

PMC-ND
(1.08.09.13)

**U.S. DEPARTMENT OF ENERGY
OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY
NEPA DETERMINATION**



RECIPIENT:The Regents of the University of California, San Diego

STATE: CA

PROJECT TITLE : Intra-hour dispatch and automatic generator control demonstration with solar forecasting

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000865	DE-0006330	GFO-0006330-001	

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:

CX, EA, EIS APPENDIX AND NUMBER:

Description:

A9 Information gathering, analysis, and dissemination Information gathering (including, but not limited to, literature surveys, inventories, site visits, and audits), data analysis (including, but not limited to, computer modeling), document preparation (including, but not limited to, conceptual design, feasibility studies, and analytical energy supply and demand studies), and information dissemination (including, but not limited to, document publication and distribution, and classroom training and informational programs), but not including site characterization or environmental monitoring. (See also B3.1 of appendix B to this subpart.)

A11 Technical advice and assistance to organizations Technical advice and planning assistance to international, national, state, and local organizations.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to The Regents of the University of California, San Diego to demonstrate, in a fully replicable way, how a utility company can benefit from accurate solar resourcing and forecasting in order to reduce operational costs associated with balancing area (BA) intra-hour dispatch and automatic generator control (AGC). The primary objectives of this effort would be to reduce power system operation cost by committing appropriate amount of energy resources and reserves, as well as to provide operators a prediction of the generation fleet's behavior in real time for realistic PV penetration scenarios. The operational tools would be applied to and tested in the Sacramento Municipal Utility District service region. DOE funding would be used for analysis, forecasting, and modeling.

Based on review of the project information and the above analysis, DOE has determined the information gathering and technical advice activities would not have a significant individual or cumulative impact to human health and/or environment. DOE has determined the proposed project is consistent with the actions contained in DOE categorical exclusions A9 "information gathering, analysis, and dissemination," and A11 "technical advice and assistance to organizations," and is categorically excluded from further NEPA review.

NEPA PROVISION

DOE has made a final NEPA determination for this award

Insert the following language in the award:

If you intend to make changes to the scope or objective of your project you are required to contact the Project Officer identified in Block 11 of the Notice of Financial Assistance Award before proceeding. You must receive notification of approval from the DOE Contracting Officer prior to commencing with work beyond that currently approved.

Note to Specialist :

This NEPA Determination does not require a tailored NEPA provision.

Kelly Daigle 8/14/2013

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____

Electronically Signed By: Kristin Kerwin
NEPA Compliance Officer

Date: 8/15/2013

FIELD OFFICE MANAGER DETERMINATION

Field Office Manager review required

NCO REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:

- Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention.
- Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.

BASED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO :

Field Office Manager's Signature: _____

Field Office Manager

Date: _____

Based on my review of the information gathered, and my review of the information gathered, I have made the following determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to the University of California, San Diego to demonstrate a fully replicable way how a utility company can benefit from solar resource and increasing in order to reduce operational costs associated with battery storage and power system operation cost by optimizing appropriate amount of energy resources and reserves, as well as to provide a prediction of the generation fleet's behavior in real time for realistic PV generation scenarios. The operational tool would be applied to and tested in the Sacramento Municipal Utility District service region. DOE funding would be used for analysis, forecasting, and modeling.

Based on review of the project information and the above analysis, DOE has determined the information gathered and technical advice submitted would not have a significant impact or cumulative impact on human health and environment. DOE has determined the proposed project is consistent with the actions contained in DOE categorical exclusion "Information gathering, analysis, and dissemination," and AIT "technical advice and assistance to organizations," and is categorically excluded from further NEPA review.

NEPA PROVIDED
DOE has made a final NEPA determination for this work.

from the following language in the work:

If you intend to make changes to the scope or objectives of your project you are required to contact the Project Officer identified in Block 1) of the Project Financial Assistance Award before proceeding. You must receive notification of approval from the DOE Contracting Officer prior to commencing work beyond the currently approved scope.

Note: a signature

The NEPA Determination does not require a signed NEPA provision.

Kelly Dague 8/15/2013

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.