

Technology Profile

Combined Heat & Power (CHP)

Discover the advantages of Combined Heat and Power (CHP) that deliver efficient, clean and affordable energy for a boost to the bottom line – and it enhances energy resilience. PECO can help offset the up-front costs with incentives available for qualified CHP projects. Take advantage of PECO CHP solutions to improve the overall efficiency, profitability and environmental impact of your facility.

Reduce Costs, Disruptions and Emissions

CHP is a highly efficient solution for improving operations in energy-intensive facilities that require both electricity and thermal energy (or heat). CHP systems provide a portion of a facility's electrical load and capture waste heat from hot exhaust gases that can then be used for space heating, cooling, domestic hot water, dehumidification and/or process heating.

CHP offers a range of benefits for commercial and industrial applications by improving operational efficiency, lowering energy costs, enhancing energy security and reducing emissions.

Energy Efficiency

- CHP systems generate both electricity and heat from a single fuel source.
- CHP recovers and re-purposes thermal energy, which reduces the thermal load needed from fuel sources such as natural gas, propane, fuel oil or electricity.
- By recovering thermal energy, CHP can reduce costs associated with heating and cooling resources including steam, chilled water or hot water.

Enhanced Profitability

- CHP can reduce energy bills because of its high efficiency. By using heat recovery technology to capture wasted heat associated with electricity production, CHP systems typically achieve total system efficiencies of 60%–80%, compared to 50% for conventional technologies (i.e. purchased utility electricity and an on-site boiler).
- Less fuel is needed for a given unit of energy output.
- On-site generation mitigates exposure to price volatility from the electric grid.
- CHP can often reduce the cost of replacing heating or cooling equipment or allow facilities to downsize heating and cooling equipment.



Energy Security

- CHP offers improved resiliency by providing continuous or backup power, allowing facilities to continue operating in the event of a natural disaster or service interruption.

Environmental Stewardship

- CHP dramatically reduces CO₂ and greenhouse gas emissions associated with traditional electricity generation.

Is CHP Right For You?

An ideal customer application for CHP is a facility that has the appropriate electric and thermal load profiles, distribution requirements and footprint availability.

PECO can provide a preliminary assessment to evaluate if CHP is right for qualified customers who have identified the need within their energy and sustainability goals and objectives. To schedule an assessment, call us at 1-844-4BIZ-SAVE (1-844-424-9728).

Customer Applications

Energy-intensive sites with continuous demand for electric and thermal energy are particularly well suited for CHP installations, including:

- Hospitals & Healthcare
- Hospitality & Entertainment
- Industrial & Manufacturing
- Wastewater Treatment Plants
- Educational Institutions
- Multifamily Housing
- Long-term Care
- Commercial Real Estate



Incentives for CHP

Qualifying new CHP generation projects can receive PECO financial incentives to help offset the capital costs required. PECO can help determine if CHP is the right strategy for your business to reduce energy consumption and costs, and improve operations and resiliency.

Incentive Type	Incentive Award
	\$100/MWh in the first year
Performance	The performance incentive is based on net electric generation of the CHP system
Maximum Total	No more than 50% of the project cost, or \$2M, whichever is lower.

► Contact Us Today! For more information, visit peco.com/business or call **1-844-4BIZ-SAVE** (1-844-424-9728).

