



U.S. Department of Energy Categorical Exclusion Determination Form

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Proposed Action Title: The Seeding Critical Advances for Leading Energy technologies with Untapped Potential (SCALEUP) Small Business Support Grants

Program or Field Office: Advanced Research Projects Agency - Energy (ARPA-E)

Location(s) (City/County/State): AR; CA; CO; DC; ID; MA; MD; MN; NM; OR; RI; TX; VT; WA, WI

Proposed Action Description:

FIRST AMENDED PROGRAMMATIC NEPA DETERMINATION (See attached original Programmatic Determination, dated August 20, 2020) Projects funded under the SCALEUP Program seeks to build from ARPA-E's primary research and development (R&D) focus to support the scaling of high-risk and potentially disruptive new technologies across the full spectrum of energy applications. If successful, the SCALEUP small business support grants will encourage and facilitate substantive participation of small business in the SCALEUP Program.

The SCALEUP Program's small business support grants will support 10 eligible small business applicants. This First Amended Determination adds a project (Imagen Energy, LLC) to the Determination signed on August 20, 2020. (See Attachment A for all 10 projects covered by this and the prior Determination). All 10 projects fit within the class of actions identified under the DOE Categorical Exclusion identified below and do not involve any extraordinary circumstances that may affect the significance of the environmental effects of the projects. This assessment was based on a review of the proposed scope of work and the potential environmental impacts of each project. All project tasks under these awards are limited exclusively to intellectual, academic, or analytical activities. The project teams will not conduct physical experiments.

Categorical Exclusion(s) Applied:

A9 - Information gathering, analysis, and dissemination

For the complete DOE National Environmental Policy Act regulations regarding categorical exclusions, including the full text of each categorical exclusion, see Subpart D of [10 CFR Part 1021](#).

Regulatory Requirements in 10 CFR 1021.410(b): (See full text in regulation)

The proposal 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 proposal that may affect the significance of the environmental effects of the proposal.

The proposal 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.

Based on my review of the proposed action, as NEPA Compliance Officer (as authorized under DOE Order 451.1B), I have determined that the proposed action fits within the specified class(es) of action, the other regulatory requirements set forth above are met, and the proposed action is hereby categorically excluded from further NEPA review.

NEPA Compliance Officer: **Geoffrey Goode** Digitally signed by Geoffrey Goode
Date: 2020.09.03 12:51:33 -04'00'

Date Determined:

Attachment A: Projects in the SCALEUP Small Business Support Grants (FOA No. DE-FOA-0002166)

Prime Recipient (Control No.)	Project Title	Categorical Exclusion
Opus 12, Inc. (2166-1530)	PEM CO2 Electrolyzer Scale-up	A9
Packetized Energy Technologies, Inc. (2166-1528)	Beyond Demand Response: Bringing Real-Time Grid-Edge Flexibility to Scale	A9
Utilitdata, Inc. (2166-1611)	Transformation of the Distribution System: Distributed and Resilient Optimal Power Flow	A9
Exergi Predictive (2166-1602)	Connected Energy Management System for Electrified Last Mile Delivery Vehicles	A9
Feasible, Inc. (2166-1526)	SOUND Battery Manufacturing: System for On-line Ultrasound-based Non-invasive Detection to improve Battery Manufacturing	A9
NewGrid, Inc. (2166-1664)	Grid Reconfigurations of Underlying Topology for Efficiency and Reliability (Grid Router)	A9
Mantel Technologies, Inc. (2166-1631)	Turbo-Compression Cooling	A9
Onboard Dynamics, Inc.	Self-Contained Methane Treatment & Compression System	A9
Next State Systems, LLC	WATER SAVER: WATER Sensors for AdVanced Energy use Reduction	A9
Imagen Energy, LLC	Compact 1MW Electric Drive System for Water Treatment High-Speed Turbo Blowers	A9