

Notice of Intent No. DE-FOA-0001220

Notice of Intent to Issue Funding Opportunity Announcement No. DE-FOA-0001108

The Office of Energy Efficiency and Renewable Energy (EERE) intends to issue, on behalf of the Solar Energy Technologies Office, a Funding Opportunity Announcement (FOA) entitled “Sustainable and Holistic IntegratioN of Energy storage and Solar PV (SHINES)”.

As solar power plants proliferate, the variability and uncertainty of the solar resource poses challenges for integrating PV with electric power systems, both at the distribution and bulk system levels. The goal of this Funding Opportunity from the Department of Energy is to enable holistic design, development, and widespread sustainable deployment of low-cost, flexible, and reliable solutions that have energy storage as one of the key components, for successful integration of PV power plants. The SHINES solution can incorporate, in addition to PV and energy storage, options such as demand response and load management to achieve the target metrics of the FOA. The total Federal funding will be approximately \$15M, subject to the availability of annual appropriations, with a minimum 50% awardee cost share required. Projects are expected to be funded with a maximum award level of \$5M. These projects will directly support the SunShot Systems Integration mission of enabling the technologies and processes for sustainable and holistic integration of 100s of GW of solar generation into the power system.

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

Areas of Interest – Systems integration and optimized operation of Solar power plants.

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 after October 20, 2014 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:

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

- 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 https://www.fedconnect.net/FedConnect/PublicPages/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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