

Notice of Intent No. DE-FOA-0001595

Notice of Intent to Issue Funding Opportunity Announcement No. DE-FOA-0001518

The Office of Energy Efficiency and Renewable Energy (EERE) intends to issue, on behalf of the Building Technologies Office, a Funding Opportunity Announcement (FOA) entitled “Scaling up the Next Generation of Building Efficiency Packages”.

The anticipated funding opportunity will seek innovative partnerships to significantly and rapidly increase the uptake of emerging and underutilized energy efficient and cost-effective building technology packages. The Commercial Buildings Integration (CBI) program, working in cooperation with the General Services Administration’s (GSA) Green Proving Ground program¹, will invest funds towards this competitive Funding Opportunity Announcement. EERE will seek applications that drive innovation in real building technology demonstrations while also fostering the collaboration of dynamic teams including deployment entities (states, local governments or Regional Energy Efficiency Organizations), efficient building hubs (such as Innovation or Incubator hubs), utilities, technology providers and/or building energy analysis professionals.

This anticipated FOA builds from the outcomes of existing demonstration projects, laboratory testing and simulation analysis of technology packages. Successful applicants to this FOA will propose high impact real building demonstrations led by strategically structured teams who will identify and verify the cost and energy performance of multi-system energy efficiency packages. Multi-system packages are groups of technologies that improve efficiency across two or more building systems: envelope, lighting/electrical, plug, process, heating, ventilation, cooling, refrigeration, energy management and information, sensors and controls. Applications selected for award negotiations through this funding opportunity will create new synergies between building stakeholder groups and ultimately leverage the \$8 billion in annual Energy Efficiency (EE) program expenditures and/or support development of more aggressive and ambitious EE program offerings.

Key components of the anticipated FOA will include:

- Technology packages that improve efficiency across **two or more building systems** with preference for those packages that build off of the current High Impact Technology Priority List, <http://energy.gov/eere/buildings/high-impact-technology-catalyst>, and/or outcomes of previous demonstration projects, simulation analyses and/or existing BTO research and development (R&D) investments in envelope retrofits and multi-system, interoperable controls.

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- Documentation to establish package energy savings of **50% across a building market segment or 750 Tbtu/yr in national energy savings potential at 100% penetration.**
- Strategic teams with a **technology provider, utility, and deployment lead.** EERE will prefer applications including partners representing large portfolios of buildings.
- Demonstrate the capability and commitment to rapidly initiate and complete the demonstrations in **less than three years with a clear, strategic path to broad adoption (including regulatory approval where appropriate).**

The objective of this funding is to generate and disseminate data from real-world demonstration projects. This data will be incorporated into case studies, performance specifications and other information that lowers perceived risk regarding the efficacy and economic benefits of innovative and under-utilized commercial building technology packages. Demonstrations of the technology packages funded through this anticipated FOA are likely to meet the investment hurdles for the commercial real estate market at scale, but may not at the current time. Successful applicants to this FOA will have the potential to significantly reduce energy consumption in U.S. commercial buildings.

The technical and/or non-technical products of this funding will enable investment-level decision-making to reduce building capital costs by optimizing building loads and downsizing equipment, and will accelerate the development of energy efficiency programs for packages of technologies to meet cost-effectiveness thresholds.

Successful applicants included in GSA's Green Proving Ground, <http://www.gsa.gov/gpg>, will drive early adoption through federal leadership by example, providing the opportunity to leverage GSA facilities as a test bed for verification of performance, cost savings, installation, commissioning, tenant acceptance and other non-energy benefits that help drive adoption. National Laboratories are not eligible to apply but will provide site evaluation, technical assistance and third party cost and performance analysis of the packages.

Projects funded through this opportunity will leverage current DOE resources ([High Impact Technology Catalyst](#), <http://energy.gov/eere/buildings/high-impact-technology-catalyst>, [Building Performance Database](#), <http://energy.gov/eere/buildings/building-performance-database>, [Advanced Energy Retrofit Guides](#), <http://energy.gov/eere/buildings/advanced-energy-retrofit-guides>, [Open Studio](https://www.openstudio.net/), <https://www.openstudio.net/>, and [Uniform Methods Project](#), <http://energy.gov/eere/about-us/ump-home>) and be widely replicable by other energy efficiency programs.

EERE envisions awarding multiple financial assistance awards in the form of cooperative agreements. The estimated period of performance for each award will be approximately three years.

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This Notice is issued so that interested parties are aware of the EERE's intention to issue this FOA in the near term. All of the information contained in this Notice is subject to change. EERE will not respond to questions concerning this Notice. Once the FOA has been released, EERE will provide an avenue for potential Applicants to submit questions.

EERE plans to issue the FOA on or about October via the EERE Exchange website <https://eere-exchange.energy.gov/>. If Applicants wish to receive official notifications and information from EERE regarding this FOA, they should register in EERE Exchange. When the FOA is released, applications will be accepted only through EERE Exchange.

In anticipation of the FOA being released, Applicants are advised to complete the following steps, which are **required** for application submission:

- Register and create an account in EERE Exchange at <https://eere-exchange.energy.gov/>. This account will allow the user to register for any open EERE FOAs that are currently in EERE Exchange. It is recommended that each organization or business unit, whether acting as a team or a single entity, use only one account as the contact point for each submission.

Questions related to the registration process and use of the EERE Exchange website should be submitted to: EERE-ExchangeSupport@hq.doe.gov

- Obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number (including the plus 4 extension, if applicable) at <http://fedgov.dnb.com/webform>
- Register with the System for Award Management (SAM) at <https://www.sam.gov>. Designating an Electronic Business Point of Contact (EBiz POC) and obtaining a special password called an MPIN are important steps in SAM registration. Please update your SAM registration annually.
- Register in FedConnect at <https://www.fedconnect.net/>. To create an organization account, your organization's SAM MPIN is required. For more information about the SAM MPIN or other registration requirements, review the FedConnect Ready, Set, Go! Guide at https://www.fedconnect.net/FedConnect/Marketing/Documents/FedConnect_Ready_Set_Go.pdf
- Register in Grants.gov to receive automatic updates when Amendments to a FOA are posted. However, please note that applications will not be accepted through Grants.gov. <http://www.grants.gov/>. All applications must be submitted through EERE Exchange.

ⁱ Applicants will be given the opportunity to indicate whether or not they would like to participate in the Green Proving Ground program as a part of their proposal.

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