PMC-ND

(1.08.09.13)

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



RECIPIENT: StorEdgeAl LLC STATE: WA **PROJECT TITLE :** Re-thinking solar energy delivery: Non-wire solar-powered energy-carriers, integrated with utilityscale generation, to advance solar adoption to 30% of the total generation before 2030 Funding Opportunity Announcement Number Procurement Instrument Number NEPA Control Number CID Number DE-FOA-0002243 DE-EE0009331 GFO-0009331-003 GO9331 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** Information gathering (including, but not limited to, literature surveys, inventories, site visits, and gathering, analysis, audits), data analysis (including, but not limited to, computer modeling), document preparation and dissemination (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** Siting, construction, modification, operation, and decommissioning of facilities for smallscale research research and and development projects; conventional laboratory operations (such as preparation of chemical development, 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 and pilot projects 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. **B5.15 Small-scale** Small-scale renewable energy research and development projects and small-scale pilot projects, renewable energy provided that the projects are located within a previously disturbed or developed area. Covered research and actions would be in accordance with applicable requirements (such as local land use and zoning development and requirements) in the proposed project area and would incorporate appropriate control technologies pilot projects and best management practices.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide funding to StorEdgeAI to develop and test a novel solar-powered non-wire energy carrier. The device would be designed to store energy produced by solar photovoltaic (PV) systems. Prototype versions of the energy carrier device would be developed and tested in laboratory settings and outdoors at a dedicated solar farm.

An initial NEPA Determination (GFO-0009331-001; CXs A9, B3.6, B5.15; 12/23/2020) reviewed all project activities. A second NEPA Determination (GFO-0009331-002; CXs A9, B3.6, B5.15; 7/27/2021) reviewed a change in location for project activities.

StorEdgeAI is proposing to expand upon activities at previously reviewed locations, i.e., existing residential laboratories. Proposed project activities would include installation of five battery modules within a 12 ft x 10 ft x 10 ft cargo trailer and performing power tests of up to 70 kilowatts on those modules. The modules would be part of a self-contained electricity circuit and would not be connected to an outside power source. No new construction or ground disturbance, or additional permits or authorizations, would be necessary to perform project activities.

Upon review of the proposed changes, DOE has determined that all project activities would still fall within the categories of actions covered by the CXs that were previously applied to this award.

NEPA PROVISION

DOE has made a final NEPA determination.

Notes:

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 may include categorically excluded waste storage, disposal, recovery, or treatment actions or facilities; (3) disturb hazardous substances, pollutants, contaminants, or CERCLA-excluded petroleum and natural gas products that preexist in the environment such that there would 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:

Rectronically Signed By: Andrew Montano NEPA Compliance Officer

Date: 9/7/2023

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: