



## 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.

U.S. DEPARTMENT OF ENERGY
COMBINED HEAT & POWER eCATALOG
RECOGNIZED PACKAGE CHP SYSTEMS
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UPDATES
FOR PACKAGEGERS & SOLUTION PROVIDERS
CUSTOMER ENGAGEMENT PARTNERS



**QUICK START**

**FIND CHP PACKAGES**

PRIMARY SITE LOCATION

SUPPLIER PRIORITY

- Recognizing Off-grid Recognized Systems
- Qualifying Processed Off-grid, Resilient, Composites and Reinforcing Recognized Systems
- Qualifying Processed Off-grid, Resilient, Plans
- Qualifying Processed Off-grid Energy Services

POWER OUTPUT

 MW
 

Help Me Choose

PRIME MOVES

- Radiating engines
- Combustion turbines
- Microturbines

THERMAL OUTPUT

- Hot Water Only
- Hot Water and Chilled Water
- Steam Only
- Steam and Hot Water
- Steam, Hot Water, and Chilled Water

FUEL TYPE

- Natural Gas
- Digester Gas

GRID CONNECTION TYPE

- Grid Parallel Only
- Grid Island, Back Start, Auto Transfer

FIND PACKAGES

or SHOP ENTIRE eCATALOG

COMBINED HEAT & POWER eCATALOG OF RECOGNIZED PACKAGE CHP SYSTEMS

## PACKAGED CHP SYSTEMS: RIGOROUS RECOGNITION PROCESS

SHOP THE eCATALOG
ABOUT CHP & PACKAGED SYSTEMS
ENROLL AS A PACKAGEGERS OR SOLUTION PROVIDER

The Packaged Combined Heat and Power Catalog (eCatalog) is a voluntary public/private partnership designed to increase deployment of CHP in commercial, institutional and multi-family buildings and manufacturing plants. The core of the eCatalog are CHP Packagegers 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 also provide a single point of project responsibility.

**CUSTOMER ENGAGEMENT PARTNERS: INCENTIVIZING CHP IN YOUR AREA**

MAXIMIZE YOUR CHP INVESTMENT WITH OUR METAL RECOGNIZED SYSTEMS

An essential element in market success of energy efficient technologies, such as CHP is a robust customer engagement partner to educate and advocate 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 air economic, security, efficiency and environmental goals can integrate the eCatalog into their efforts by listing recognized CHP packages offered by Solution Providers or Packagegers in their region to their programs. The eCatalog provides a unique platform for connecting 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 manufacturers' 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 Packagegers. Emissions data presented in the eCatalog are based on either third-party emissions test results or test results of 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 Packageger or Solution Provider that reflects specific site conditions such as actual fuel characteristics, ambient temperature and altitude, and thermal load temperature or pressure. As an example, hot water thermal capacity ratings in the eCatalog are based on a standard hot water supply temperature of 180°F with packageger 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 demand at the site, and may vary from data presented in the eCatalog.