand
- 93% total fuel utilization efficiency through mCHP generation

Projected annual impact

- \$17,888 net operating savings
- 138,000 kilowatt hours (kWh) electricity savings

A better batch of savings: how Half Acre Beer Company puts every therm to work

The Peoples Gas Energy Efficiency Program helps businesses identify innovative ways to reduce operating costs by improving energy efficiency.

When Half Acre Beer Company wanted to understand where it could make its next meaningful energy improvement, an engineering study pointed to an opportunity hiding in plain sight. By installing a micro combined heat and power (mCHP) system, the brewery now uses natural gas to generate electricity on-site while putting recovered heat to work in the brewing process — helping lower overall energy costs without disrupting production.

Looking beyond the obvious

After years of investing in sustainability and efficiency, Half Acre has already completed many of the improvements typically recommended for breweries. Rather than assuming there was little left to gain, the brewery applied for an engineering study from the Peoples Gas Energy Efficiency Program to take a closer look at mCHP.

The engineering study confirmed mCHP could successfully improve overall energy performance. Even better, rising electricity prices made generating power on-site with natural gas even more valuable than originally projected.

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Making a complex project feel simple

Implementing the technology was new to a brewery of Half Acre's size.

Working with the Peoples Gas Energy Efficiency Program and project partners Kinergetics, Boilersource, and Stanton Mechanical, the brewery found a way to integrate the system into its existing facility despite limited available space. Installation was carefully coordinated around daily operations, allowing brewing to continue with no interruption.

"They were very respectful and professional working in a live production environment," said Hixon. "Really, there was no lost production time."

A model for other facilities

Every brewery depends on reliable electricity and large volumes of hot water. The mCHP system addresses both needs simultaneously by generating electricity while recovering heat that would otherwise be wasted.

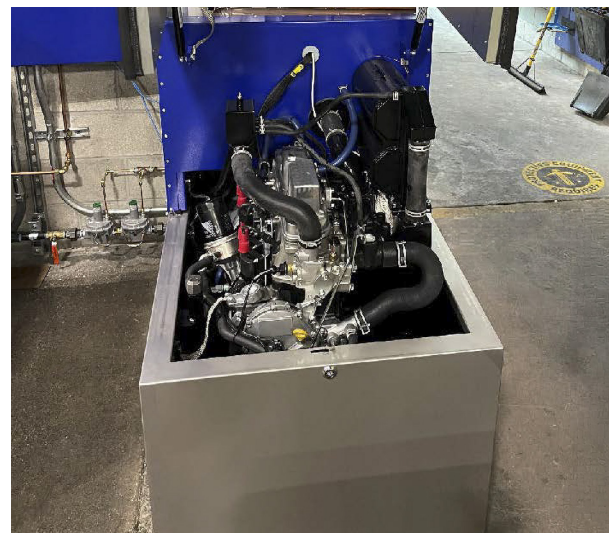
For breweries and other businesses with continuous thermal and electrical demand, mCHP can be a practical way to improve efficiency, reduce operating costs, and make better use of the energy they already consume.

Explore your facility upgrade path

See how mCHP is helping breweries, food processors, and other industries improve efficiency, lower operating costs, and strengthen operational reliability by making better use of energy they already consume.

Interested in learning how mCHP can work for your building?

Contact innovative-solutions@peoplesgasdelivery.com to discuss your options.



For more energy savings information and tips,
go to PeoplesGasDelivery.com/Savings.