PMC-ND (1.08.09.13)

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



STATE: AZ

RECIPIENT: Arizona State University

PROJECT Artificial Intelligence for Robust Integration of AMI and PMU Data to Significantly Boost Renewable

TITLE: Penetration

Funding Opportunity Announcement Number Procurement Instrument Number NEPA Control Number CID Number DE-FOA-0002243 DE-EE0009355 GFO-0009355-001 GO9355

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,

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 analysis, and dissemination (including, but not limited to, document publication and distribution, and classroom training and dissemination informational programs), but not including site characterization or environmental monitoring. (See also B3.1 of appendix B to this subpart.)

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to provide federal funding to Arizona State University (ASU) to develop machine learning frameworks to process raw data from integrated solar photovoltaic (PV) systems. As part of the project, existing data would be used to develop machine learning algorithms and model their application in simulated environments. The project would be completed over three Budget Periods (BPs), with a Go/No-Go Decision Point in between each BP.

ASU would oversee all project work. Proposed activities would include literature reviews, data analysis, computer modeling, conceptual design work, algorithm/software development, and reporting. Raw data would be acquired from utility partners. No physical testing would be performed.

ASU would observe all applicable Federal, state, and local health, safety, and environmental regulations when performing project work.

NEPA PROVISION

DOE has made a final NEPA determination.

Notes:

Solar Energy Technologies Office This NEPA determination does not require a tailored NEPA Provision. NEPA review completed by Jonathan Hartman, 01/20/2021

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 MEMORANDU	M CONSTITUTES A RECORD OF THIS DECISION	•	
NEPA Compliance Officer Signature:	Region by Kristin Kerwin	Date:	1/20/2021
	NEPA Compliance Officer		
FIELD OFFICE MANAGER DETERM	INATION		
✓ Field Office Manager review not required☐ Field Office Manager review required			
BASED ON MY REVIEW I CONCUR V	WITH THE DETERMINATION OF THE NCO:		
Field Office Manager's Signature:		Date:	
	Field Office Manager		