#### EERE 205: FOA Applicant Webinar Presentation



Energy Efficiency & Renewable Energy



Scaling Up the Next Generation of Building Efficiency Packages CommercialBuildings@ee.doe.gov FOA Webinar DE-FOA-0001518 November 2, 2016

#### Anticipated Schedule:

FOA Issue Date:	10/19/2016
FOA Informational Webinar:	11/02/2016
Submission Deadline for Concept Papers:	11/21/2016
	5:00pm ET
Submission Deadline for Full Applications:	02/21/2017
	5:00pm ET
Expected Submission Deadline for Replies to Reviewer Comments:	03/29/2017
	5:00pm ET
Expected Date for EERE Selection Notifications:	May 2017
Expected Timeframe for Award Negotiations:	June 2017



## **Before We Begin**

- Please carefully read the Funding Opportunity Announcement DE-FOA-0001518 ("FOA") and adhere to the stated submission requirements.
- This presentation summarizes the contents of FOA. If there are any inconsistencies between the FOA and this presentation or statements from DOE personnel, the FOA is the controlling document.
- For questions please contact CommercialBuildings@ee.doe.gov.



- 1) Program Overview
- 2) FOA Objectives and Topics
- 3) Teaming List
- 4) Award Information
- 5) Schedule
- 6) Statement of Substantial Involvement
- 7) Cost Sharing
- 8) Merit Review and Selection Process
- 9) Registration Requirements
- 10) Tips for Submissions



# **Commercial Buildings Represent Significant Opportunity**

- \$410 billion/year
- 75% of the nation's electricity
- Contributes 40% of greenhouse gas emissions



Building efficiency products represent \$60 billion in U.S. revenue; up 43% over the last 4 years.



### **But Energy Savings is Complicated!**



## **High Impact Technology: A Strategic Approach**

**Goal**: identify and prioritize cost-effective, underutilized, energyefficient technologies

**Strategic Emphasis**: accelerate underutilized technologies into the market through pre-identified and pre-defined pathways





# **Calculating Adoption across U.S. Buildings**











Output national energy/CO<sub>2</sub> reductions and their costeffectiveness



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https://github.com/trynthink/scout

# The High Impact Technology Priority List

Deployment prioritization enables partners to focus on market-ready, high potential technologies in a shifting landscape with multiple, complicated choices.



#### http://energy.gov/eere/buildings/high-impact-technology-catalyst



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# **FOA Background and Objectives**

- 1. Foster new partnerships that bridge current gaps between research scientists/building experts, manufacturers, utilities and building owners.
- 2. Identify and verify multi-system energy efficiency packages (groups of technologies that improve efficiency across two building systems: envelope, lighting/electrical, plug, process, heating, ventilation, cooling, refrigeration, energy management and information, sensors and controls).
- 3. Help utilities develop and release or expand more aggressive and ambitious Energy Efficiency (EE) program offerings.
- 4. Generate and disseminate data, case studies, and information that lowers perceived risk regarding the efficacy and economic benefits of innovative and under-utilized commercial building technology packages



# **Topic Areas/Technical Areas of Interest**

- Technology packages that improve efficiency across two building systems with preference for those packages that build off of HIT List, outcomes of previous demonstration projects, simulation analyses and/or existing BTO R&D investments in envelope retrofits and multi-system, interoperable controls.
- 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 include a technology provider, utility, and deployment lead. BTO 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).



## **Technology Demonstrations**

Need Verification of Performance to Lower Perception of Risk = Real Building Demonstrations.

#### Match Demonstrations, Buildings and National Laboratories:

•Evaluate Sites (as applicable) •3<sup>rd</sup> party measurement and verification. Demonstration generates performance data and market information. Cultivate the path to market through dissemination of information and resources to enable adoption by partners.



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- Applications that do not include technology packages that improve efficiency across two building systems.
- Applications for technology packages that do not document energy savings of 50% across a building market segment or 750 TBtu/year in national energy savings potential at 100% penetration.
- Applications for technologies that are not market ready. For example, a technology(ies) that cannot be specified and purchased within one year of the award agreement is not market ready.
- Technologies with market barriers that cannot be addressed through resource development, training and outreach. For example, the technology cannot meet local code requirements.



The following types of applications will be deemed nonresponsive and will not be reviewed or considered for an award:

- Applications that fall outside the technical parameters specified in Section I.B of the FOA, including but not limited to:
  - Applications for proposed technologies that are not based on sound scientific principles (e.g., violates the law of thermodynamics).



### **Teaming Partners**

- To facilitate the formation of innovative project teams for this FOA, a Teaming Partner List is available on the EERE Exchange website:
  - https://eere-exchange.energy.gov/Default.aspx#FoaId746d7b5b-0f97-4848-b7d9-ba4f66905af9
- Any organization that would like to be included on this list should submit the following information to
  - Organization Name
  - Generic Organizational Contact Email (to receive queries related to this Teaming RFI)
  - Organization Type
  - Area of Technical, Market or Building Science Expertise
  - Brief Description of Capabilities
  - A statement of consent acknowledging that you permit DOE to share the aboveprovided information with other entities as part of this teaming list for the purpose of facilitating teaming arrangements for the anticipated *Scaling Up Packages* FOA.
- By facilitating this Teaming Partner List, EERE does not endorse or otherwise evaluate the qualifications of the entities that self-identify themselves for placement on the Teaming Partner List



# **Award Information**

Total Amount to be Awarded (DOE only)	\$6.5 million*
Average Award	EERE anticipates making awards that range from \$250K to
Amount (Federal	\$700K
share only)	
Types of Funding	Cooperative Agreements, Grants, Technology Investment
Agreements	Agreements, Work Authorizations, and Interagency
	Agreements
Period of	Up to 36 months
Performance	
Cost Share Requirement	50% of Total Project Costs
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\*Subject to the availability of appropriated funds



# **FOA Timeline**



#### EERE anticipates making awards by June 2017



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## **Statement of Substantial Involvement**

EERE has substantial involvement in work performed under Awards made following this FOA. EERE does not limit its involvement to the administrative requirements of the Award. Instead, EERE has substantial involvement in the direction and redirection of the technical aspects of the project as a whole. Substantial involvement includes, but is not limited to, the following:

- EERE shares responsibility with the Recipient for the management, control, direction, and performance of the Project.
- EERE may intervene in the conduct or performance of work under this Award for programmatic reasons. Intervention includes the interruption or modification of the conduct or performance of project activities.
- EERE may redirect or discontinue funding the Project based on the outcome of EERE's evaluation of the Project at that the Go/No Go decision point.
- EERE participates in major project decision-making processes.



Applicants must contribute a minimum of 50% of the total project costs.

- Cost Share must be allowable and must be verifiable upon submission of the Full Application
- Refer to the following applicable Federal cost principles:

Entity	Cost Principles
For-profit entities	FAR Part 31
All other non-federal entities	2 CFR Part 200 Subpart E - Cost Principles



- Cash Contributions
  - May be provided by the Prime Recipient, Subrecipients, or a Third Party
- In-Kind Contributions
  - Can include, but are not limited to: personnel costs, indirect costs, facilities and administrative costs, rental value of buildings or equipment, and the value of a service, other resource, or third party in-kind contribution



# **Unallowable Cost Share**

- The Prime Recipient may not use the following sources to meet its cost share obligations including, but not limited to:
  - Revenues or royalties from the prospective operation of an activity beyond the project period
  - Proceeds from the prospective sale of an asset of an activity
  - Federal funding or property
  - Expenditures reimbursed under a separate Federal Technology Office
  - Independent research and development (IR&D) funds
  - The same cash or in-kind contributions for more than one project or program



#### **Cost Share Payment**

- Recipients must provide documentation of the cost share contribution, incrementally over the life of the award
- The cumulative cost share percentage provided on <u>each</u> <u>invoice</u> must reflect, at a minimum, the cost sharing percentage negotiated
- In limited circumstances, and where it is in the government's interest, the EERE Contracting Officer may approve a request by the Prime Recipient to meet its cost share requirements on a less frequent basis, such as monthly or quarterly. See Section III.B.7 of the FOA.



### **Review and Selection Process**

- The Merit Review process consists of multiple phases that each include an initial eligibility review and a thorough technical review
- Rigorous technical reviews are conducted by reviewers that are experts in the subject matter of the FOA
- Ultimately, the Selection Official considers the recommendations of the reviewers, along with other considerations such as program policy factors, to make the selection decisions

Please carefully read and respond to review criteria for both concept papers and full applications.



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### **Replies to Reviewer Comments**

- EERE provides applicants with reviewer comments
- Applicants are <u>not</u> required to submit a Reply it is optional
- To be considered by EERE, a Reply must be submitted by 3/29/2017, 5:00pm ET and submitted through EERE Exchange
- Content and form requirements:

Section	Page Limit	Description
Text	2 pages max	Applicants may respond to one or more reviewer comments or supplement their Full Application.
Optional	1 page max	Applicants may use this page however they wish; text, graphs, charts, or other data to respond to reviewer comments or supplement their Full Application are acceptable.



# **Registration Requirements**

- To apply to this FOA, Applicants must register with and submit application materials through EERE Exchange: https://eere-Exchange.energy.gov
- Obtain a "control number" at least 24 hours before the first submission deadline
- Although not required to submit an Application, the following registrations must be complete to receive an award under this FOA:

<b>Registration Requirement</b>	Website
DUNS Number	http://fedgov.dnb.com/webform
SAM	https://www.sam.gov
FedConnect	https://www.fedconnect.net
Grants.gov	http://www.grants.gov



# **Key Submission Points**

- Check entries in EERE Exchange
  - Submissions could be deemed ineligible due to an incorrect entry
- EERE strongly encourages Applicants to submit 1-2 days prior to the deadline to allow for full upload of application documents and to avoid any potential technical glitches with EERE Exchange
- Make sure you hit the submit button
  - Any changes made after you hit submit will un-submit your application and you will need to hit the submit button again
- For your records, print out the EERE Exchange Confirmation page at each step, which contains the application's Control Number



# Questions

- Questions about this FOA? Email CommercialBuildings@ee.doe.gov
  - All Q&As related to this FOA will be posted on EERE Exchange
    - You must select this specific FOA Number in order to view the Q&As
  - EERE will attempt to respond to a question within 3 business days, unless a similar Q&A has already been posted on the website
- Problems logging into EERE Exchange or uploading and submitting application documents with EERE Exchange? Email EERE-ExchangeSupport@hq.doe.gov.

o Include FOA name and number in subject line

