

Micro Combined Heat and Power Systems

What is mCHP and why it matters

Micro combined heat and power (mCHP) systems in the 5–100 kilowatt (kW) range are ideal for building owners seeking cost-effective solutions to save natural gas and electric energy. Unlike industrial combined heat and power systems, mCHP systems are smaller than a boiler and can easily integrate into a building's existing infrastructure.

mCHP systems:

- Generate both electricity and useful heat from a single fuel source — like natural gas, biogas or hydrogen.
- Help reduce energy costs and emissions by 40% or more.
- Can achieve total system efficiencies greater than 90%.

This makes mCHP an excellent fit for facilities with simultaneous demands for power and heat — including space heating, hot water, cooling and lighting.

Proven benefits of mCHP solutions

Produce heat and power simultaneously

Reliable energy for your entire operation — from lighting to HVAC and beyond.

Reduce emissions

On-site energy generation using natural gas helps shrink your facility's carbon footprint.

Enhance resiliency

On-site power generation keeps your buildings up and running during power outages — critical for facilities that can't afford downtime.

Generate immediate savings

Lower utility bills starting on day one with rebates and incentives available from our energy efficiency programs to help offset costs. Excess electricity may also be sold to the electric grid. Eligibility and rates for Peoples Gas and North Shore Gas customers are subject to local electric utility requirements.

Ideal applications for 5-100 kW mCHP systems

- **Multifamily residential properties:** Keep tenants safe and comfortable with consistent power and hot water.
- **Commercial buildings:** Boost operational efficiency in hotels, office parks, recreation centers and gyms, and retail centers.
- **Healthcare facilities:** Ensure continuous operation for critical equipment and heating.
- **Small industrial plants:** Meet energy needs for production lines and facility operations.
- **Educational institutions:** Support campus operations with dual-output systems.



Image courtesy of: Axiom Energy Group, LLC.



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Interested in learning how mCHP can work for your building?
Contact innovative-solutions@peoplesgasdelivery.com to learn more.