

Notice of Intent No. DE-FOA-0001582

Notice of Intent to Issue Funding Opportunity Announcement No. DE-FOA0001419

The Office of Energy Efficiency and Renewable Energy (EERE) intends to issue, on behalf of the Wind and Water Power Technologies Office, a Funding Opportunity Announcement (FOA) entitled “Wave Energy Test Facility”.

To support the full-scale testing of MHK wave energy devices, the Water Power Program intends to fund the building and commissioning of an open-water, grid-connected, fully energetic domestic wave energy test facility. This Funding Opportunity Announcement would be for the development, and construction of such a facility.

It is anticipated that the FOA will include the following area of interest.

Area of Interest

The overall objective of the FOA is to fund the construction of a national wave energy test facility within U.S. federal (territorial sea or contiguous zone) or state waters. Up to \$40 million in federal funding, depending on appropriations, will be provided to fund development and construction activities for a U.S. based grid-connected wave test facility. The facility should have at least three test berths in order to test wave energy devices simultaneously and independently, up to 1 MW each in size. The site should be located in U.S. federal or state waters, subject to full (unprotected) oceanic wave regimes with wave average annual power density ≥ 30 kW/m, and with testing berth water depths ≥ 60 m. An industry survey of desired test site conditions should be used to support the site location choice, in terms of water depth and wave power density. The facility should incorporate features to accommodate all wave energy converter types that operate at the test site depth. The site should provide a capability to deploy environmental instrumentation for monitoring and measuring wave energy testing effects.

The proposed facility design can be for new construction or involve the design and modification of existing facilities equipped with electrical, mechanical, and other physical needs associated with wave energy device testing. Access to marine support vessels, cranes, ports, and other facility infrastructure suitable for accommodating associated components and equipment assembly, disassembly, check-out, and servicing will be required. It is envisioned that the facility will include sufficient office space for permanent staff and visiting users, as well as conference

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rooms, lunch rooms, restrooms, and computer stations. Prior to approval to proceed with construction activities, applicants will be required to deliver a detailed multi-phase plan that includes a final design, vendor quotes, a construction management plan and schedule, a description of supporting logistical infrastructure and capabilities, a test facility operation and maintenance plan including commissioning, evidence for completion of all permitting and regulatory approvals, and a 5-year business plan that projects the facility costs, revenues, and potential to reach funding self-sufficiency. Applicants will also be required to set forth a plan for disposition of equipment and real property, a plan for allowing users to access the facility (e.g., peer review of user applications) and a plan for the disposition of intellectual property (e.g., patents, technical data) that arise as a result of testing at the facility.

EERE envisions awarding one financial assistance award in the form of a cooperative agreement. The estimated period of performance will be up to 5 years. In the FOA, the Department will implement a cost share waiver to reduce the 50% cost share requirement (Section 988 of EPACT 2005 for facility procurement and construction) to 20% for Institutions of Higher Education, national laboratories, nonprofit entities, small businesses, and federally funded research and development centers (FFRDCs).

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 in August of 2016 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>

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- 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.
- 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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