

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



RECIPIENT: 350Solutions

STATE: NC

PROJECT TITLE: Voucher Opportunity 5-13: Commercialization Support for Field Testing Support for Validation of Novel Resource Sustainability Technologies- Banyu Carbon Recipient

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|--|--------------------------------------|----------------------------|-------------------|
| Funding Opportunity Announcement Number | Procurement Instrument Number | NEPA Control Number | CID Number |
| n/a | PIA | GFO-VoucherOpp5-006 | |

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:

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| A8 Awards of certain contracts | Awards of contracts for technical support services, management and operation of a government-owned facility, and personal services. |
| 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. |
| 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:

In November 2022, the U.S. Department of Energy (DOE) issued a Broad Agency Announcement indicating an interest in entering into one or multiple agreements with partnership intermediaries to work with DOE's Office of Technology Transfer (OTT), other DOE offices and programs, and DOE National Laboratories and Facilities. Through one or more Partnership Intermediary Agreements (PIAs), DOE would expand its capabilities to connect and engage with the broader energy and national security ecosystem and address gaps facing companies, organizations and communities seeking to engage with DOE and/or develop, scale, commercialize, deploy, and adopt technologies relevant to DOE's mission. This NEPA determination (ND) evaluates the DOE Voucher Opportunity (VO) Program.

DOE previously completed six NDs for this Program: OCED-PIA-001 (CX A8, A9, A11, B3.6; 05/02/2023) which applied to VO1 through VO4, GFO-VoucherOpp5OTT-001 (CX A8, A9, A11, B3.6; 08/01/2023) which applied to an additional VO (VO5) for commercialization support, GFO-VoucherOpp5OTT-002 (CX A8, A9, A11, B3.6; 01/04/2024), which applied to support voucher opportunities (SVOs) under VO5 (VO5-1 through VO5-10), GFO-VoucherOpp5-003 (CX A8, A9, A11, B3.6; 02/15/2024) which applied to VO5-11, and GFO-VoucherOpp5-004 and GFO-VoucherOpp5-005 (CX A8, A9, A11, B3.6; 02/15/2024), which both applied to VO5-12. This ND (GFO-VoucherOpp5-006) applies to VO5-13 (Banyu).

SVOs under this ND would connect third-party support providers offering analytical and technical capabilities to VO5 recipients. There are 14 SVOs available. SVOs VO5-1 through VO5-10 would involve data collection, administrative tasks, desktop analysis, computer modeling, benchmarking, conducting trainings, and laboratory-based testing. VO5-11 would involve data and information requests, observation of pilot systems in operation, process review, data validation, and providing of recommendations for improvement. VO5-12 would involve pilot system instillation, observation of pilot systems in operation, system monitoring, sampling and onsite testing, and assessment. VO5-13 (Banyu) would involve observation of pilot systems in operation, system monitoring, sampling and onsite testing, and assessment. Sampling and onsite testing would occur at Friday Harbor Laboratories in Friday Harbor, Washington.

Additional NEPA review would be required for VO5-14, which would involve field testing, facility modifications, or ground disturbance.

SVOs would involve typical hazards associated with office and laboratory operations. Any handling, storage, or disposal of hazardous materials would occur within controlled settings and would follow existing policies and procedures. Existing health, safety, and environmental policies and procedures would be followed to mitigate hazards. All activities would comply with existing federal, state, and local laws and regulations.

SVOs would occur entirely within existing, purpose-built facilities; therefore, no adverse impacts to sensitive resources are expected as a result of the proposed activities at any location. No change in the use, mission, or operation of existing facilities and locations would arise out of this effort.

Any work proposed to be conducted at a federal facility may be subject to additional NEPA review by the cognizant federal official and must meet the applicable health and safety requirements of the facility.

NEPA PROVISION

DOE has made a conditional NEPA determination.

The NEPA Determination applies to the following Topic Areas, Budget Periods, and/or tasks:

This ND applies to support voucher opportunity VO5-13 (Banyu), which would not involve facility modifications or ground disturbances.

The NEPA Determination does not apply to the following Topic Area, Budget Periods, and/or tasks:

This ND does not apply to VO5-14, which would involve field testing, facility modifications, or ground disturbances. Such activities must be reviewed individually by DOE to ensure NEPA compliance.

Notes:

Office of Technology Transitions (OTT)
NEPA review completed by Jason Spencer, 02/16/2024

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.

A portion of the proposed action is categorically excluded from further NEPA review. The NEPA Provision identifies Topic Areas, Budget Periods, tasks, and/or subtasks that are subject to additional NEPA review.

SIGNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.

NEPA Compliance Officer Signature: _____



NEPA Compliance Officer

Date: 2/23/2024

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: _____