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Office of
ENERGY EFFICIENCY &
RENEWABLE ENERGY

Building Technologies Office

May 3, 2019

Energy Department Announces \$33.5 Million for Energy Efficient, Advanced Building Construction Technologies & Practices

OVERVIEW

Today, the U.S. Department of Energy (DOE) announced up to \$33.5 million for early-stage research and development of advanced building construction techniques to reduce energy bills.

Together, America's 118 million homes and 5.6 million commercial buildings account for approximately 40% of the nation's total energy demand and use 75% of its electricity. Furthermore, about half of America's [homes](#) and [commercial buildings](#) were built before 1980 when most of today's more efficient products and building construction practices did not yet exist.

The Advanced Building Construction with Energy-Efficient Technologies & Practices (ABC) Funding Opportunity Announcement (FOA) aims to develop deep energy retrofit and new construction technologies that holistically tackle a combination of envelope, heating, cooling, water heating, and ventilation issues.

The FOA addresses three areas:

- Topic 1 – Integrated Building Retrofits: Focuses on integrating technologies to achieve more affordable, deep energy savings in existing buildings (e.g. light and durable highly insulated panels, combined heating and cooling, and hot water systems). Up to 75% energy reduction is sought for major building loads such as space heating and cooling, water heating, and ventilation.
- Topic 2 – New Construction Technologies: Focuses on building design, construction, and installation (e.g., off-site manufacturing, robotics, digitization, automation, and improved modeling) to improve affordability, scalability, and performance of energy efficient building systems and methods. The topic seeks solutions that lead to construction of homes and buildings that are 50% more efficient compared to current code. This topic has a special emphasis to make mobile homes significantly more efficient while keeping the same initial cost.

- Topic 3 – Advanced Technology Integration: Focuses on field validation of new innovative technologies and building practices, workforce training, and service delivery methods suited to regional and/or local needs, including those related to building stock, regional climates and grid characteristics.

Concept papers are due on June 10, 2019 by 5:00 p.m. ET to be eligible to submit a full application. For more information on this FOA please visit [HERE](#). Questions regarding the content of this FOA must be submitted to ABC2019FOA@ee.doe.gov. For more information on the Office of Energy Efficiency and Renewable Energy's Building Technologies Office visit the website [HERE](#).

TEAMING PARTNER LIST

BTO is compiling a Teaming Partner List to facilitate the widest possible participation for this FOA. The list allows organizations who may wish to participate in an application, but may not wish to apply as the Prime applicant to the FOA or are seeking complementary partnering entities, to express their interest to potential applicants and to explore potential partnerships. More information about the Teaming Partner List can be found on Page 25 of the FOA.

SUBMISSION DEADLINES

- Submission Deadline for Concept Papers: June 10, 2019 by 5:00 p.m. ET
- Submission Deadline for Full Applications: August 12, 2019 by 5:00 p.m. ET

INFORMATIONAL WEBINAR

Monday May 13, 2019 at 1:30 p.m. ET

Register: <https://doe.webex.com/doe/onstage/g.php?MTID=e0e763aac7daf6b2464e74ca4aebca3a3>

MORE INFORMATION

More information, submittal requirements, and instructions for applying to this funding opportunity announcement ([DE-FOA-0002099](#)) can be found on the EERE Funding Opportunity Exchange website. To be eligible for consideration, a concept paper must be submitted no later than June 10, 2019 at 5:00 p.m. ET.

Questions must be submitted no later than 3 business days prior to the application due date and time. Please note, feedback on individual concepts will not be provided through the FOA Q&A webpage.