SOLUTION AT A GLANCE: PACKAGED COMBINED HEAT AND POWER E-CATALOG

BARRIER
Identifying or evaluating energy-saving technologies

TOOL TYPE
Guidance

TECHNOLOGY
Combined Heat and Power System

OVERVIEW
The Packaged Combined Heat and Power (CHP) Catalog (eCatalog) is a public-private partnership designed to increase deployment of CHP in commercial, institutional, and multifamily buildings and manufacturing plants. The eCatalog functions as an open source, web-based system that hosts U.S. Department of Energy (DOE)-recognized Packaged CHP Systems. The core of the eCatalog, now available as a version 1 release, are CHP Packagers, who commit to provide pre-engineered and tested Packaged CHP Systems that meet or exceed DOE performance requirements, and CHP Solution Providers, who commit to provide responsible installation, commissioning, maintenance, and service of recognized Packaged CHP Systems and serve as a single point of responsibility for project execution, service, and warranties. Customer Engagement Partners (including state and local jurisdictions and utilities) support CHP deployment by linking their CHP outreach programs, support resources, and incentive programs to the eCatalog. After entering the facility zip code, users can screen results based on key items such as system size (kW), prime mover (reciprocating engines, microturbines, gas turbines, or fuel cells), heat recovery (hot water, steam, cooling, or a combination), and other system attributes including fuel type, grid connection type, and physical size constraints. The eCatalog is focused on Packaged CHP Systems less than 10 MW (individual system capacity) and will be routinely updated to add new packaged CHP systems, Packagers, and Solution Providers. View Packaged CHP eCatalog fact sheet.

https://betterbuildingssolutioncenter.energy.gov/chp/solutions-at-a-glance/us-doe-packaged-chp-ecatalog
For more information, visit https://betterbuildingssolutioncenter.energy.gov
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CUSTOMER ENGAGEMENT PARTNERS: INCENTIVIZING CHP IN YOUR AREA

MAXIMIZE YOUR CHP INVESTMENT WHEN YOU INSTALL RECOGNIZED SYSTEMS

An essential element in market success of energy efficient technologies, such as CHP, is a robust customer engagement partner to educate end-users and provide assistance through the project development process. States, localities and utilities that are implementing programs and policies to increase the use of CHP in support of key economic, security, efficiency and environmental goals can integrate the eCatalog into their efforts by linking recognized CHP packages offered by Solution Providers or Packagers in their region to their programs. The eCatalog provides a unique platform for conveying recognized CHP equipment and suppliers with state, local and utility market outreach, customer acquisition and incentive programs.

eCATALOG PACKAGED CHP SYSTEM PERFORMANCE

Packaged CHP System standardized electrical and thermal performance data presented for comparison in the eCatalog have been reviewed and recognized as accurate based on engineering data and available performance test data submitted by the Packagers. Emissions data presented in the eCatalog are based on either third-party emissions test results when available, or prime mover manufacturer’s emissions certification data, both using standard EPA test methodologies or equivalent. When evaluating CHP performance for a particular project, it is important to use final performance data from the Packager or Solution Provider that reflects specific site conditions such as actual fuel characteristics, ambient temperatures and altitude, and thermal load temperatures or pressures. As an example, hot water thermal capacity ratings in the eCatalog are based on a standard hot water supply temperature of 180°F, with packager specified return temperatures for each system. Actual hot water available from a packaged CHP system for a project will depend on the specific temperature requirements of the hot water supply and return at the site, and may vary from data presented in the eCatalog.