

Notice of Intent No. DE-FOA-0001935

Notice of Intent to Issue Funding Opportunity Announcement No. DE-FOA-0001924

The Office of Energy Efficiency and Renewable Energy (EERE) intends to issue, on behalf of the Wind Energy Technologies Office, a Funding Opportunity Announcement (FOA) entitled “Advanced Wind R&D to Reduce Costs and Improve Environmental Performance”.

This FOA supports efforts aimed at catalyzing technical and operational solutions to reduce environmental compliance costs and improve environmental performance of turbines.

It is anticipated that the FOA may include the following Areas of Interest:

Topic Area 1: Advancing Smart Curtailment Strategies

This Topic Area is anticipated to support the development of operational regimes and advanced turbine control algorithms designed to minimize energy loss due to curtailment regimes currently required to minimize mortality of listed bat species at wind farms. These regimes and algorithms must also preserve or improve environmental performance associated with the current practice of wind speed-based cut-in speed adjustments. This Topic Area would support research to make such curtailment strategies more refined, or “smarter,” limiting curtailment to periods of high risk.

Topic Area 2: Advanced Component Research and Development

This Topic Area is anticipated to support the development of novel advanced components/instrumentation to reduce wind farm impacts on bats, such as ultrasonic acoustic deterrents. These technologies could be used in lieu of curtailment, thus reduce curtailment-driven revenue loss. This Topic Area will focus on technology research and development activities to:

- 1) Develop novel approaches and configurations;
- 2) Increase range of systems in an effort to cover the rotor swept areas of current technologies and also larger rotor systems of the future;
- 3) Redesign and test deterrent stimuli to target existing performance gaps;
- 4) Work to address fundamental design questions including integration with blades, power system integration, and weatherization; and
- 5) Establish the efficacy of these improvements.

This is a Notice of Intent (NOI) only. EERE may issue a FOA as described herein, may issue a FOA that is significantly different than the FOA described herein, or EERE may not issue a FOA at all.

Topic Area 3: Development and Validation of Offshore Wind Monitoring and Mitigation Technologies

This Topic Area is anticipated to support the development and validation of monitoring and mitigation technologies to address offshore wind challenges unique to United States waters. Awards issued under this topic area will support the development and validation of pre- and post-construction wildlife monitoring and mitigation solutions. Areas of particular, though not exclusive, interest include:

- 1) The development of monitoring and mitigation solutions regarding noise impacts; and
- 2) The development of automated blade collision monitoring systems.

EERE envisions awarding multiple financial assistance awards in the form of cooperative agreements. The estimated period of performance for each award will be approximately two to three 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 on or about mid-July of 2018 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 registration annually.

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- 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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