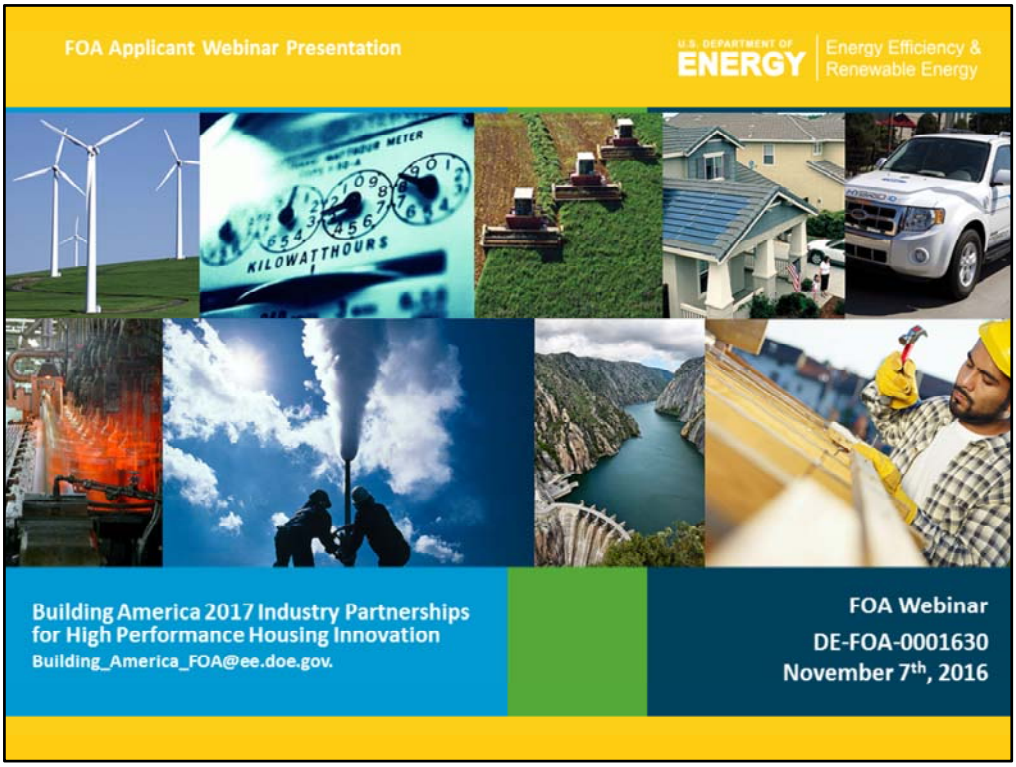


Good [afternoon, everyone and welcome to our webinar. Thank you for your interest in the U.S. Department of Energy's efforts on renewable energy and energy efficiency. You are joining us for the Informational Webinar for Applicants and other Interested parties for the Building America 2017 Industry Partnerships for High Performance Housing Innovation

Funding Opportunity Announcement, or FOA, which was issued on November 3rd, 2016. My name is Eric Werling and I am a Program Manager in the Building Technologies Office within the DOE's Office of Energy Efficiency and Renewable Energy. We hope to cover the basic aspects of the Funding Opportunity Announcement during this webinar.

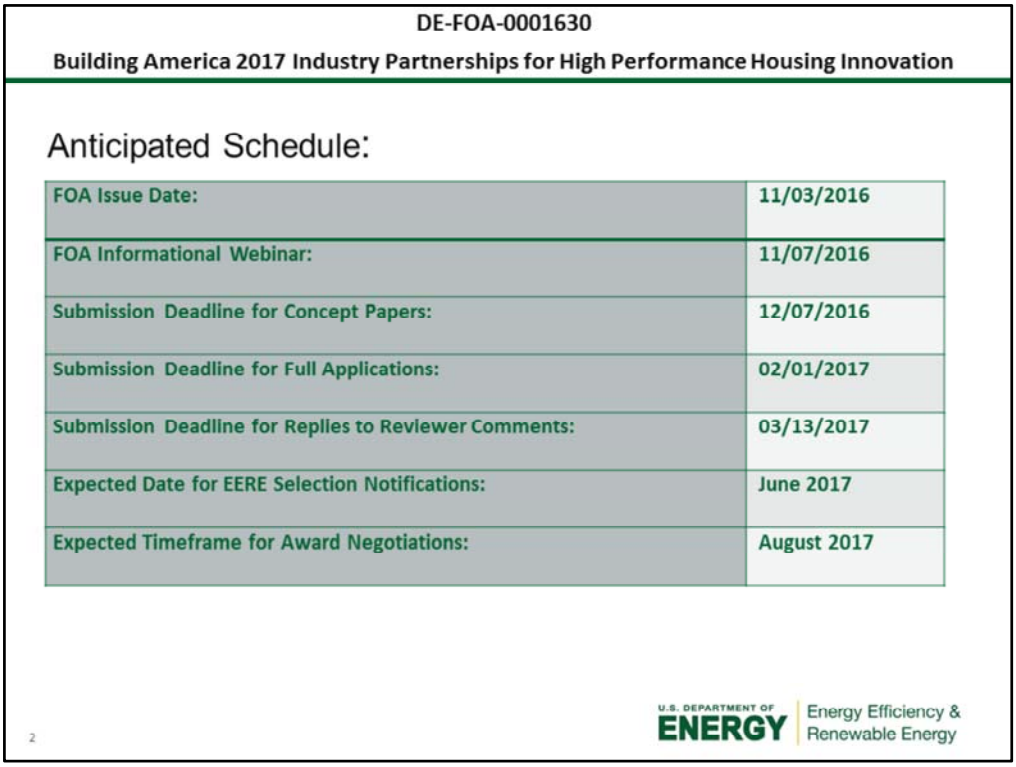
Before we begin, I'd like to draw your attention to the email address on the left hand side of this cover page. This is the official mailbox to direct all of your questions during the entire FOA process. Please do not contact EERE individuals directly with questions, including myself. All questions received at this mailbox are posted publicly at the Q&A section of the FOA page on EERE Exchange in an anonymous way. The official answers to your questions will typically also be posted within 3 business days. Please be careful not to submit any language that might be business sensitive, proprietary or confidential.

We will have a live Q&A period at the end of the webinar, so please type in your questions as they come up. Again, please be careful not to submit any language that might be business sensitive, proprietary or confidential. We will be posting all Q&As to EERE Exchange after the webinar. There may be questions that require further discussion with

EERE staff and will not be addressed today. If you don't hear your question during the Webinar, please check EERE Exchange in the next few days as the answer will be posted there.

Also, just to be clear, there are no particular advantages or disadvantages to the application evaluation process with respect to participating on the webinar today. Your participation is completely voluntary.

Let's get started!



This slide shows the anticipated schedule for the FOA. The FOA has already been posted, and we are conducting the FOA Informational Webinar now. Please note that there are a few requirements that we will go over in the presentation that are different than in past FOAs, such as Replies to Reviewer Comments – we will cover all requirements for this FOA later in the presentation.

Notice

- All applicants are strongly encouraged to carefully read the Funding Opportunity Announcement ("FOA") **DE-FOA-0001630** and adhere to the stated submission requirements.
- This presentation summarizes the FOA. If there are any inconsistencies between the FOA and this presentation or statements from DOE personnel, the **FOA is the controlling document** and applicants should rely on the FOA language and seek clarification from EERE.
- If you believe there is an inconsistency, please contact Building_America_FOA@ee.doe.gov

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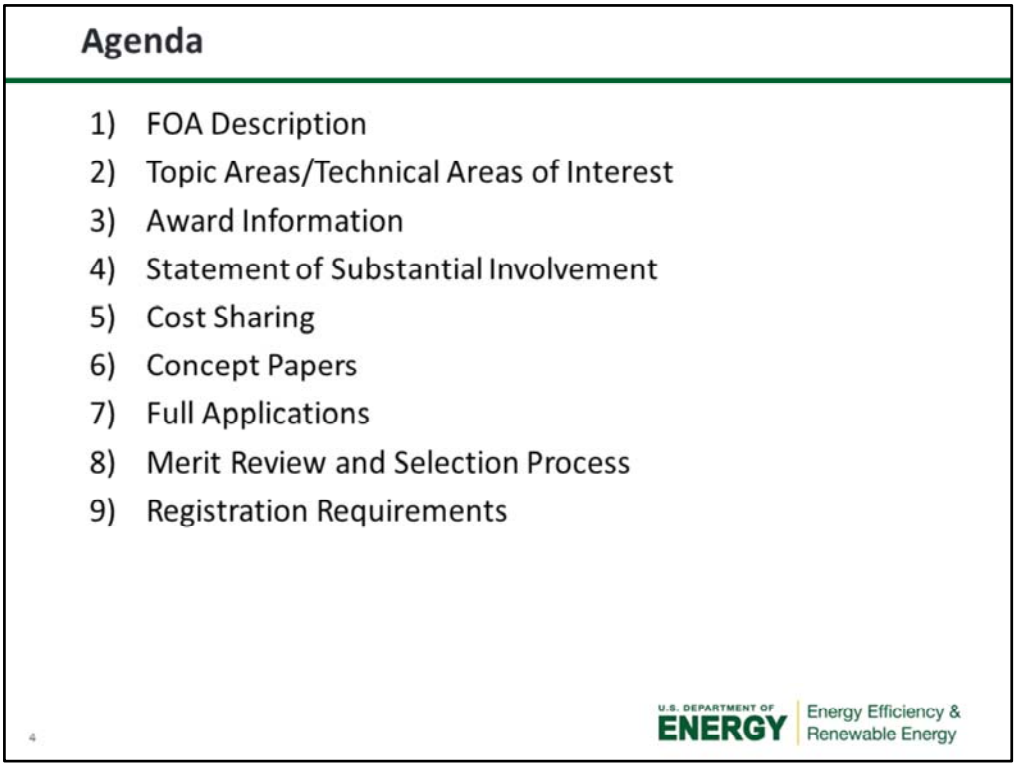
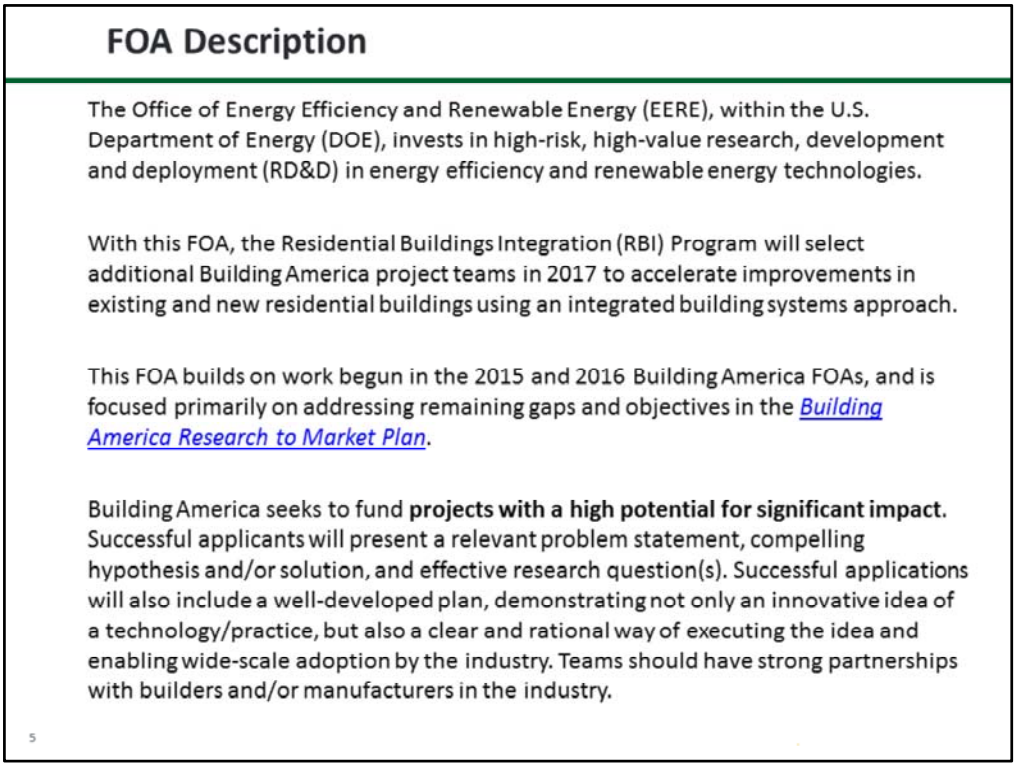
READ SLIDE



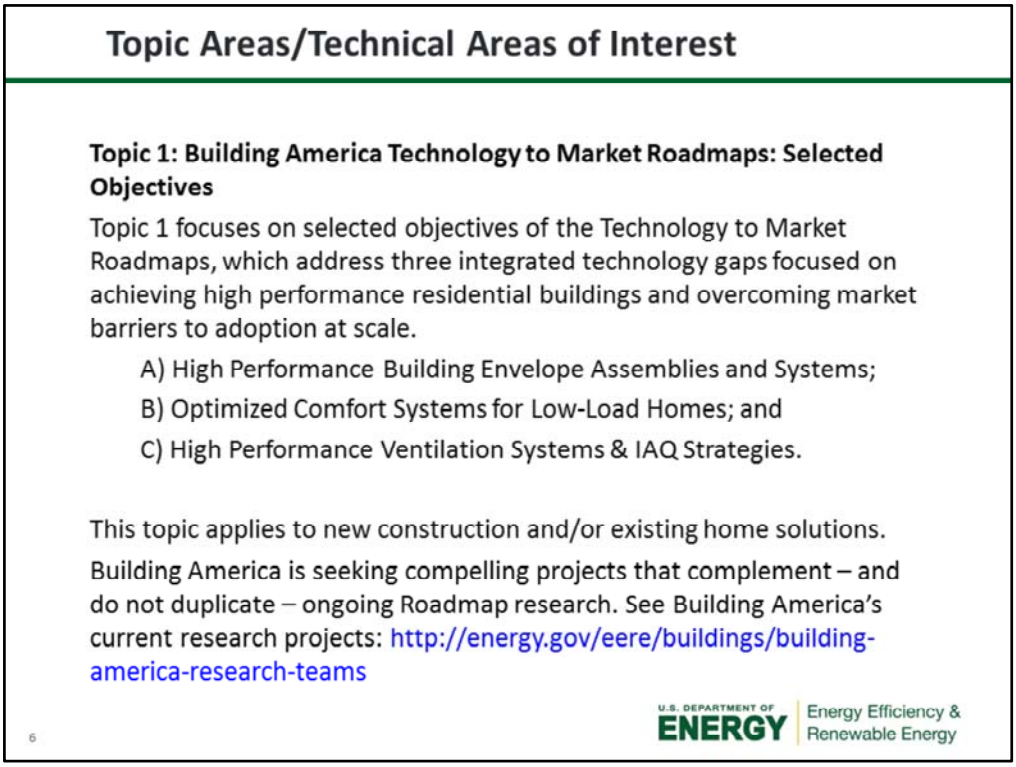
The agenda for this presentation is as follows: READ SLIDE

We encourage you to have a copy of the FOA in front of you for reference as we go through the presentation.



[Insert FOA Description language directly from Section 1.A of the FOA. In order to maintain the integrity of the FOA Process, the language from the FOA cannot be revised for this presentation. Additionally, new information (written or verbal) cannot be added to the presentation.

Note: include all technical information related to the FOA Description in this section of the webinar. It is understood that there will be more than one slide for this section.



Insert FOA Description language directly from Section 1.B of the FOA. In order to maintain the integrity of the FOA Process, the language from the FOA cannot be revised for this presentation. Additionally, new information (written or verbal) cannot be added to the presentation.

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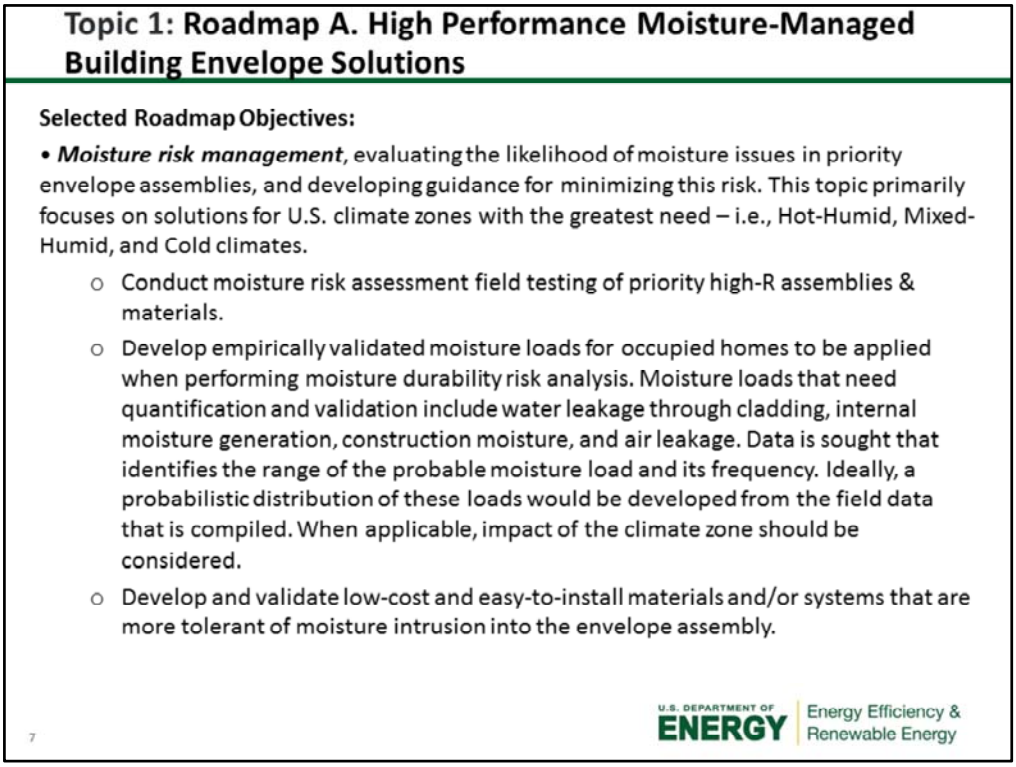
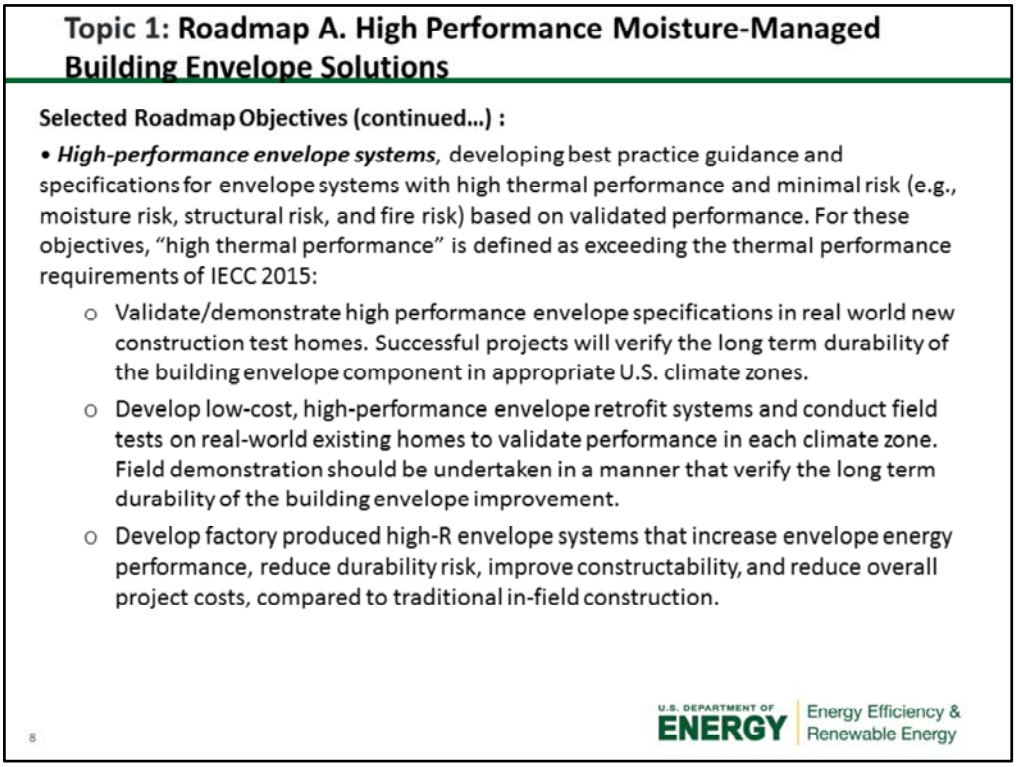


Problem: High-R building envelope assemblies (i.e., foundation, walls, roof) are the biggest potential home energy saving measures - heating and cooling loads are over 40% of home energy use on average and can be much higher. However, high-R building envelope assemblies without assured performance can increase moisture risk. Current solutions are expensive and/or unfamiliar to many builders, contractors and code officials, and some solutions are limited by IRC code barriers (i.e., fire, structural).



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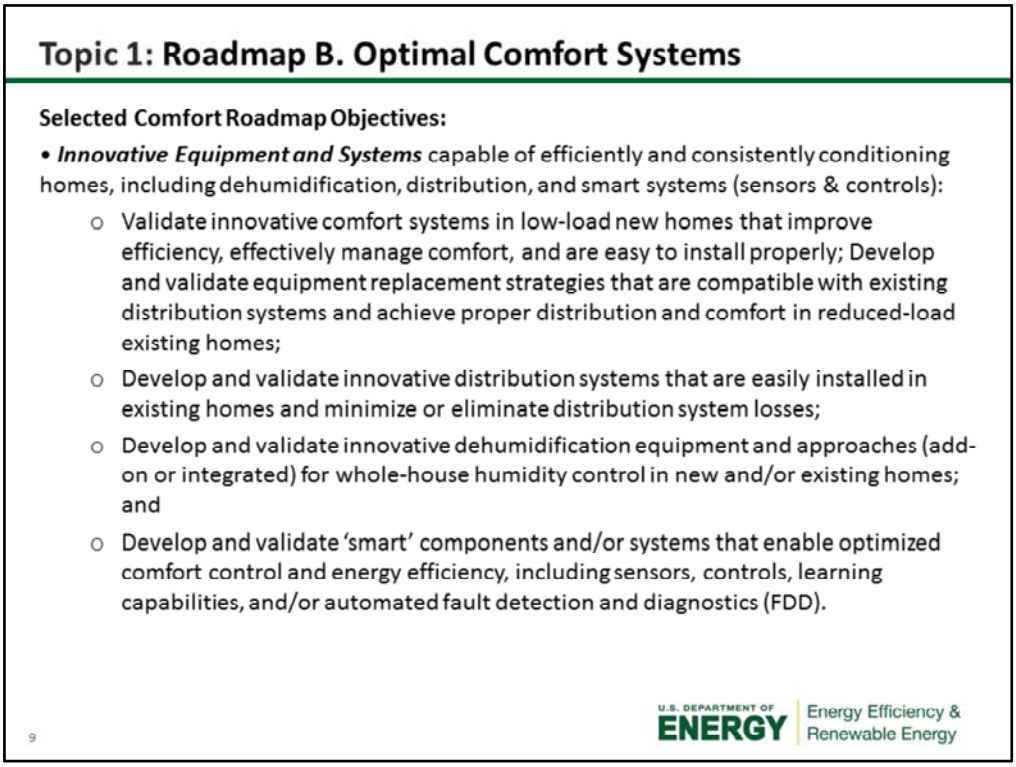
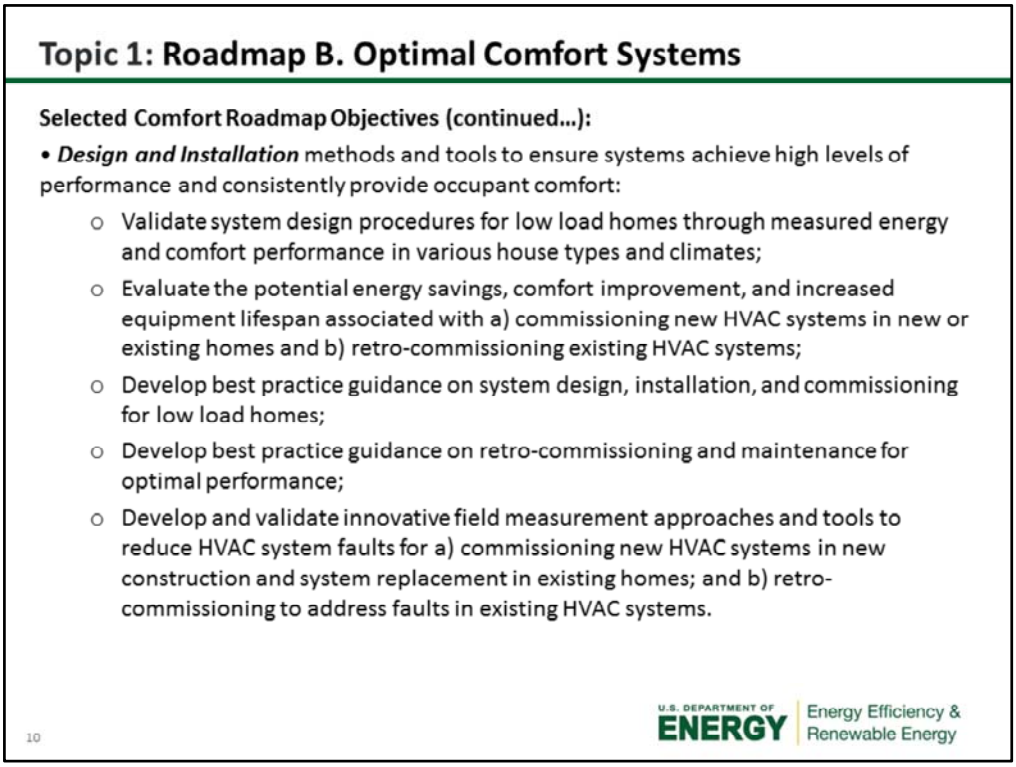


Problem: The performance of HVAC systems, especially distribution system effectiveness and humidity control, is typically suboptimal in American homes, and it is often significantly compromised because of design and/or installation issues. Compromised HVAC system performance can result in energy waste, building durability problems, and occupant discomfort.

These can be critical risks in low-load homes, which often have lower HVAC system airflows and/or less operation time. Current solutions are labor-intensive and/or expensive.

Low load homes can be either high performance new homes or existing homes with reduced loads (compared to the original design) due to improvements in the envelope, distribution system, or other energy upgrades. Furthermore, when home improvements are accomplished incrementally, energy efficient HVAC upgrade strategies are needed that effectively accommodate future improvements to the building envelope (i.e., "low-load ready").



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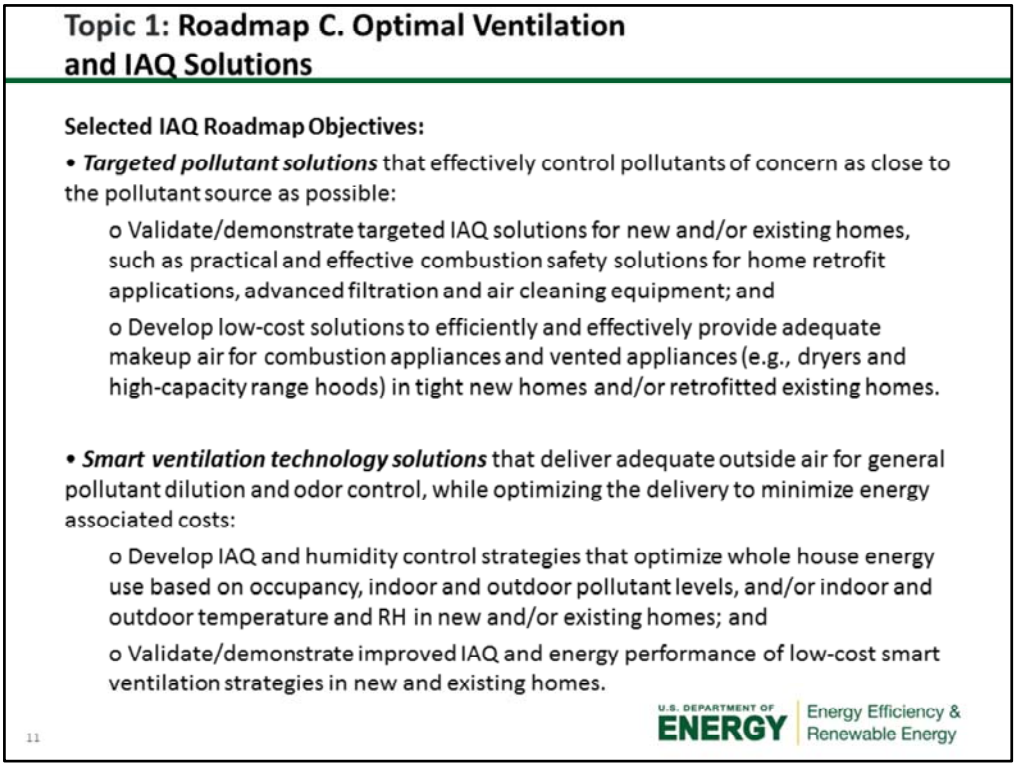
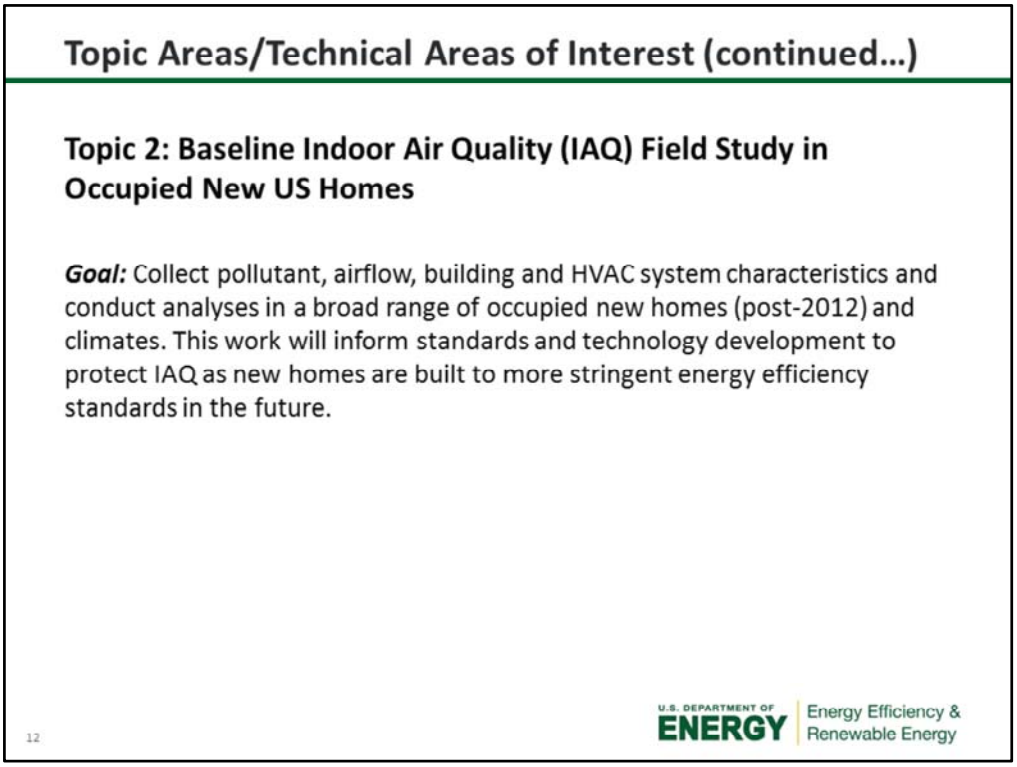


Problem: Basic home ventilation has become standard in some areas, but current solutions are limited (climate, controls, sources, costs) and standards do not help optimize either IAQ or energy performance; significant IAQ risks remain, especially in low-load homes and highly energy efficient building envelope retrofits.



This topic involves a national baseline study of occupied homes built to current energy codes (e.g., IECC 2012/2015), to better characterize the indoor air quality (IAQ) of new U.S. homes. This information will lead to improved guidance, valuable input to future standards and code changes, and will help prioritize future IAQ research.

Topic 2 (continued…)

Specific Objectives:

- Measure time-integrated concentrations and temporal profiles of humidity and established contaminants of concern; monitor the use of ventilation equipment; and track activities that impact air pollutant emissions and removal processes in typical homes in various climate zones.
- Characterize the prevalence, type, and installed performance of mechanical ventilation equipment in new homes; explore regional variations in system designs and performance.
- Investigate associations of indoor humidity and contaminant levels with the presence of control measures including ASHRAE-62.2 compliant mechanical ventilation, envelope air tightness, mechanical system commissioning, and potentially low-emitting materials.

Topic 2 (continued…)

The study will be centrally designed, and all funded projects will use the same, to-be-determined, EERE-approved methodology and protocols for data collection and reporting. The methodology will be similar to the Healthy Efficient New Gas Homes (HENGH) Field Study Protocol (http://eetd.lbl.gov/publications/healthy-efficient-new-gas-homes-hen-0). This study is intended to cover several representative climate zones and geographic regions. The scope of this study will include single-family and multi-family homes, except those with shared ventilation systems among units.

Topic 2 (continued…)

Team Responsibilities will include:

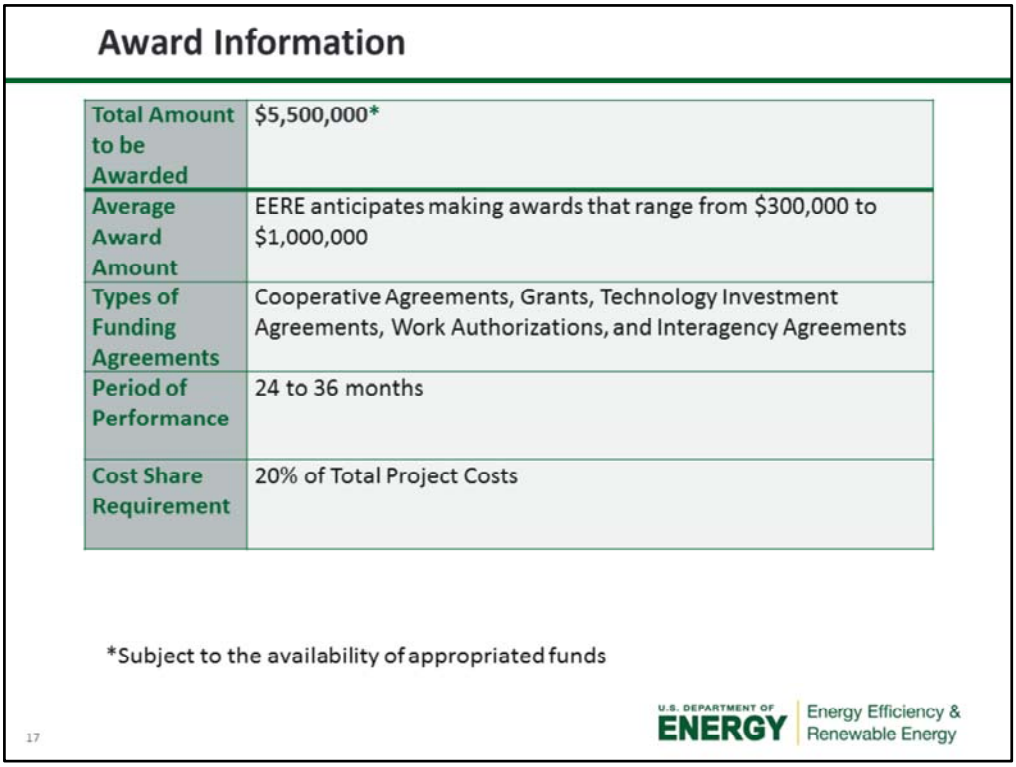
- Recognize that DOE considers this study to be research involving human subjects; as such, study protocols must be reviewed and approved by an institutional review board and research staff must receive appropriate training and follow approved protocols.
- Develop and conduct local/regional recruiting strategy (to be pre-approved) and communications with study participants.
- Complete training for field measurements and sensor package installation.
- Execute centrally designed study protocols in each home, including:
  - Characterization of home and mechanical equipment features that are relevant to IAQ risks and protections.
  - Measure and assess equipment and component performance.
  - Preparation, installation and removal of devices and samplers to measure pollutant concentrations, environmental parameters, and equipment usage.
  - Proper tracking, handling and shipping of air samples to a laboratory for analysis.
- Conduct primary QA/QC review of collected time-resolved data and upload all data to web-based data repository.
- Participate in reporting of local and national results to local stakeholders.

Non-Responsive Applications

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.
- Applications for proposed technologies that are not based on sound scientific principles (e.g., violates the laws of thermodynamics).
- Applications for federal funding of construction or renovation costs.
- Topic 2 applications with field testing of homes in California.

Read Slide



EERE expects to make approximately $5.5 million of Federal funding available for new awards under this FOA subject to the availability of appropriated funds. The average award amount is anticipated to range from $300K to $1 million.

EERE intends to fund mostly cooperative agreements under this FOA, but may also fund Grants, TIAs, Work Authorizations, and Interagency Agreements. Cooperative Agreements include Substantial Involvement, which we will discuss next.

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.

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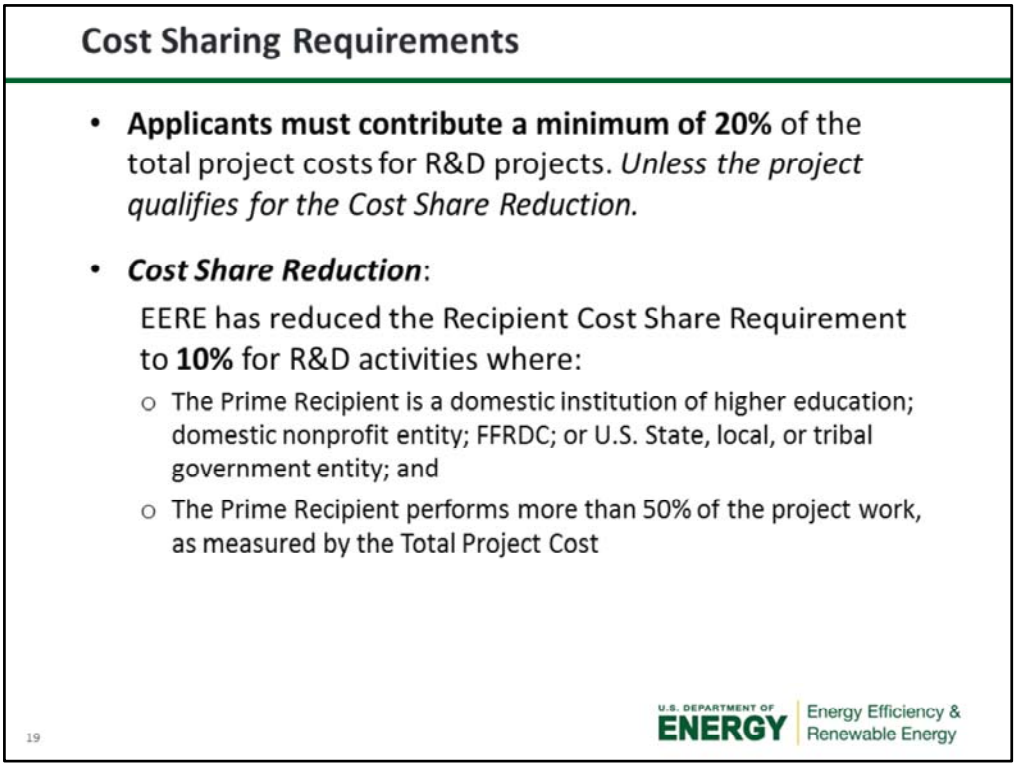
- Under cooperative agreements, there will be what is known as "substantial involvement" between EERE and the Recipient during the performance of the project.

- READ SLIDE



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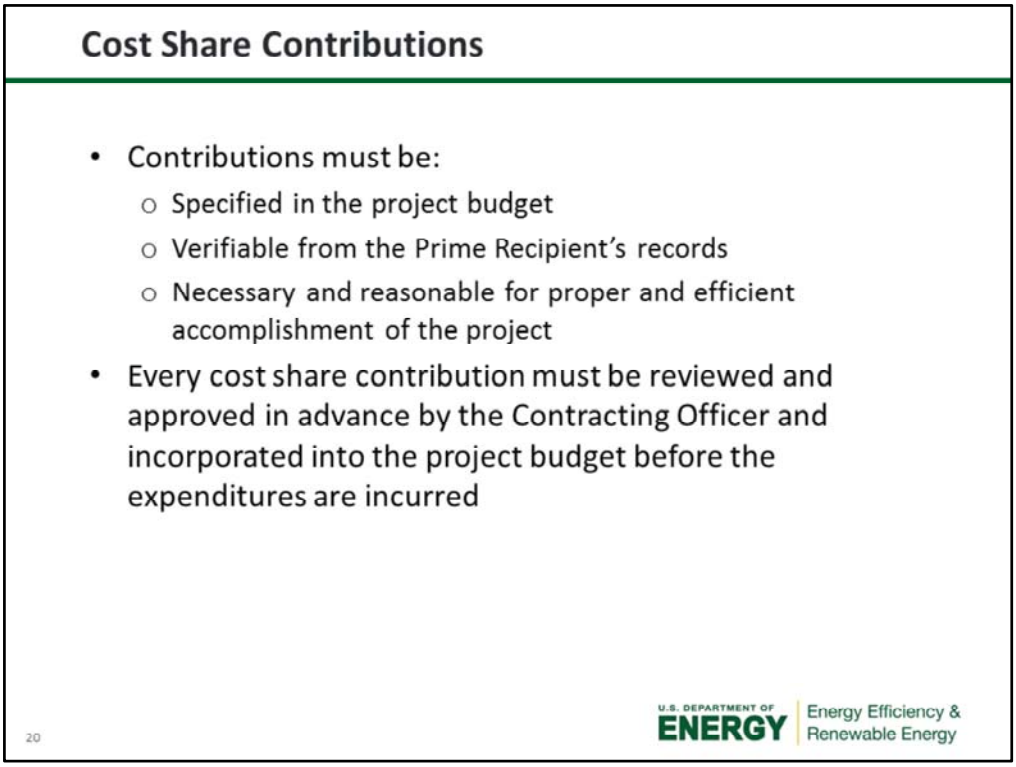
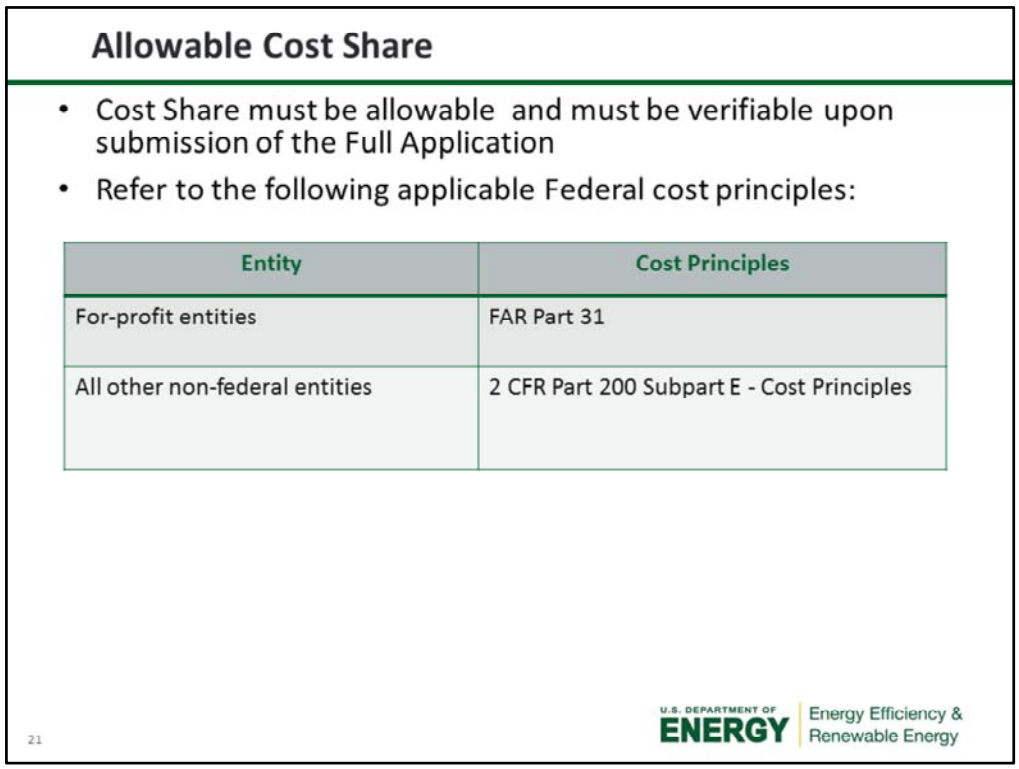
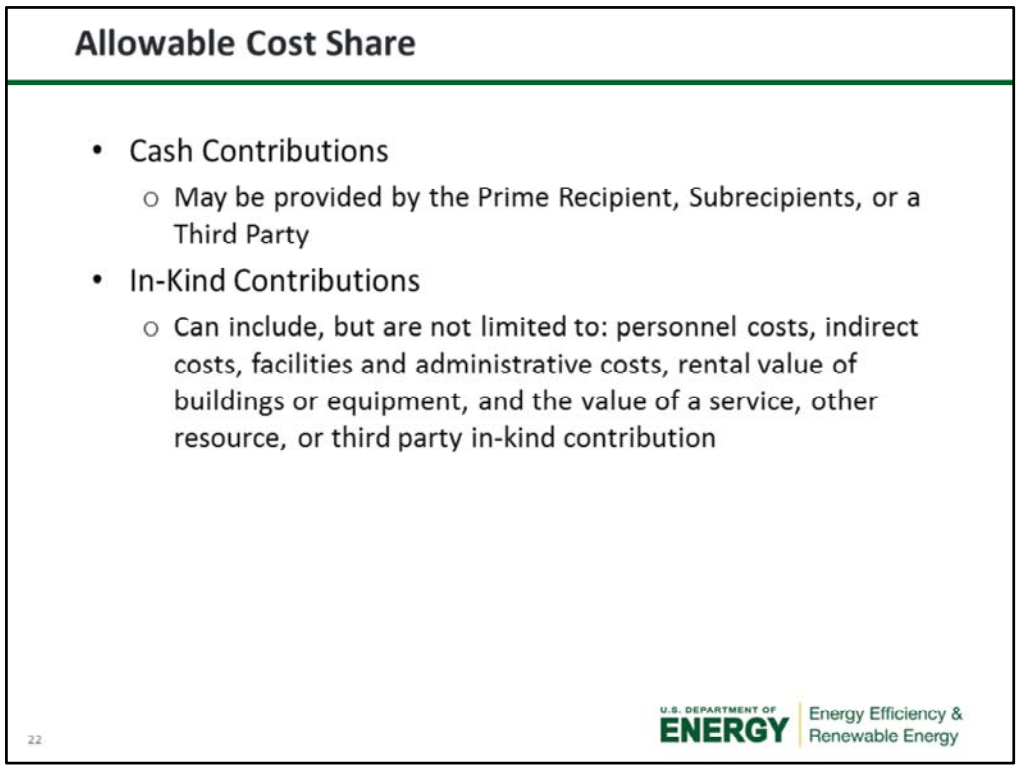
Applicants who believe their project qualifies for the reduced recipient cost share must be able to provide verification that the above requirements are satisfied



The total budget presented in the application must include both Federal (DOE), and Non-Federal (cost share) portions, thereby reflecting TOTAL PROJECT COSTS proposed. All costs must be verifiable from the Recipient's records and be necessary and reasonable for the accomplishment of the project.



Cost Share must be allowable and must be verifiable upon submission of the Full Application. Please refer to this chart for your entity's applicable cost principles. It is imperative that you follow the applicable cost principles when creating your budget for the full application.



Cost share can provided in cash and/or in-kind. It can be provided by the Prime Recipient, subs, or a third party.

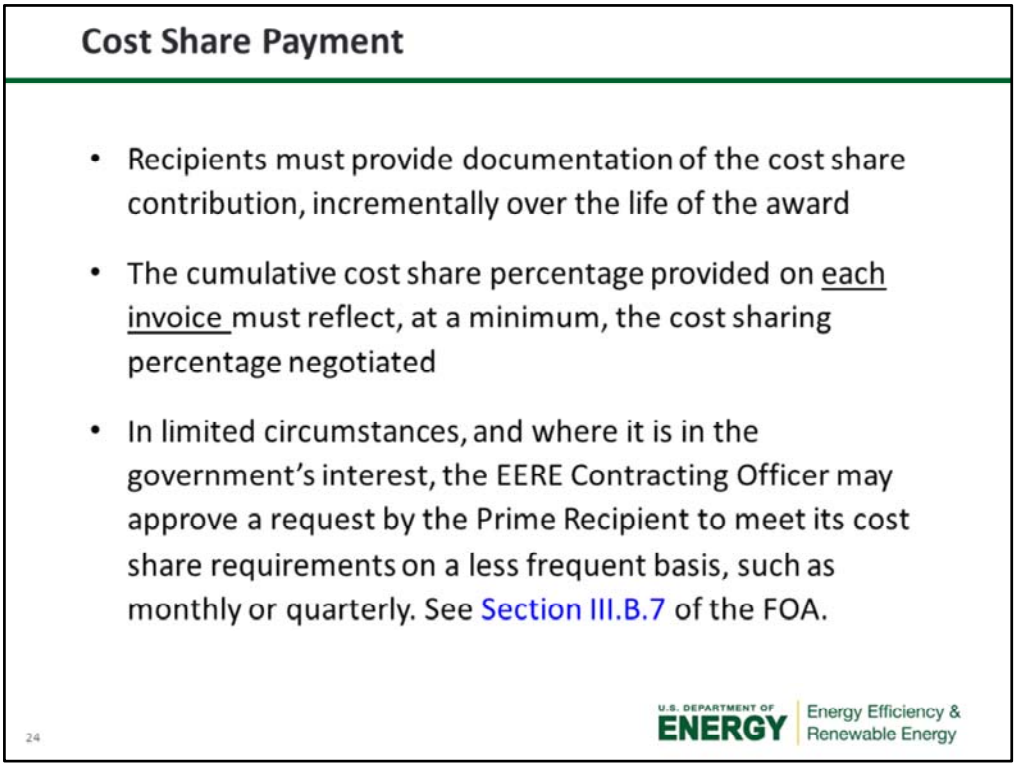
The basic definition of in-kind cost share is the donation of personnel time, equipment, facilities, or other items that an organization will contribute to the project. It can take many forms, each of which must be assigned a dollar value to be included in the budget. Some examples of in-kind cost share are the donation

of work hours, facility use, equipment use.

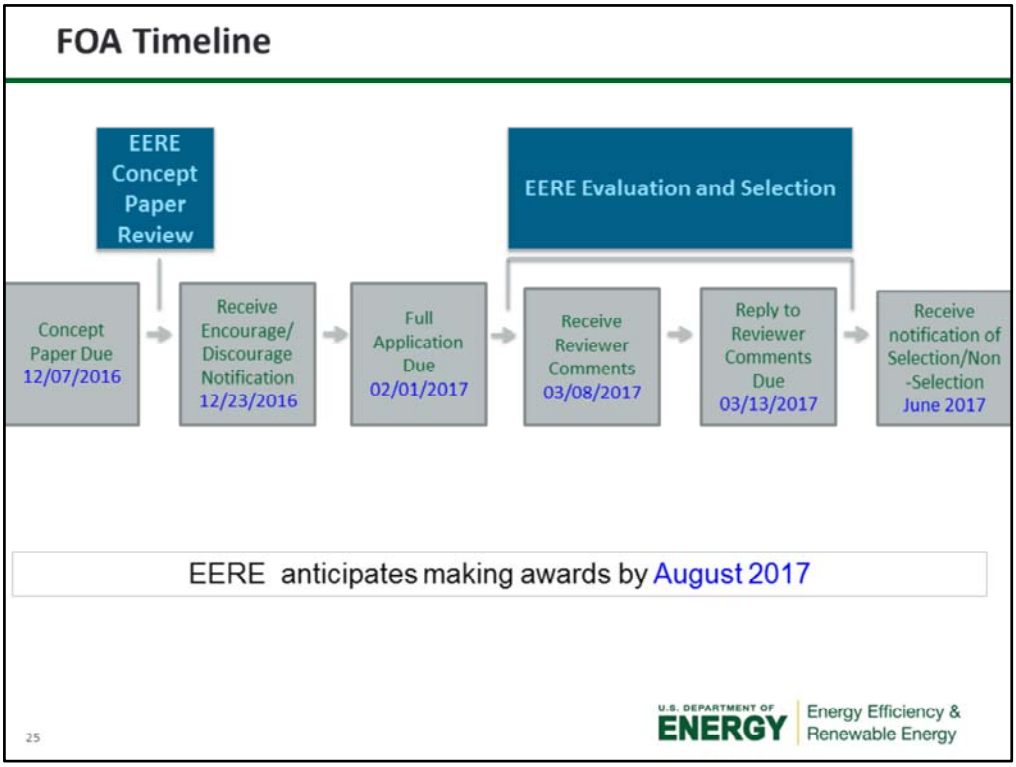
Unallowable Cost Share

- 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

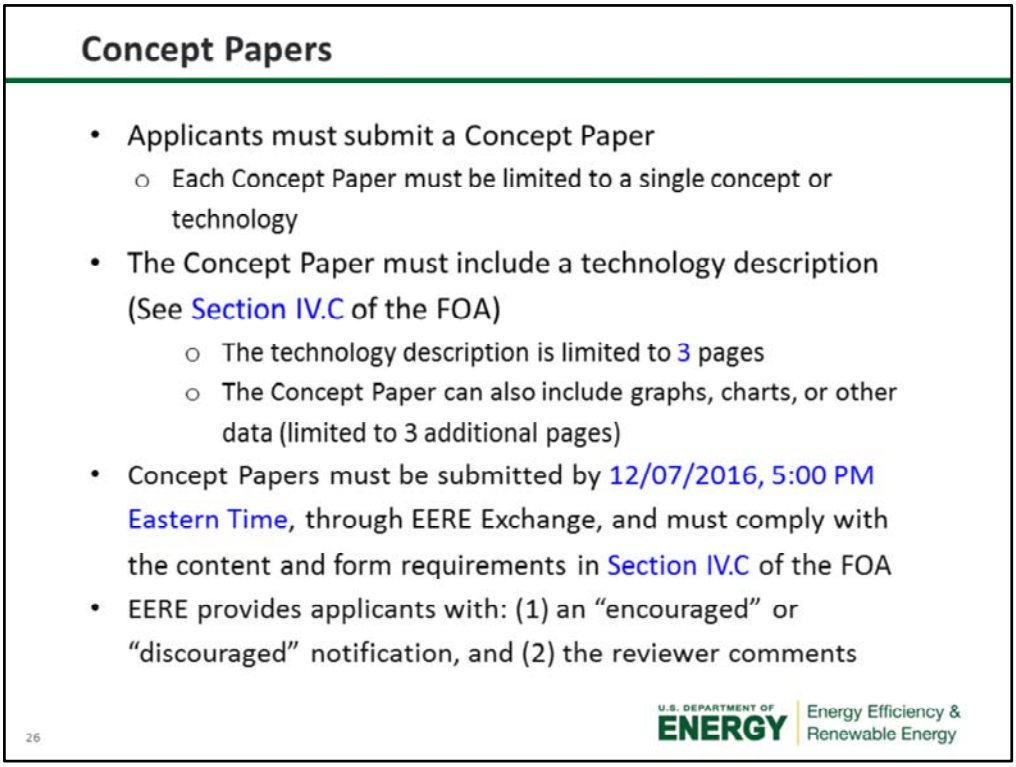
Be aware that there are items that are considered unallowable cost share. If a cost is considered unallowable, it cannot be counted as cost share. This slide provides some examples of cost share that is unallowable.



Cost Share must be provided on an invoice basis, unless a waiver is requested and approved by the DOE Contracting Officer.



EERE's Evaluation and Selection Process is shown in blue here. EERE will review Concept Papers, Replies to Reviewer Comments (which we will cover later in the presentation), and Full Applications. The gray boxes represent the actions that apply to applicants throughout the FOA process.

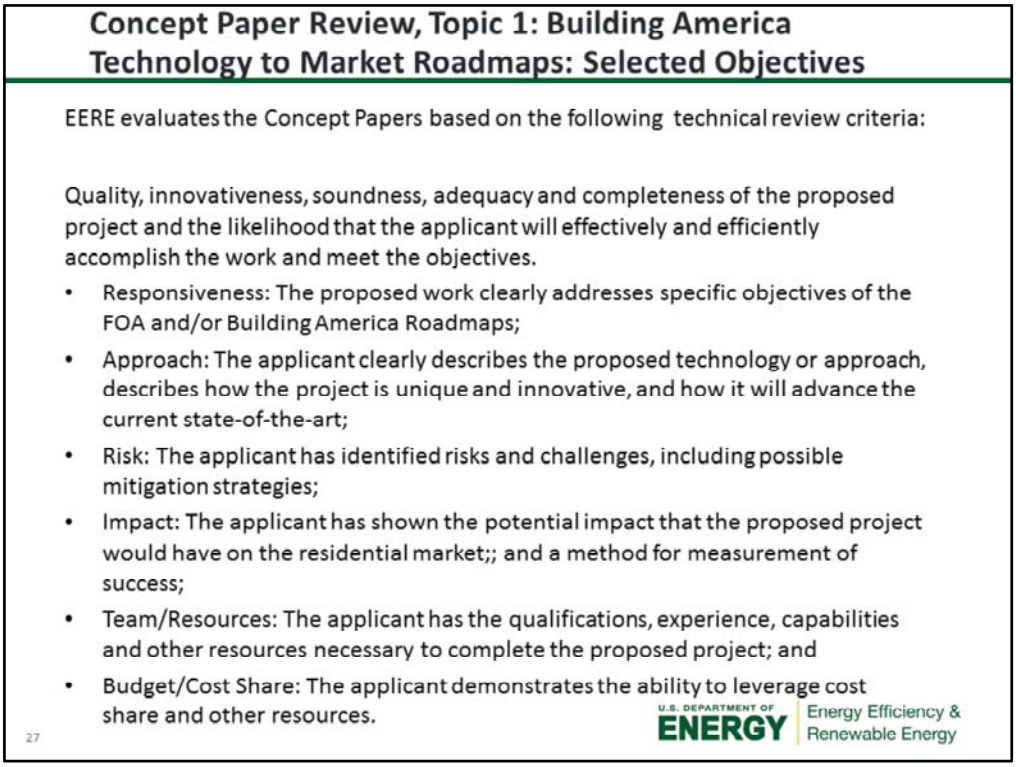


Concept Papers are required for this FOA. Concept Papers are brief descriptions of the proposed project. It allows applicants to submit their ideas with minimal time and expense. EERE will provide feedback on the proposed project so the Applicant can make an informed decision whether to expend additional resources to prepare a full application.

If an applicants fails to submit an eligible Concept Paper, the applicant is not eligible to submit a Full Application.

Concept Papers must be submitted by 12/07/20116, 5:00 PM, through EERE Exchange.

EERE will provide applicants with either an encouraged or discouraged notification. A "discouraged" notification conveys EERE's lack of programmatic interest in the proposed project. An applicant who receives a "discouraged" notification may still submit a Full Application.



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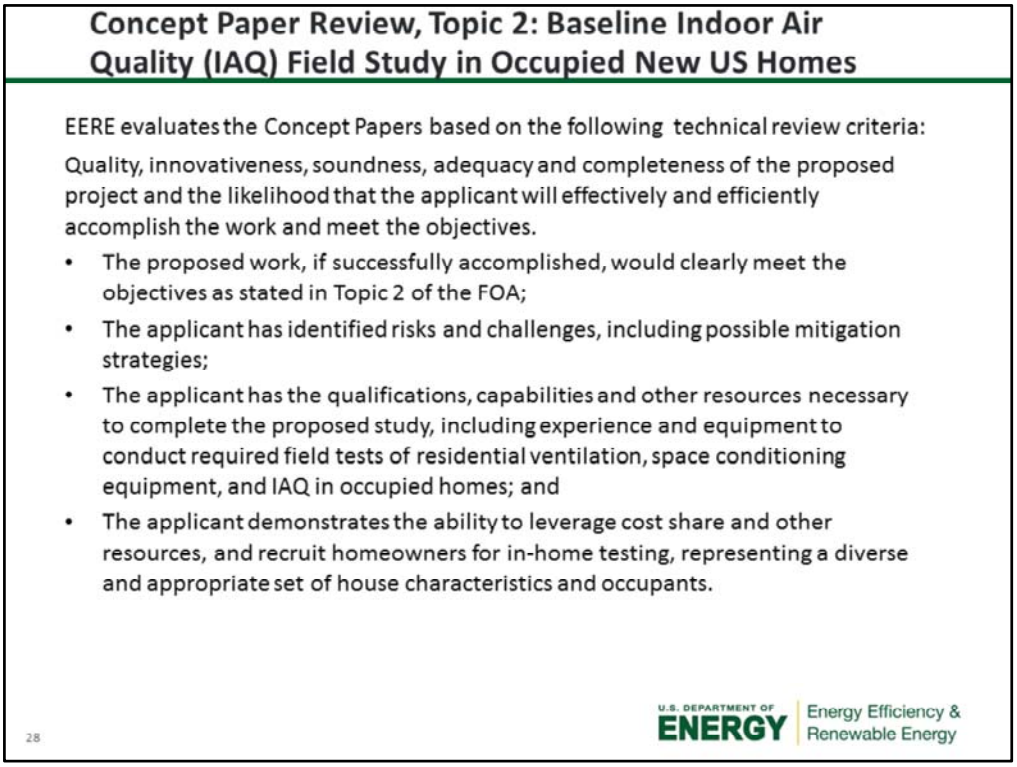
EERE will provide applicants with (1) either an “encouraged” or “discouraged” notification, and (2) the reviewer comments.

Please note that regardless of the date applicants receive the Encourage/Discourage notifications, the submission deadline for the

Full Application remains the date stated on the FOA cover page



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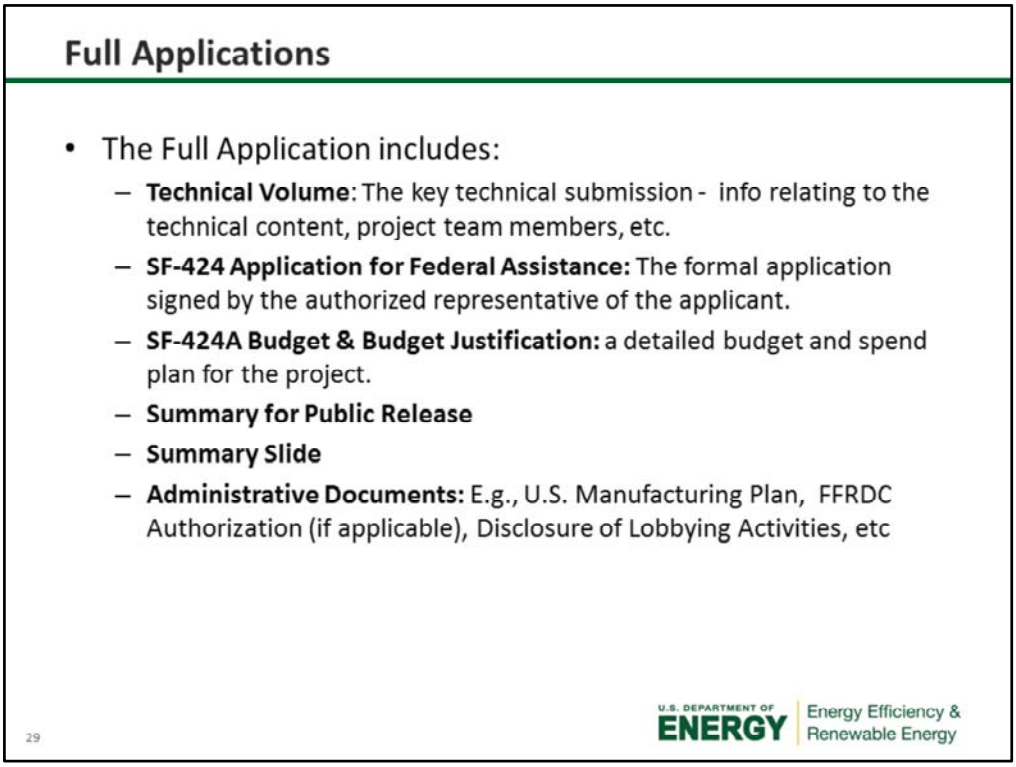

The Full Application includes:

Technical Volume: The key technical submission. Applicants submit info pertaining to the technical content, project team members, etc.

SF-424 Application for Federal Assistance: The formal application signed by the authorized representative of the applicant. Includes cost share amounts and Federal certifications and assurances.

SF-424A Budget & Budget Justification: Budget documents that asks applicants to submit a detailed budget and spend plan for the project.

Summary for Public Release: Applicants must provide a 1 page summary of their technology appropriate for public release.

Summary Slide: Powerpoint slide that provides quick facts about the technology. Slide content requirements are provided in the FOA.

Administrative Documents: E.g., U.S. Manufacturing Plan, FFRDC Authorization (if applicable), Disclosure of Lobbying Activities, etc.

Full Applications: Technical Volume Content, Topic 1

- **Technical Volume: the key technical component of the Full Application**

Content of Technical Volume	TOPIC 1: Suggested % of Technical Volume	Topic 2: Suggested % of Technical Volume
Cover Page	-	-
Project Overview	10%	10%
Technical Description, Innovation and Impact	30%	-
Workplan and Market Transformation Plan	40%	60%
Technical Qualifications and Resources	20%	30%

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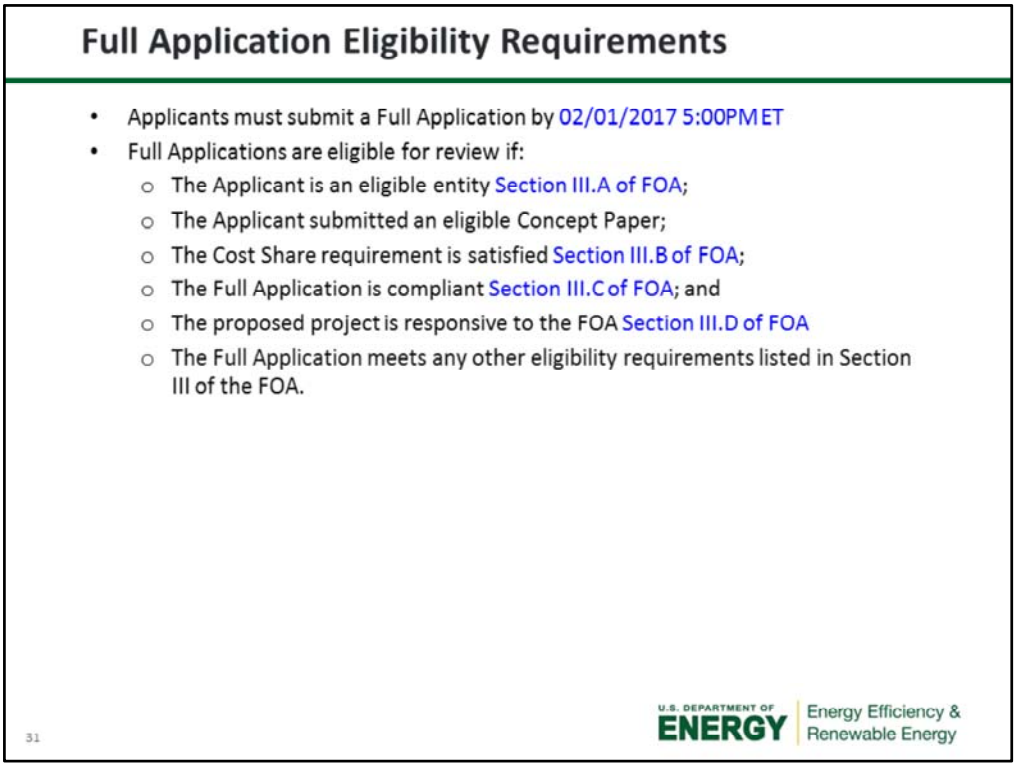
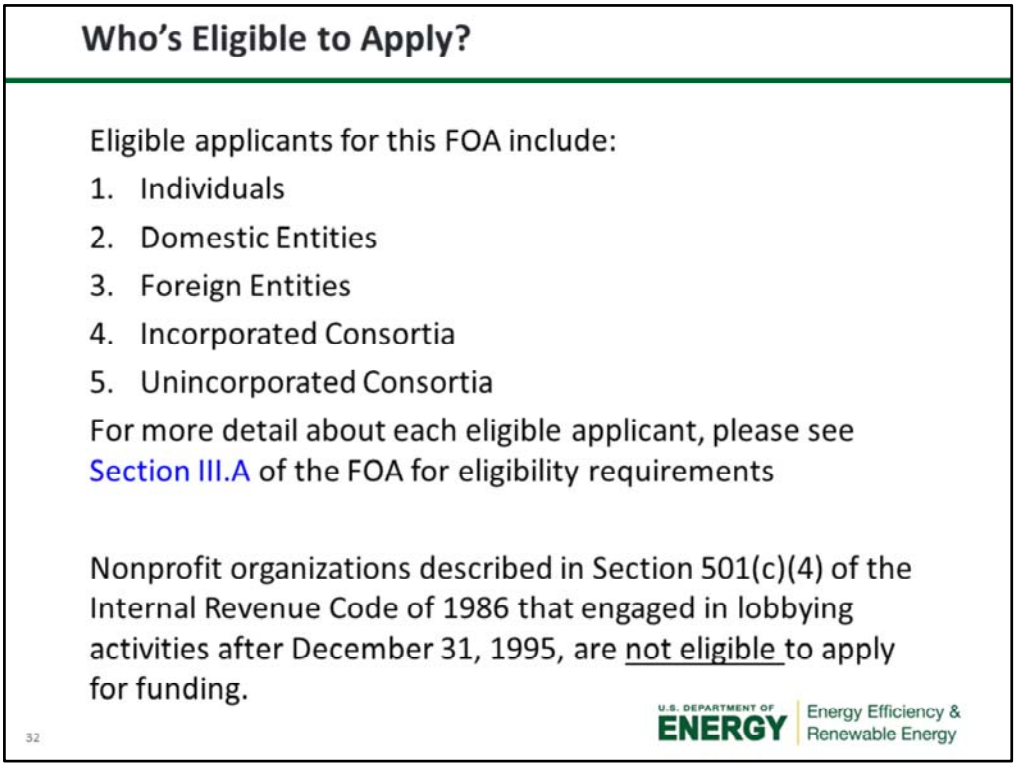
The key technical component of the full application is the Technical Volume, which helps applicants frame the technical information that the application will be evaluated on. The Technical Volume provides information regarding what the project is, how the project tasks will be accomplished, and the project timetable.

The Technical Volume is comprised of a cover page, project overview, technical description, innovation, and impact, workplan, technical qualifications and resources and [FOA Specific Requirements]. Please note that the percentages listed here are suggested and are not mandatory.

- The Cover Page will be a one page document and provides basic information on their project, such as title, topic area, points of contact, etc.
- The Project Overview constitutes approximately 10% of the Technical Volume and provides information on project background, goals, impact of EERE funding
- The Technical Description, Innovation, and Impact section is approximately 30% of the Technical Volume. It provides information on project relevance and outcomes, feasibility, and innovation/impacts. This ultimately provides the justification as to why EERE should fund the project.
- The Workplan is the key element to the Technical Volume, and constitutes approximately 40% of the Technical Volume. It details the proposed milestones and project schedule. If selected for award negotiations, the Workplan serves as the starting point when negotiating the Statement of Project Objectives.
- The Technical Qualifications and Resources section is approximately 20% of the Technical Volume. It provides applicants and opportunity to provide information about the proposed project team and demonstrate how the applicant will facilitate the successful completion of the proposed project.



As we previously pointed out, applicants must submit full applications by 02/01/2017. EERE will conduct an eligibility review, and full application will be deemed eligible if: READ SLIDE



READ SLIDE

Please note that nonprofit organizations described in Section 501(c)(3) of the Internal Revenue Code of 1986 that engaged in lobbying activities after December 31, 1995, are not eligible to apply for funding.

Also, note that all Prime Recipients receiving funding under this FOA must be incorporated (or otherwise formed) under the laws of a State or territory of the United States. If a foreign entity applies for funding as a Prime Recipient, it must designate in the Full Application a subsidiary or affiliate incorporated (or otherwise formed) under the laws of a State or territory of the United States to be the Prime Recipient. The Full Application must state the nature of the corporate relationship between the foreign entity and domestic subsidiary or affiliate.

Who's Eligible to Apply? (Cont…)

DOE/NNSA Federally Funded Research and Development Centers (FFRDCs) and DOE Government-Owned, Government-Operated laboratories (GOGOs) are eligible to apply for funding as a Prime Recipient or Subrecipient, with the following exceptions:

- National Renewable Energy Laboratory (NREL) is not eligible as a Prime Recipient or Subrecipient for either Topic 1 or 2,
- Lawrence Berkeley National Lab (LBNL) is not eligible as a Prime Recipient or Subrecipient for Topic 2 and for Topic 1 projects that address objectives of the Optimal Ventilation & IAQ Solutions Roadmap,
- Oak Ridge National Lab (ORNL) is not eligible as a Prime recipient or Subrecipient for Topic 1 projects that address objectives of the High Performance Moisture Managed Envelope Solutions Roadmap.

Multiple Applications

Applicants may submit more than one application to this FOA, provided that each application describes a unique, scientifically distinct project but each individual application must be submitted to either Topic 1 or Topic 2, not both.

READ SLIDE

Merit Review and Selection Process (Full Applications)

- 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

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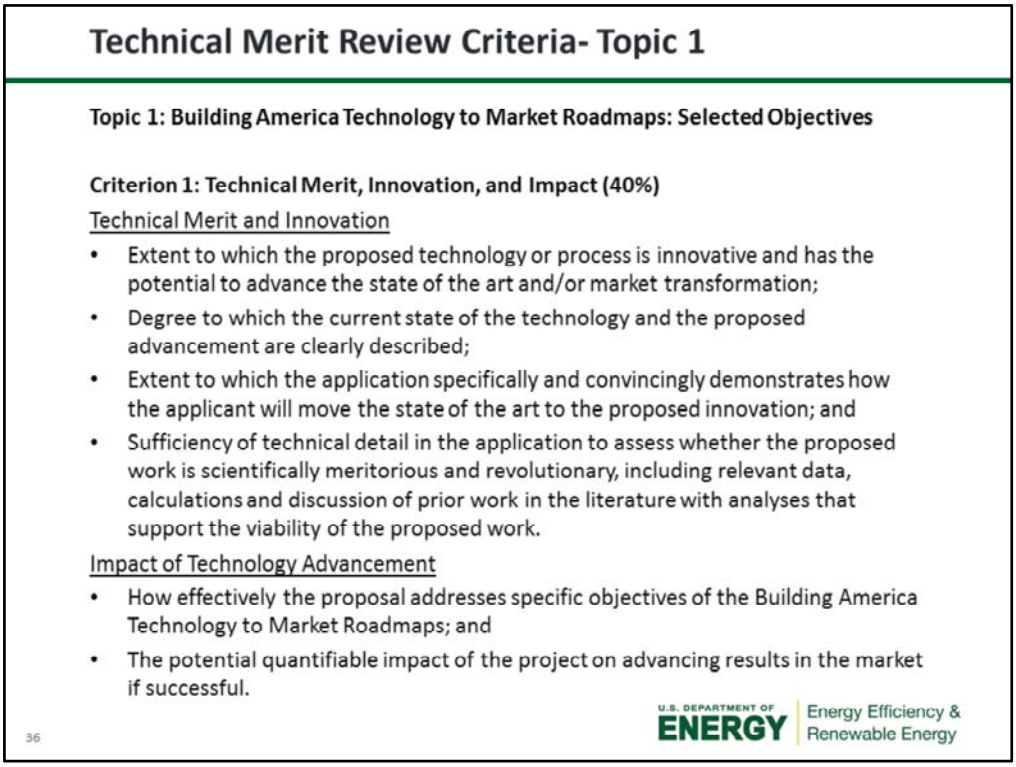

Applications will be evaluated against the following merit review criteria:

READ SLIDE

Technical Merit Review Criteria – Topic 1 Continued

Criterion 2: Project Approach and Market Transformation Plan (40%)

Project Approach, Workplan and SOPO

- Degree to which the approach and critical path have been clearly described and thoughtfully considered; and
- Degree to which the task descriptions are clear, detailed, timely, and reasonable, resulting in a high likelihood that the proposed Workplan and SOPO will succeed in meeting the project goals.

Identification of Technical Risks

- Discussion and demonstrated understanding of the key technical risk areas involved in the proposed work and;
- the quality of the mitigation and response strategies to address the identified risks.

Baseline, Metrics, and Deliverables

- The level of clarity in the definition of the baseline, metrics, and milestones;
- The strength of the quantifiable metrics, milestones, and a mid-point deliverables defined in the application, such that meaningful interim progress will be made; and
- The degree to which defined metrics and milestones reflect the goals of the Building America Roadmaps

Market Transformation Plan

- Identification of target market, competitors, and distribution channels for proposed innovation;
- Understanding of known or perceived barriers to market penetration, including mitigation plan;
- The quality of strategies for overcoming market barriers; and
- Comprehensiveness of market transformation plan including but not limited to product development and/or service plan, commercialization timeline, financing, product marketing, legal/regulatory considerations including intellectual property, infrastructure requirements, data dissemination plan, U.S. manufacturing plan etc., and product distribution.

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Technical Merit Review Criteria – Topic 1 Continued

Criterion 3: Team and Resources (20%)

- The capability of the Principal Investigator(s) and the proposed team to address all aspects of the proposed work with a high probability of success.
- The qualifications, relevant expertise, and time commitment of the individuals on the team;
- The capability of the proposed team to recruit and work with industry stakeholders to facilitate and expedite market transformation, leading to broader adoption of Building America research results;
- The capability of the proposed team to develop technology system and process solutions that can be successfully communicated to and implemented by residential market leaders;
- The sufficiency of the facilities to support the work, if applicable;
- The level of participation by project participants as evidenced by letter(s) of commitment and how well they are integrated into the Workplan;
- Team includes industry stakeholders such as builders and manufacturers whose participation is reflected in the Workplan and cost share; and
- The reasonableness of the budget and spend plan for the proposed project and objectives.

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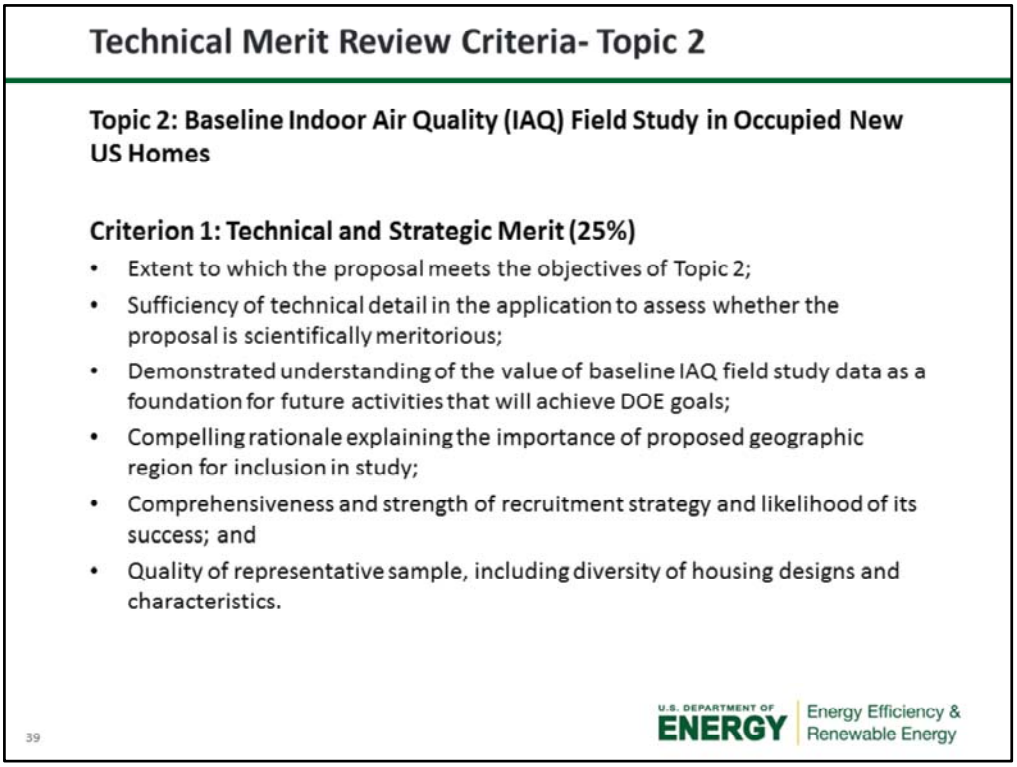

Applications will be evaluated against the following merit review criteria:

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Technical Merit Review Criteria – Topic 2 Continued

Criterion 2: Project Research Plan (25%)

Project Approach, Workplan and SOPO

- Degree to which the approach and critical path have been clearly described and thoughtfully considered;
- Degree to which the task descriptions are clear, detailed, timely, and reasonable, resulting in a high likelihood that the proposed Workplan and SOPO will succeed in meeting the project goals; and
- Degree to which the field research and analytical tasks have been clearly differentiated and articulated.

Identification of Technical Risks

- Discussion and demonstrated understanding of the key technical risk areas involved in the proposed work and;
- the quality of the mitigation and response strategies to address the identified risks.

Baseline, Metrics, and Deliverables

- The level of clarity in the definition of the baseline, metrics, and milestones; and
- Relative to a clearly defined experimental baseline, the strength of the quantifiable metrics, milestones, and mid-point deliverables defined in the application, such that meaningful interim progress will be made.

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Technical Merit Review Criteria – Topic 2 Continued

Criterion 3: Team and Resources (50%)

- The capability of the Principal Investigator(s) and the proposed team to address all aspects of the proposed work with a good chance of success;
- Qualifications, relevant expertise, and time commitment of the individuals on the team;
- The experience and equipment to conduct diagnostic tests of residential ventilation, space conditioning equipment, and IAQ in occupied homes;
- The capability of the proposed team to recruit and partner with industry stakeholders, and to leverage cost share and other resources;
- The capability of the proposed team to develop technology system and process solutions that can be successfully communicated to and implemented by residential market leaders;
- The sufficiency of the facilities to support the work, if applicable;
- The level of participation by project participants as evidenced by letter(s) of commitment and how well they are integrated into the Workplan; and
- Reasonableness of budget and spend plan for proposed project and objectives.

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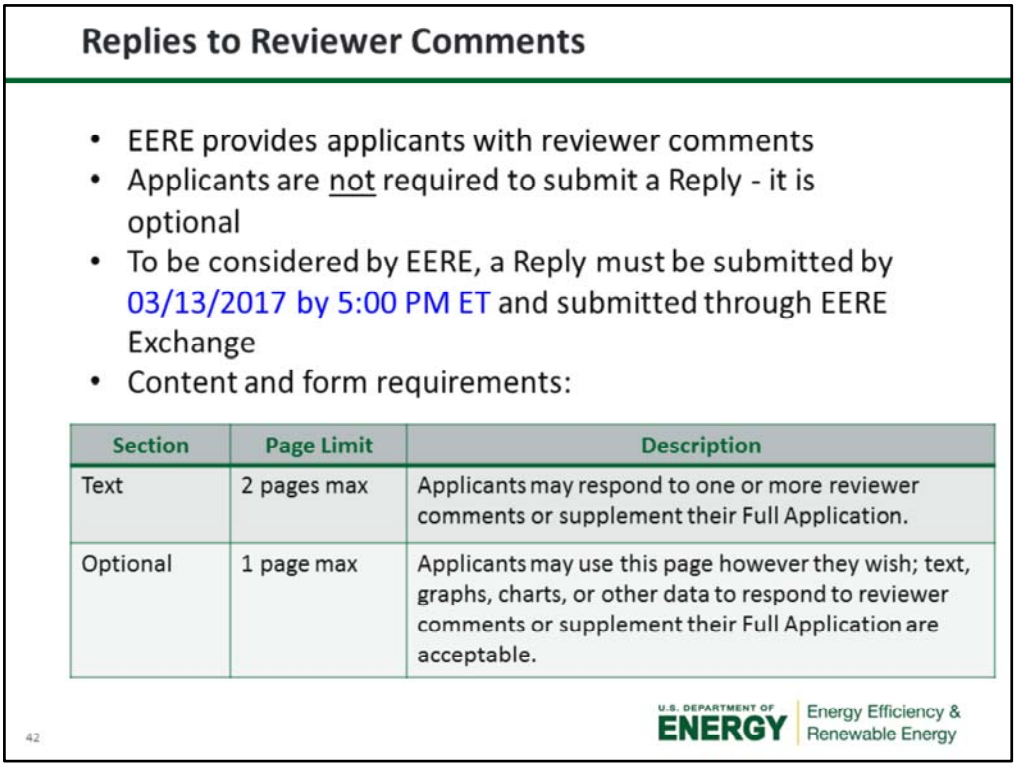

The Full Application are reviewed by experts in the FOA topic area(s). After those experts review the applications, EERE will provide applicants with reviewer comments. Applicants will have a brief opportunity to review the comments and prepare a short Reply to Reviewer Comments responding to comments however they desire. The Reply to Reviewer Comments is due by the date and time provided on this slide. Applicants should anticipate receiving the independent reviewer comments approximately three business days before this due date. The Reply to Reviewer Comments is an optional submission; applicants are not required to submit a Reply to Reviewer Comments.

This a **customer centric** process that provides applicants with a unique opportunity to correct misunderstandings and misinterpretations and to provide additional data that might influence the selection process in their favor. The Replies are considered by the reviewers and the selection official.

Replies to Reviewer Comments must conform to the content and form requirements listed here, including maximum page lengths. If a Reply to Reviewer Comments is more than three pages in length, EERE will review only the first three pages and disregard any additional pages.

Please see Sections IV.F. and V.A.3 for additional information regarding Replies to Reviewer Comments

Selection Factors

The Selection Official may consider the merit review recommendation, program policy factors, and the amount of funds available in arriving at selections for this FOA

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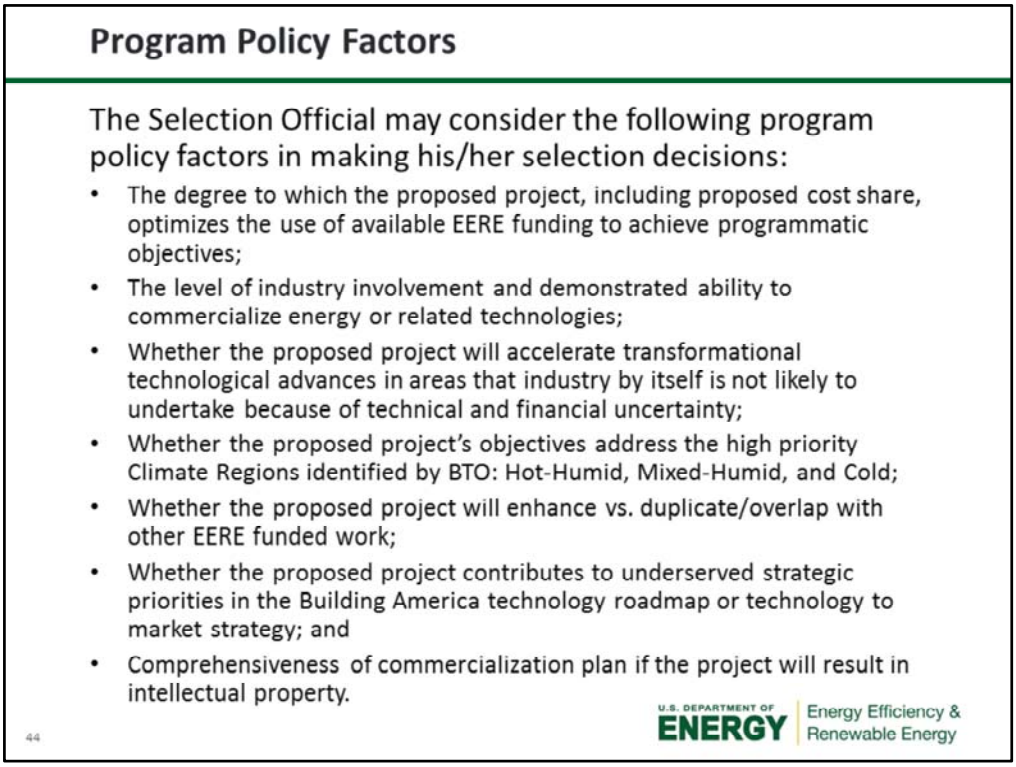

After the Merit Review process, the Selection Official may consider program policy factors to come to a final selection decision.

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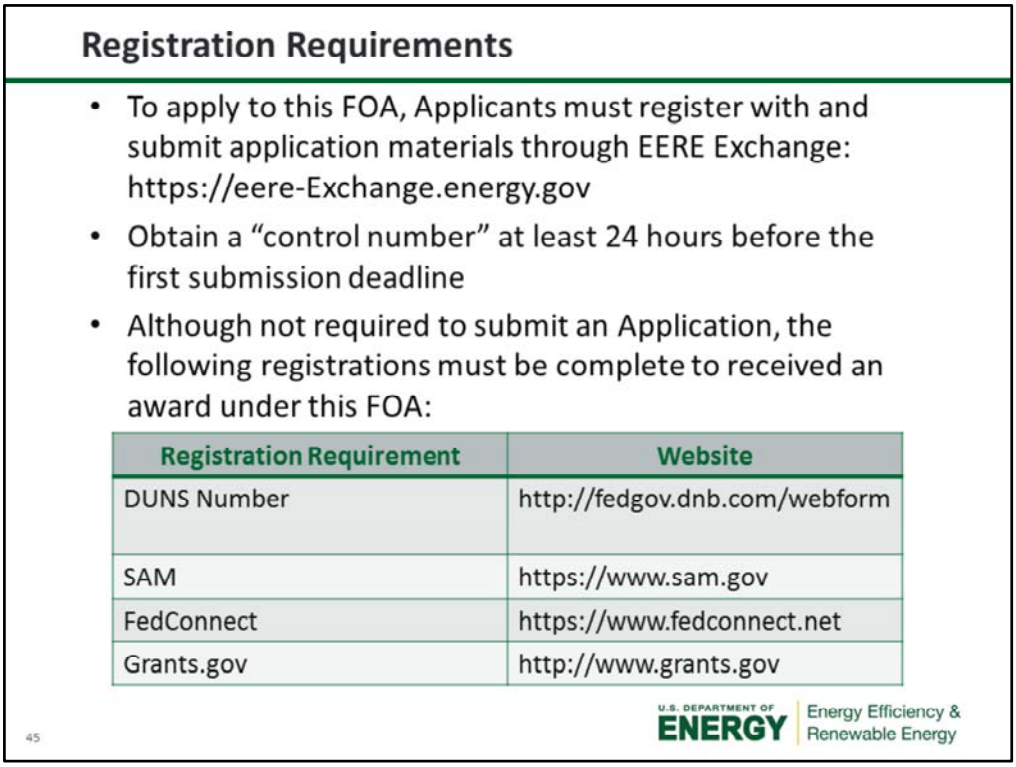


There are several one-time actions before submitting an application in response to this FOA, and it is vital that applicants address these items as soon as possible. Some may take several weeks, and failure to complete them could interfere with an applicant's ability to apply to this FOA, or to meet the negotiation deadlines and receive an award if the application is selected.

DUNS Number

Obtain a Dun and Bradstreet Data Universal Numbering System (DUNS) number.

S*ystem for Award Management*

Register with the System for Award Management (SAM). 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.

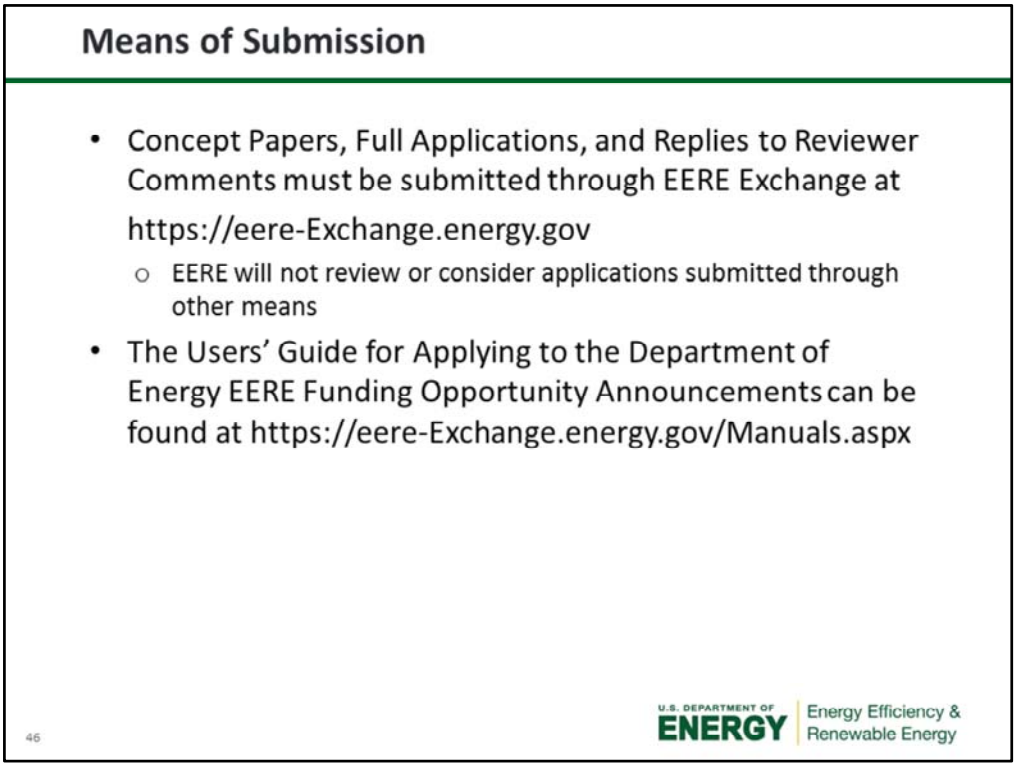
Fedconnect

Register in FedConnect. 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 the FedConnect site.

Grants.gov

Register in Grants.gov to receive automatic updates when Amendments to this FOA are posted. However, please note that [Delete if Letters of Intent are not applicable] Letters of Intent, Concept Papers, and Full Applications will not be accepted through Grants.gov.



All required submissions must come through EERE Exchange. EERE will not review or consider applications submitted through any other means.

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

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Applicant Points-of-Contact

- Applicants must designate primary and backup points-of-contact in EERE Exchange with whom EERE will communicate to conduct award negotiations
- It is imperative that the Applicant/Selectee be responsive during award negotiations and meet negotiation deadlines
  - Failure to do so may result in cancellation of further award negotiations and rescission of the Selection

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Questions

- Questions about this FOA? Email Building_America_FOA@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.
  - Include FOA name and number in subject line
- All questions asked during this presentation will be posted on EERE Exchange

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