

PMC-EF2a

U.S. DEPARTMENT OF ENERGY
EERE PROJECT MANAGEMENT CENTER
NEPA DETERMINATION



(2.04.02)

RECIPIENT: Florida State University

STATE: FL

PROJECT TITLE : Sunshine State Solar Grid Initiative

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0000085	DE-EE0002063	GFO-10-272	0

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 (including, but not limited to, literature surveys, inventories, audits), data analysis (including computer modeling), document preparation (such as conceptual design or feasibility studies, analytical energy supply and demand studies), and dissemination (including, but not limited to, document mailings, publication, and distribution; and classroom training and informational programs), but not including site characterization or environmental monitoring.
- B3.6** Siting, construction (or modification), operation, and decommissioning of facilities for indoor bench-scale research projects and conventional laboratory operations (for example, preparation of chemical standards and sample analysis); small-scale research and development projects; and small-scale pilot projects (generally less than two years) conducted to verify a concept before demonstration actions. Construction (or modification) will be within or contiguous to an already developed area (where active utilities and currently used roads are readily accessible).

Rational for determination:

This project is for the development of validated software models for distributed generators, and using these models to simulate high levels of PV grid integration. The models reflect power inverters tied to PV resources. The models would be verified by data collected from various PV projects throughout the state of Florida. Existing or planned PV systems from partner utilities would be identified for study. Data collection systems would be installed based on a priority list of sites identified as part of the study. These data systems would collect, at a minimum; voltage, current and reactive power numbers from the PV systems and report the data to FSU.

Additionally, some R&D work will occur within FSU and UCF as regards the development of an advanced power conditioner. This advanced power conditioner would be tested at field locations. The equipment used in this project is bolted onto existing infrastructure at PV sites. The same will be true of FSU's advanced power conditioner. It will be connected to an existing field test PV system as a standard Central Inverter and performance tested. An R&D Laboratory Environmental Impact Questionnaire has been completed for this aspect of the project.

The project also involves workshops, publication, and outreach activities.

This project involves model development, data analysis, information dissemination, and small scale research for evaluation purposes; therefore it qualifies for a CX under A9 and B3.6.

NEPA PROVISION

DOE has made a final NEPA determination for this award

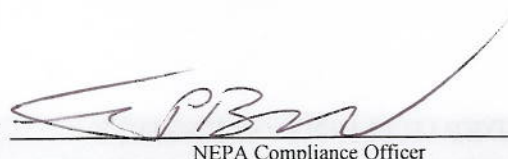
Insert the following language in the award:

Note to Specialist :

None Given.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____



NEPA Compliance Officer

Date: 3/18/10

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: _____