PMC-ND

(1.08.09.13)

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



RECIPIENT: Mission Sun Corp.

STATE: NY

PROJECT TITLE : Low-cost High Frequency Inverter Development for Utility Scale PV

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number CID Number
DE-FOA-0002609	DE-EE0010473	GFO-0010473-001

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Policy 451.1), 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, laboratory operations, 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) 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 Mission Sun Corp. to design, develop, and fabricate a 350 kW solar string inverter for utility-scale solar photovoltaic (PV) plants that helps to reduce the price of solar power.

The types of activities associated with the proposed project include customer/stakeholder outreach, data analysis, computer modeling, preliminary engineering/design, and bench-scale laboratory testing. The scope of the proposed project is limited to research and development (R&D) and does not include the manufacturing of commercial products; only the development and assembly of critical components and early prototypes to be used for performance evaluation purposes. No field testing would be involved.

All work would be conducted indoors within existing office and laboratory space at the Recipient's R&D facilities in Potsdam, NY (principal place of performance), Albany, NY, and West Hartford, CT. No change in the use, mission, or operation of existing facilities would arise out of this effort. The Recipient would not need to modify their laboratories or obtain any permits for the proposed project. In-lab activities would be carried out following existing health and safety policies and procedures, including employee training, proper protective equipment, engineering controls, monitoring, and internal assessments. The proposed project would not involve the use or handling of hazardous materials.

DOE has considered the location, scale, and nature of the proposed activities to determine potential issues related to resources of concern and found no effects that would be expected to result from the proposed project.

NEPA PROVISION

DOE has made a final NEPA determination.

Notes:

Solar Energy Technologies Office (SETO) Reviewed completed by Whitney Donoghue on 04/13/2023.

FOR CATEGORICAL EXCLUSION DETERMINATIONS

The proposed action (or the part of the proposal defined in the Rationale above) fits within a class of actions that is listed in Appendix A or B to 10 CFR Part 1021, Subpart D. To fit within the classes of actions listed in 10 CFR Part 1021, Subpart D, Appendix B, a proposal must be one that would not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environment, safety, and health, or similar requirements of DOE or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment facilities (including incinerators), but the proposal must be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources, including, but not limited to, those listed in paragraph B(4) of 10 CFR Part 1021, Subpart D, Appendix B; (5) involve genetically engineered organisms, synthetic biology, governmentally designated noxious weeds, or invasive species, unless the proposed activity would be contained or confined in a manner designed and operated to prevent unauthorized release into the environment and conducted in accordance with applicable requirements, such as those listed in paragraph B(5) of 10 CFR Part 1021, Subpart D, Appendix B.

There are no extraordinary circumstances related to the proposed action that may affect the significance of the environmental effects of the proposal.

The proposed action has not been segmented to meet the definition of a categorical exclusion. This proposal is not connected to other actions with potentially significant impacts (40 CFR 1508.25(a)(1)), is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1508.27(b)(7)), and is not precluded by 40 CFR 1506.1 or 10 CFR 1021.211 concerning limitations on actions during preparation of an environmental impact statement.

The proposed action is categorically excluded from further NEPA review.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature:

Restroncelly Signed By: Andrew Montano NEPA Compliance Officer

Date: 4/18/2023

FIELD OFFICE MANAGER DETERMINATION

Field Office Manager review not required

□ Field Office Manager review required

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

Field Office Manager's Signature:

Field Office Manager

Date: