

The **Better Buildings Initiative** is a national leadership initiative calling on state and local officials, corporate chief executive officers, university presidents, utilities, and other leaders to make substantial commitments to improve the energy efficiency of their buildings and plants, save money, and increase competitiveness. The U.S. Department of Energy (DOE) is expanding this initiative to engage leaders in a set of **Better Buildings Accelerators** designed to demonstrate specific innovative approaches, which, upon successful demonstration, will further accelerate investment in energy efficiency across our homes, buildings, and industrial facilities.

Natural and man-made disasters, like Superstorm Sandy or Hurricane Katrina, focus attention on securing critical infrastructure (CI) for national or regional security, economic continuity, and/or public health and safety. Virtually every community in the U.S. has facilities that fall within the definition of critical infrastructure, needing uninterrupted electricity and heating or cooling services. States and municipalities spend considerable time planning for and reinforcing their critical facilities and seeking resources to install the best economic solution; however, a key technology solution – combined heat and power – is often overlooked.

Combined heat and power (CHP) has proven effective in ensuring uninterrupted electrical service through multiple major disasters in hospitals, schools, places of refuge, and other CI. CHP systems simultaneously generate electricity and produce thermal energy, maintaining needed power, hot water and space conditioning services on-site at high efficiency. And, unlike diesel back-up generators, CHP typically does not require over-land fuel deliveries. The DOE is launching the **Combined Heat and Power for Resiliency Accelerator** to support and expand considerations of CHP solutions by states, communities and utilities for their critical infrastructure needs. As a collaborative effort with states, communities, utilities and other stakeholders the Accelerator will examine the perception of CHP among resiliency planners, identify gaps in current technologies or information relative to resiliency needs, and develop plans for communities to capitalize on CHP's strengths as a reliable, high efficiency, lower emissions electricity and thermal energy source for critical infrastructure.

More specifically, the **Combined Heat and Power for Resiliency Accelerator** partners will work to:

- ▶ **Establish** a dialogue on the current and/or planned usage of CHP in resiliency planning for critical infrastructure (CI), the value propositions for using CHP in CI, and any barriers for CHP in CI at the state, community, and utility levels.
- ▶ **Expand** existing or new resiliency plans to include CHP as a solution, including:
 - ▶ Identify any technical, policy or economic barriers impeding CHP installations in CI.
 - ▶ Promote the merits of CHP and, in particular, CHP's value proposition in resiliency planning.
 - ▶ Identify and assess the appropriateness of CHP for critical facilities in their jurisdiction.
 - ▶ Establish solutions to overcome barriers and increase CHP usage in their community.
- ▶ **Share** resiliency action plans that include CHP as a solution option with other communities.
- ▶ **Document** replicable models for using CHP as a resiliency strategy based on the experience of partners.
- ▶ **Create** a decision support tool for assessing and prioritizing the appropriateness of CHP for critical infrastructure facilities within a jurisdiction.
- ▶ **Publish** a toolkit to support communities in utilizing CHP as a resiliency solution in critical infrastructure.

The **Combined Heat and Power for Resiliency Accelerator** will demonstrate opportunities for CHP to be best utilized for critical infrastructure resiliency. By providing examples of best practices, Accelerator partners will collaborate to formulate actionable community resiliency planning with CHP options for critical infrastructure that includes the economic opportunity. A Toolkit will be developed of templates and documentation for other communities to replicate as they assess their resiliency options for critical infrastructure.

Accelerator Partner Agrees To:

- ▶ **Appoint** a lead to coordinate the Partner's involvement in the Accelerator
- ▶ **Convene** or actively participate in local dialogue around the value proposition for CHP in resiliency planning
- ▶ **Identify** barriers in your community to including CHP in resiliency planning for critical infrastructure (within 6 months, take action to help overcome at least one barrier; within 18 months, implement solutions)
- ▶ **Develop** a community resiliency action that incorporates CHP in resiliency planning for critical infrastructure and identifies specific facilities where CHP can provide a solution
- ▶ **Share** processes and procedures utilized to support replication in other communities

US Department of Energy Agrees To:

- ▶ **Convene** and facilitate Partners to work collaboratively to accomplish the goals of the Accelerator
- ▶ **Create** networking opportunities to help Accelerator Partners share innovative approaches among peers
- ▶ **Provide** CHP technology and policy expertise, including providing economic and technical screenings of Partner facilities
- ▶ **Create** a forum for the collection of best practices, tools and technology templates to facilitate support for developing robust resiliency plans that include CHP
- ▶ **Provide** support to Partners as they develop resiliency plans incorporating CHP
- ▶ **Develop** a decision support tools and other toolkit materials to enable replication of partner-identified best practices elsewhere across the country

Agreement:

My organization is committed to the goals of this Better Buildings Accelerator and pledges to lead in identifying the best opportunities for combined heat and power to be included in community resiliency planning for critical infrastructure.

SENIOR EXECUTIVE OFFICER SIGNATURE

DATE

SENIOR EXECUTIVE PRINTED NAME

Point of Contact Information:

ORGANIZATION

ADDRESS

REPRESENTATIVE NAME

TITLE

PHONE NUMBER

EMAIL ADDRESS

General Terms:

- ▶ All parties concur that this agreement is wholly voluntary and may be terminated by any party at any time, and for any reason, with no penalty.
- ▶ Partner will not construe, claim, or imply that its participation in the Better Buildings Initiative constitutes Federal Government approval, acceptance, or endorsement of anything other than Partner's commitment to the initiative.
- ▶ Partner understands its participation in the Better Buildings Initiative does not constitute Federal Government endorsement of Partner.
- ▶ Partner understands that the activities it undertakes in connection with the Better Buildings Initiative are voluntary and not intended to provide services to the Federal Government. Partner will not submit a claim for compensation to any federal agency.
- ▶ The Better Buildings Initiative will honor all requests to keep the Partner's information and data confidential.