

Notice of Intent No. DE-FOA-0001684

Notice of Intent to Issue Funding Opportunity Announcement No. DE-FOA-0001663

The Office of Energy Efficiency and Renewable Energy (EERE) intends to issue, on behalf of the Water Power Technologies Office (WPTO), a Funding Opportunity Announcement (FOA) titled “Marine and Hydrokinetic Technology Development and Advancement”.

This FOA supports the research, testing, and development of innovative technologies capable of generating renewable, environmentally responsible and cost-effective electricity from U.S. water resources. These include marine and hydrokinetic (MHK) technologies that harness the energy from waves and ocean/tidal/river currents. The MHK sub-program of the WPTO has the opportunity to focus on the technologies that can be deployed in markets with high energy costs in the near-term, while supporting next generation technologies that have the potential to be cost competitive with other energy generation technologies in the longer term, and this FOA targets technologies in both categories. This notice announces EERE’s intent to support MHK research and development projects in two Topic Areas: (1) system advancement and sub-scale testing of high energy capture wave energy converters, and (2) open topic on MHK technology development.

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

Topic Area 1: Wave Energy Converters System Advancement

The objective of this Topic Area is to design and build high energy capture wave energy converters and conduct scaled fully operational system testing in open water. The scale of the system to be tested in open water is assumed to be 1/4th to 1/10th scale, however the scale should be proposed and justified by the potential applicant. The MHK industry has a full range of systems at varying levels of maturity, and the focus of this Topic Area is to advance the system readiness of those technologies which have the greatest potential to compete with other energy generation technologies in the longer term. The number of applications will be restricted to one (1) application per applying entity for this Topic Area.

Topic Area 2: Open Topic – MHK Technology Development

The objective of this Topic Area is to develop innovative technologies that have the potential to significantly advance MHK technologies and the state of the MHK industry. The MHK industry has a full range of systems at varying levels of maturity, and this Topic Area is intended to be open so that potential applicants can propose activities which address the needs that are most

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important to their present technology development. WPTO specifically encourages applications in the areas of wave energy or tidal, river in-stream, or ocean current energy. The focus of this Topic Area is specifically on technology development and is not seeking applications that propose to address environmental/social barriers to deployment. The number of applications will be restricted to one (1) application per applying entity for this Topic Area.

EERE envisions awarding multiple financial assistance awards in the form of cooperative agreements. The estimated period of performance for each award will be up to 3.5 years for Topic Area 1 and up to 2 years for Topic Area 2.

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-December 2016 via the EERE Exchange website <https://eere-exchange.energy.gov/>. If potential 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, potential 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.
- 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

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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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