

CHP Deployment Program

Combined heat and power (CHP) is an efficient and clean approach to generating on-site electric power and useful thermal energy from a single fuel source. Instead of purchasing electricity from the distribution grid and burning fuel in an on-site furnace or boiler to produce thermal energy, CHP provides both energy services to a facility in one energy-efficient step.

CHP is a suite of commercially available, predominantly gas-fired distributed generation technologies that produce both electricity and thermal energy on-site, thereby reducing line losses and strain on grid infrastructure while also increasing energy efficiency, reliability, and security. The promotion of CHP is part of the EERE mission to create and sustain American leadership in the transition to a strong and prosperous America powered by domestic, affordable, and secure energy for the industrial, manufacturing, federal, institutional, commercial, and multifamily sectors.

Key services include:

- **Market Analysis** – Supporting analyses of CHP market opportunities in diverse markets including industrial, federal, institutional, and commercial sectors:
 - Publications such as CHP Technical Potential in the United States, at energy.gov/chp-potential and a CHP Technology Fact Sheet series, at energy.gov/chp-technologies
 - The DOE CHP Installation Database, at energy.gov/chp-installs, provides information about CHP systems currently operating in the United States including locations, organizations served, and facility characteristics.
 - CHP Project Profiles are two-page summaries of “real world” examples of CHP projects actively providing electricity and thermal energy to their owners/operators. Read about how these projects are working via a user-friendly database at energy.gov/chp-projects
- **Partnership Engagement and Technical Services** – Promote and assist in transforming the market for CHP, waste heat to power, microgrids, and district energy with CHP throughout the United States through DOE’s CHP TAPs¹ by:



- **End User Engagement:** Partner with strategic end users to advance technical solutions using CHP as a cost effective and resilient way to ensure American competitiveness, utilize local fuels, and enhance energy security. CHP TAPs offer fact-based, unbiased engineering support to manufacturing, commercial, institutional, and federal facilities and campuses.
- **Stakeholder Engagement:** Engage with strategic stakeholders, including regulators, utilities, and policy makers, to identify and reduce the barriers to using CHP to advance regional efficiency, promote energy independence, and enhance the nation’s resilient grid. CHP TAPs provide fact-based, unbiased education to advance sound CHP programs and policies.
- **Technical Services:** As leading experts in CHP (as well as microgrids, heat to power, and district energy), the CHP TAPs work with sites to screen for CHP opportunities as well as provide advanced services to maximize the economic impact and reduce the risk of CHP from initial CHP screening to installation.
- **CHP for Resiliency Accelerator** – Collaborating with Partners to support consideration of CHP and other distributed generation solutions for critical infrastructure resiliency planning at the state, local, and utility levels, at betterbuildingsinitiative.energy.gov/accelerators/combined-heat-and-power-resiliency
- **Packaged Combined Heat and Power Catalog (eCatalog)** – Increase CHP deployment in underdeveloped markets with standardized, DOE-recognized packaged CHP systems transforming the marketplace by reducing risk and uncertainty; driven by strong end-user engagement via Market Mover Partners, such as cities, states, and utilities. ■

¹ Detailed CHP TAP contact information found on reverse side of this sheet or at energy.gov/chp-contacts

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