

Notice of Intent No. DE-FOA-0001200**Notice of Intent to Issue
Funding Opportunity Announcement No. DE-FOA-0001117**

The Office of Energy Efficiency and Renewable Energy (EERE) intends to issue, on behalf of the Building Technologies Office (BTO), a Funding Opportunity Announcement (FOA) entitled “Building America Industry Partnerships for High Performance Housing Innovations.”

The proposed FOA supports EERE’s 2015 effort for the Building America Research Program to implement Market Stimulation of Innovations sub-strategy in the residential building sector. The Building America Research Program is the Residential Buildings Integration (RBI) Program’s premier applied research program. The Program is responsible for over 40 housing innovations to date that have enabled technology and market advancements in residential energy efficiency. Since 1994, the rigor of the national energy code has increased over 40% by applying high performance building envelope innovations proven with Building America research and demonstration. For more information about the Building America Program, please visit: <http://energy.gov/eere/buildings/building-america-bringing-building-innovations-market>

Selected teams will conduct applied Research and Development (R&D) in real world houses to demonstrate market-relevant strategies that will lead to 40% energy savings in existing homes (pre-post retrofit) by 2030 and 50% savings in new homes (over International Energy Conservation Code (IECC) 2009) by 2025. Building America teams will focus on three inter-related core technical challenges in the next three years.

- A. High performance building envelope assemblies and systems for low-load homes¹ that are affordable, easy to construct or retrofit, durable, acceptable to production builders and contractors, and eventual code adoption;
- B. Optimal comfort systems (i.e., heating, cooling, air distribution & humidity control) for low-load homes that are affordable, easy to install in new construction or home energy retrofit, have negligible distribution losses, operate efficiently at part load, and provide reliable control of temperature and humidity throughout the home; and
- C. High performance ventilation systems & indoor air quality (IAQ) strategies that are affordable and easy to install or retrofit, effectively control outdoor air delivery and occupant exposure to pollutants of concern without adversely affecting thermal comfort or indoor relative humidity (RH), and include automatic system failure detection.

¹ Low load homes have highly insulated building envelope assemblies (foundation, walls, roof) that substantially reduce whole house heating and cooling requirements – i.e., the space-conditioning loads placed on the HVAC system.

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With this FOA, EERE will fund high impact projects that develop and demonstrate integrated solutions to any or all of these core technical challenges, primarily focused on solutions for U.S. climate zones with the greatest need – i.e., Hot/humid, Mixed Humid, and Cold climates. Applicants may propose either of the following approaches:

- Substantially solve one of these three core technical challenges comprehensively and cost-effectively without exacerbating the other two, or
- Address all three problems at once for high impact target market segments (identified & quantified).

In either case, applicants will address whether proposed projects will demonstrate solutions in new homes or existing homes or both, and how their proposed solutions can be implemented at scale.

EERE envisions awarding multiple financial assistance awards in the form of cooperative agreements. The estimated period of performance for each award will be approximately 2 to 3 years.

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 in late calendar year 2014 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

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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/PublicPages/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.

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