PMC-ND

(1.08.09.13)

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



RECIPIENT: Pika Energy

STATE: ME

PROJECT

TITLE:

High-performance Bi-Directional Inverter for Solar Plus Storage

Funding Opportunity Announcement Number

Procurement Instrument Number

NEPA Control Number CID Number

DE-FOA-0001400

DE-EE0007593

GFO-0007593-001

GO7593

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.)

B3.6 Small-scale research and development, and pilot projects

Siting, construction, modification, operation, and decommissioning of facilities for smallscale research and development projects; conventional laboratory operations (such as preparation of chemical standards and sample analysis); and small-scale pilot projects (generally less than 2 years) laboratory operations, frequently conducted to verify a concept before demonstration actions, provided that construction or modification would be within or contiguous to a previously disturbed or developed area (where active utilities and currently used roads are readily accessible). Not included in this category are demonstration actions, meaning actions that are undertaken at a scale to show whether a technology would be viable on a larger scale and suitable for commercial deployment.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to Pika Energy to upgrade the "Energy Island" inverter's hardware and software to advance from a bench-level prototype with basic grid-forming (i.e. backup) capability to a fully-functional prototype.

Proposed activities would include the design, development, fabrication and in-lab and field testing of residential-scale electronics equipment for solar-plus-storage systems. These activities would be completed at Pika Energy's office/industrial park in Westbrook, ME. This facility is equipped with an existing rooftop solar array, enabling on-site field testing. The proposed field testing activities would involve collecting power and transmitting it to power electronics equipment housed indoors for validation of inverter upgrades. This facility was designed for the type of research being completed; therefore, no modifications or new permits, additional licenses and/or authorizations would be necessary.

The proposed project would not necessitate the use/handling of any hazardous substances and no hazardous wastes would be generated. Wastes would be limited to wire clippings, packaging materials and other non-hazardous plastic and metal materials that would be disposed of through normal municipal waste streams.

Based on the review of the proposal, DOE has determined the proposal fits within the class of action(s) and the integral elements of 10 CFR 1021 subpart B outlined in the DOE categorical exclusion(s) selected above. DOE has also determined that: (1) there are no extraordinary circumstances (as defined by 10 CFR 1021.410(2)) related to the proposal that may affect the significance of the environmental effects of the proposal; (2) the proposal has not been segmented to meet the definition of a categorical exclusion; and (3) the proposal is not connected to other actions with potentially significant impacts, related to other proposals with cumulatively significant actions, or an improper interim action. This proposal 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 the Recipient intends to make changes to the scope or objective of this project, the Recipient is required to contact the Project Officer, identified in Block 15 of the Assistance Agreement before proceeding. The Recipient must receive notification of approval

from the DOE Contracting Officer prior to commencing with work beyond that currently approved. If the Recipient moves forward with activities that are not authorized for Federal funding by the DOE Contracting Officer in advance of a final NEPA decision, the Recipient is doing so at risk of not receiving Federal funding and such costs may not be recognized as allowable cost share. Note to Specialist: Solar Energy Technologies Office This NEPA determination does not require a tailored NEPA provision. Review completed by Rebecca McCord, 08/9/2016 SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION. Kristin Kerwin NEPA Compliance Officer Signature: NEPA Compliance Officer 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:

U.S. DOE: Office of Energy Efficiency and Renewable Energy - Environmental Question... Page 2 of 2