

The U.S. Department of Energy's (DOE) Federal Energy Management Program (FEMP) is launching a **Federal Smart Buildings Accelerator** to design and implement specific approaches to increase the adoption of smart building and grid responsive technologies that manage electric loads in facilities. This **accelerator will support major DOE and Federal Government-wide goals** such as enhanced resilience, increased energy cost savings, and advancing electrification and decarbonization of federal sites and fleets. This accelerator leverages technologies and practices validated by the Building Technologies Office (BTO) and General Services Administration (GSA), or Smart Building, around Grid-Interactive Efficient Buildings (GEBs) that enhance site interoperability with the grid, further grid flexibility and provide additional grid support services. This effort will develop and pilot training, tools, and best practices for federal sites to evaluate and finance grid-interactivity as they evaluate their facilities and develop improvement plans that enhance site cost savings and resilience and support decarbonization of their fleets and buildings.

A **Grid-Interactive Efficient Building (GEB)** is an energy efficient building with connected and smart technologies characterized by use of flexible Distributed Energy Resources (DER) and grid-responsive technologies to optimize energy use for utility benefits, occupant benefits, new manufacturer offerings, and/or societal benefits.

The Federal Smart Buildings Accelerator, called for in the **Energy Act of 2020**, will bring together key stakeholders from across the U.S. Government to lead by example by implementing GEB technologies at their facilities. Participants will help DOE fully articulate the value proposition for GEBs and develop the tools and processes necessary for Federal sites to adopt grid-interactive technologies for buildings and fleets. This effort will lead to considerable carbon and cost savings for Federal agencies and support the development of clean energy jobs and technologies.

The program will develop and implement tools and resources that lead to the implementation of GEB measures. Potential participant sites will be evaluated based on cost-effectiveness, promise for increasing building carbon reduction, ability to engage local utilities and grid operators, and limitations of necessary cybersecurity.

Goals of the GEB Accelerator:

- ▶ **Convene and receive 'in the field' input** over ~2 years on the state of GEB technologies in Federal sites as well as the gaps and needed resources to educate and train site level personnel.
- ▶ **Develop and pilot a tool to assess** GEB technologies and develop plans for implementation in Federal facilities in the U.S. DOE will not fund installation of technologies through this effort but will help prepare Agencies to identify financing mechanisms that can be used.
- ▶ **Screen and identify GEB technologies** that are applicable to Federal buildings and have a high potential GEB adoption with various types and sizes of facilities and in various geographic locations.
- ▶ **Produce training and education resources** for GEB technology assessment and operators to ensure peak carbon and cost savings along with guides and strategies to implement GEBs smoothly and efficiently.

The Accelerator Partner Agrees to:

- ▶ **Identify 1-3 sites and a Site Participant** who will actively participate in the 2-year process of the Accelerator and will commit to providing input into the development of the Accelerator's resources
- ▶ **Recruit the servicing utility and any key contractors or ESCO's** supporting each site to participate
- ▶ **Validate the developed resources** to identify your facility's current capabilities, needs, and barriers to implementing GEB measures
- ▶ **Support the development of case studies, best practices, and snapshots** that highlight the findings, and lessons learned from implementing the action plan with partners

U.S. Department of Energy Agrees to:

- ▶ **Staff and fund** the accelerator process
- ▶ **Fund the development of tools and resources** necessary to support partners implementing GEB technologies in their facilities and aid them in utilizing those tools and resources
- ▶ **Develop training resources** for GEB operators and support personnel
- ▶ **Appoint** a point of contact for partners
- ▶ **Create and facilitate networking** and technical peer exchange opportunities with stakeholder organizations and other partners to develop and share best practices, lessons learned, and innovative solutions

For more information, email Jason Koman Jason.Koman@ee.doe.gov

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.

Better Buildings Federal Smart Building Accelerator Partner Agreement:

My organization is committed to forging a path toward grid-interactive smart buildings in our facilities and agrees to the General Terms of the agreement stated above.

Leadership Sign-Off

Name/Title: [NAME/TITLE HERE] Date: [DATE HERE]

Any relevant info to share: [INSERT HERE]

Point of Contact Site 1:

Site Info: [NAME/CITY/STATE]

Federal Site Participant: [NAME/TITLE HERE] E-mail: [ADDRESS HERE] Phone: [# HERE]

Utility Participant: [NAME/TITLE HERE] E-mail: [ADDRESS HERE] Phone: [# HERE]

Point of Contact Site 2:

Site Info: [NAME/CITY/STATE]

Federal Site Participant: [NAME/TITLE HERE] E-mail: [ADDRESS HERE] Phone: [# HERE]

Utility Participant: [NAME/TITLE HERE] E-mail: [ADDRESS HERE] Phone: [# HERE]

Point of Contact Site 3:

Site Info: [NAME/CITY/STATE]

Federal Site Participant: [NAME/TITLE HERE] E-mail: [ADDRESS HERE] Phone: [# HERE]

Utility Participant: [NAME/TITLE HERE] E-mail: [ADDRESS HERE] Phone: [# HERE]