

Resiliency and Efficiency Benefits of Combined Heat & Power (CHP)

PROPANE IS TRANSFORMING COMMERCIAL & INDUSTRIAL FACILITIES

Faced with rising electricity costs and frequent outages, commercial and industrial facilities are turning to propane CHP systems for affordable and reliable energy. These CHP systems can use propane-powered engines to generate on-site electricity while capturing thermal energy for heating and hot water. Excess electricity can be sent back to the grid, ensuring dependable heat and power without relying on the electric grid.

This efficient, cost-effective, and environmentally friendly solution delivers both energy independence and reduced emissions.

Reliable & Resilient

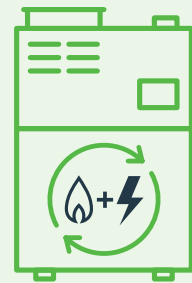
As electricity demand rises, the existing power grid is faced with challenges to deliver sufficient electricity. Propane-powered CHP systems reduce facility consumption, stabilizing the grid and easing congestion during peak demand.

Optimized & Economical

CHP systems deliver significant economic advantages, from reducing energy costs to supporting facility expansions and boosting productivity.

Efficient & Environmentally Friendly

Propane-powered CHP units improve efficiency by capturing waste heat to produce the same energy with less fuel. They also help decarbonize energy production by reducing reliance on grid-based electricity generation, transmission, and distribution.



COMMERCIAL CHP APPLICATIONS

CHP is used in more than 4,400 facilities across the U.S.

- Multifamily
- Manufacturing
- Commercial
- Healthcare
- Hospitality
- Education
- Retail
- Recreation



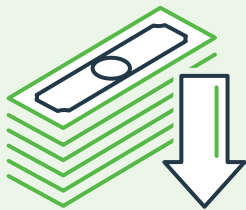
CHP: A Significant Role In The Energy Transition

CHP systems revolutionize commercial and industrial facilities by enhancing energy efficiency, minimizing waste heat and emissions, and delivering electricity and thermal energy precisely where it's needed.



Ensuring Reliability

- Certain propane-powered CHP units minimize extreme weather concerns and risks with black start capabilities, ensuring mission-critical applications remain operational during power outages
- Many CHP units feature built-in modularity and redundancy, ensuring consistent performance even during maintenance or unexpected service interruptions



Driving Cost Savings

- Facilities using CHP generate their own electricity and thermal energy at a lower cost than buying from the grid, while also minimizing exposure to excessive time-of-day and demand charges
- Propane-powered CHP systems are customized to meet a facility's unique needs and are scalable, allowing companies to avoid expensive infrastructure upgrades

"It's cut 30% of the facility's [Maine Army National Guard] energy consumption, creating about \$60,000 of savings per year."

—Dan Burke
*Vice President of
Sales and Marketing*
Dalkia Aegis



► Learn more about how propane-powered CHP systems can help cut energy costs and carbon emissions while improving resilience and redundancy at propane.com/chp.