Notice of Intent No. DE-FOA-0001309

Notice of Intent to Issue
Funding Opportunity Announcement No. DE-FOA-0001286

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 “Research and Development of Innovative Technologies for Low Impact Hydropower Development”.

This FOA will support research and development of new innovations in hydropower drivetrain and civil works technologies for low impact hydropower development. The focus will be to reduce overall capital costs and recurring operation and maintenance costs and reduce the environmental impact of developing new hydropower projects.

The technologies to be developed will include low impact civil structures, alternative construction methods and materials, and innovative mechanical and electrical powertrain components. These technologies will also help to reduce installation and maintenance costs, while addressing the environmental and social concerns of new hydropower development.

DOE will solicit innovative ideas to harness hydropower that can be rapidly built, removed, and replaced when necessary. Applicants will be encouraged to provide new concepts for alternative hydropower systems that will lower the costs of civil infrastructure development, can be deployed in a maximum of two (2) years with relatively low environmental impacts, and can be removed or replaced after their intended life is completed. These concepts and systems should be able to operate at a cost that is competitive with traditional sources of generation.

It is anticipated that the FOA may include the following topic areas:

**Topic Area 1: Design and laboratory testing of new rapidly deployable hydropower technologies that can be easily removed or replaced at the end of their useful life, including, but not limited to, water impounding structures, water conveying systems, and innovative pre-fabricated structures.**

These technologies should be scalable in a range of head from 10 to 50 feet. The applicant will be responsible for first developing a proof of concept design and then advancing the prototype to the next stage of laboratory testing. Specific testing methodologies performed in the laboratory may vary based on the technology being developed. Examples of testing may include tests for structural and hydraulic performance, water-tightness, stability, etc. Applications to this topic area would address Technology Readiness Levels (TRLs) in the 3 to 6 range (3 anticipated awards, with an average award amount of $1,500,000).
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.
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 http://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.