

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



RECIPIENT: REMADE Institute

STATE: NY

PROJECT TITLE : Clean Energy manufacturing Innovation Institute for Reducing Embodied-energy And Decreasing Emissions (REMADE) in Materials Manufacturing

Funding Opportunity Announcement Number	Procurement Instrument Number	NEPA Control Number	CID Number
DE-FOA-0001594	DE-EE0007897	GFO-0007897-BP5	GO7897

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.)

A11 Technical advice and assistance to organizations

Technical advice and planning assistance to international, national, state, and local organizations.

B1.31 Installation or relocation of machinery and equipment

Installation or relocation and operation of machinery and equipment (including, but not limited to, laboratory equipment, electronic hardware, manufacturing machinery, maintenance equipment, and health and safety equipment), provided that uses of the installed or relocated items are consistent with the general missions of the receiving structure. Covered actions include modifications to an existing building, within or contiguous to a previously disturbed or developed area, that are necessary for equipment installation and relocation. Such modifications would not appreciably increase the footprint or height of the existing building or have the potential to cause significant changes to the type and magnitude of environmental impacts.

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 the Sustainable Manufacturing Innovation Alliance to establish the Clean Energy Manufacturing Innovation Institute for Reducing Embodied-energy And Decreasing Emissions (REMADE) in materials manufacturing. The REMADE Institute is a consortium established under a cooperative agreement with the DOE and with participation from numerous partners.

This project has five budget periods and all project activities within budget period 1 through budget period 5 (BP1 – BP5) have now been defined. This NEPA determination is specific to BP5. DOE previously completed the following NEPA determinations for this award: GFO-0007897-001 for BP1 on 12/07/2016, GFO-0007897-002 for BP2 on 04/19/2018, GFO-0007897-BP3 for BP3 on 11/15/2019, and GFO-0007897-004 for BP4 on 01/29/2021.

There is currently one new activity proposed in BP5: Task 11.4, which is an economic and workforce development project that will only involve team meetings to develop training content. The remaining activities are carried over from previous BPs, including 45 active projects that were reviewed under previous NEPA determinations. The revised BP5 SOPO describes BP5 activities, and the revised BP5 continuation spreadsheet lists the active projects carried over from previous BPs. Tasks 1-5 remain largely unchanged from those tasks in BP1 – BP4, with minor refinements in the approach and timing of relevant milestones. Projects still active in Tasks 6.0 through 11.3 continue into BP5 with no substantive changes to the work or any new work locations.

Each task/subtask in BP5 would be completed by either the prime recipient or one of the project partners listed in the

spreadsheet attached to the EQ1 in response to question 2b. The proposed work activities for these projects are generally laboratory scale operations; equipment installation and fabrication; data analysis and modeling; or educational, managerial, and reporting activities. The location of the facilities and description of proposed activities for the prime recipient and each partner are detailed within question 2b of the completed EQ1 for each individual project.

None of the activities occurring during BP5 at any of the listed facilities would require new permits, licenses, or authorizations. No new waste streams or effluents would be produced as a result of the proposed activities, and all facilities would conduct activities consistent with current operations. Equipment acquisition, maintenance, and upgrades may be required, with only minor modifications to facilities due to equipment installation.

Some project activities could involve the use and handling of various hazardous materials including acids, bases, and industrial solvents. All facilities would comply with relevant federal, state, and local health, safety, and environmental regulations.

Additional projects may be added into the REMADE Institute. If those projects involve activities at locations that conform to the rationale and CXs described above, they will be incorporated into this NEPA Determination. Any new projects that do not fit the above will be required to submit individual EQ1s for separate review.

NEPA PROVISION

DOE has made a final NEPA determination.

Include the following condition in the financial assistance agreement:

The recipient is required to consult with the DOE Project Officer and NEPA Specialist regarding any project that would result in:

- changes in function, use, or operation of existing facilities, and/or
- modifications to existing facilities other than minor modifications (e.g. electrical and ductwork rerouting) required for equipment installation, and/or
- ground disturbing or new construction activities

prior to initiating any of these activities in order to determine whether additional NEPA review is required.

Notes:

This NEPA Determination requires a tailored NEPA provision.
Advanced Materials & Manufacturing Technologies Office (AMMTO)
NEPA review completed by Melissa Parker, 11/16/23

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:  _____ Date: 11/28/2023
NEPA Compliance Officer

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: _____ Date: _____
Field Office Manager