Notice of Intent No. DE-FOA-0002840

Notice of Intent to Issue
Funding Opportunity Announcement No. DE-FOA-0002828

The U.S. Department of Energy (DOE) Office of Energy Efficiency and Renewable Energy (EERE) intends to issue, on behalf of the Wind Energy Technologies Office (WETO), a Funding Opportunity Announcement (FOA) entitled "Bipartisan Infrastructure Law FOA to Address Key Deployment Challenges for Offshore, Land-Based, and Distributed Wind."

The activities under this FOA support Bipartisan Infrastructure Law section 41007(b)(1): Wind Energy and the broader government-wide approach to enable the innovations needed to advance U.S. wind systems, reduce the cost of electricity, and accelerate the deployment of wind power, maximize the benefits of the clean energy transition as the nation works to curb the climate crisis, empower workers, and advance environmental justice.

It is anticipated that the FOA may include the following Topic Areas:

Topic Area Number	Topic Area Title	Anticipated Number of Awards	Anticipated Minimum Award Size for Any One Individual Award (Fed Share)	Anticipated Maximum Award Size for Any One Individual Award (Fed Share)	Approximate Total Federal Funding Available for All Awards
1	High-Voltage Direct Current (HVDC) for Offshore Wind	Subtopic 1a: 1-2 Subtopic 1b: 3-4 Subtopic 1c: 1	Subtopic 1a: $1.0M Subtopic 1b: $1.0M Subtopic 1c: $500k	Subtopic 1a: $2.0M Subtopic 1b: $3.0M Subtopic 1c: $750K	$9.7M
2	Advancing Deployment of Distributed (ADD) Wind	2-4	$1.0M	$3.0M	$3.3M
3	Wind Energy Social Science Research	Subtopic 3a: 2-4 Subtopic 3b: 2-4	Subtopic 3a: $1.0M Subtopic 3b: $200k	Subtopic 3a: $2.5M Subtopic 3b: $500k	$6.9M
4	Bat Deterrent Technology Development	3-8	$750k	$2.75M	$8.0M

Topic Area 1: High-Voltage Direct Current (HVDC) for Offshore Wind

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With HVDC being identified as an enabler for offshore wind transmission, in May 2022, WETO held a workshop jointly with DOE's Office of Electricity to further refine the research and development needs of HVDC technologies. The workshop convened more than 100 industry participants from equipment manufacturers, developers, consultants, utilities/system operators, academia, and national labs, and discussed grid system architecture, HVDC station architecture and equipment, and tools, standards, and workforce needs. While a long-term strategic research and development roadmap is currently under development as the result of the workshop, this FOA Topic Area will address near-term needs for offshore HVDC technologies in the following areas:

- **Subtopic 1a: HVDC Test Systems and Standards Development for Offshore Wind**
  This subtopic will improve understanding of gaps in U.S. HVDC standards and begin addressing those gaps by developing test systems and proposing revised standards, especially to incorporate transmission for offshore wind.

- **Subtopic 1b: Multi-terminal HVDC Controls and Functional Requirements**
  This subtopic will address multi-terminal HVDC deployment barriers by developing and validating innovative controls that enable reliable operation of a multi-terminal HVDC grid. It will also seek to establish basic functional requirements of HVDC converters at the alternating current (AC) interfaces and DC interfaces to allow interoperability with the existing AC or DC grid.

- **Subtopic 1c: HVDC Curriculum Development for Education and Workforce Training**
  This subtopic will identify and address the gaps in education and workforce training to enhance the deployment of HVDC transmission to support offshore wind in the United States.

EERE envisions awarding multiple financial assistance awards in the form of Cooperative Agreements under Topic Area 1. The estimated period of performance for each award will be approximately 2-3 years in duration. The non-federal cost share requirement for Subtopics 1a and 1b is anticipated to be 20% of total project costs, while the non-federal cost share requirement for Subtopic 1c is anticipated to be 0%.

Topic Area 2: Advancing Deployment of Distributed (ADD) Wind

A variety of place- and community-based clean energy solutions will be essential to equitably and justly achieving 100% clean electricity by 2035 and a net-zero economy by 2050. Wind energy technology deployed as a distributed energy resource – known as distributed wind – is a place-based solution that supports the administration's equity and clean energy objectives.

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However, local zoning and permitting are significant challenges to distributed wind deployment. In some places, there is no established permitting process for distributed wind. In others, unnecessarily burdensome requirements and paperwork associated with project permitting are discouraging distributed wind developers from moving to areas with quality wind resources and otherwise favorable economic conditions. To increase access to distributed wind, reduce costs, and accelerate the deployment of community-based clean energy, the ADD Wind Topic Area seeks to support innovative approaches for zoning and permitting distributed wind projects that leverage the successes that have been achieved in permit reform for distributed solar photovoltaics and that work for communities and industry alike.

EERE envisions awarding multiple financial assistance awards in the form of Cooperative Agreements under Topic Area 2. The estimated period of performance for each award will be approximately 2-3 years in duration. The non-federal cost share requirement for Topic Area 2 is anticipated to be 20% of total project costs.

Topic Area 3: Offshore Wind Energy Social Science Research

The Biden Administration aims to deploy 30 gigawatts of offshore wind energy by 2030 to promote the climate and economic benefits of offshore wind energy. As part of the broader clean energy transition, the Administration has also committed to delivering environmental quality, union jobs, health, socioeconomic, and other benefits of clean energy throughout all communities, including historically disadvantaged communities. This Topic Area will expand foundational knowledge and social science research related to the effects of offshore wind energy development and supply chain expansion on affected communities.

- **Subtopic 3a: Community Impacts of Offshore Wind Development**
  This subtopic will characterize impacts of offshore wind development on affected communities, with particular interest in interactions between offshore wind and local economies.

- **Subtopic 3b: Applied Research on Community Participation in Offshore Wind**
  This subtopic supports collaborative, community-driven research and resource development to more effectively connect affected communities with the offshore wind development process.

EERE envisions awarding multiple financial assistance awards in the form of Cooperative Agreements under Topic Area 3. The estimated period of performance for each award will be approximately 3-5 years in duration. The non-federal cost share requirement for Subtopic 3a is anticipated to be 20% of total project costs, while the non-federal cost share requirement for Subtopic 3b is anticipated to be 0%.

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Topic Area 4: Bat Deterrent Technology Development

As deployment of wind energy increases across the country, wind energy developers and operators are likely to face increasing siting and environmental compliance challenges. Bat impacts represent a significant environmental concern for land-based wind deployment and operation. Emerging bat deterrent technologies are a promising alternative to curtailment to reduce fatalities at wind facilities.

This Topic Area will advance bat deterrent technologies through targeted behavioral research, field testing, and hardware development. Specifically, this FOA Topic Area will seek applications that lead to improvements in the species-specific effectiveness of bat deterrent technologies.

EERE envisions awarding multiple financial assistance awards in the form of Cooperative Agreements under Topic Area 4. The estimated period of performance for each award will be approximately 3-8 years in duration. The non-federal cost share requirement for Topic Area 4 is anticipated to be 20% of total project costs.

This Notice is issued so that interested parties are aware of the EERE's intention to issue this FOA in the near term. All 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 November 2022 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 apply to any open EERE FOAs that are currently in EERE eXCHANGE.

  In July, 2022, eXCHANGE was updated to integrate with Login.gov. As of September 29, 2022, potential applicants will be required to have a Login.gov account to access EERE eXCHANGE. As part of the eXCHANGE registration process, new users will be directed to create an account in Login.gov. Please note that the email address associated with Login.gov must match the email address associated with the eXCHANGE account. For more

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information, refer to the Exchange Multi-Factor Authentication (MFA) Quick Guide in the Manuals section of 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

- 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. Upon registration, SAM will automatically assign a Unique Entity ID (UEI).

NOTE: Due to the high demand of UEI requests and SAM registrations, entity legal business name and address validations are taking longer than expected to process. Entities should start the UEI and SAM registration process as soon as possible. If entities have technical difficulties with the UEI validation or SAM registration process they should utilize the HELP feature on SAM.gov. SAM.gov will work entity service tickets in the order in which they are received and asks that entities not create multiple service tickets for the same request or technical issue. Additional entity validation resources can be found here: GSAFSD Tier 0 Knowledge Base - Validating your Entity.

- 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.

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