

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



RECIPIENT: Alaska Village Electric Cooperative, Inc. (Subrecipient-Ocean Renewable Power Company, Inc.) **STATE:** AK

PROJECT TITLE : Marine Energy Feasibility Study for Remote Alaskan Villages

Notice of Funding Opportunity Number	Procurement Instrument Number	NEPA Control Number	CID Number
	DE-EE0010705	GFO-0010705-004	GO10705

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:

B3.2 Aviation activities	Aviation activities for survey, monitoring, or security purposes that comply with Federal Aviation Administration regulations.
B3.16 Research activities in aquatic environments	Small-scale, temporary surveying, site characterization, and research activities in aquatic environments, limited to: (a) Acquisition of rights-of-way, easements, and temporary use permits; (b) Installation, operation, and removal of passive scientific measurement devices, including, but not limited to, antennae, tide gauges, flow testing equipment for existing wells, weighted hydrophones, salinity measurement devices, and water quality measurement devices; (c) Natural resource inventories, data and sample collection, environmental monitoring, and basic and applied research, excluding (1) large-scale vibratory coring techniques and (2) seismic activities other than passive techniques; and (d) Surveying and mapping. These activities would be conducted in accordance with, where applicable, an approved spill prevention, control, and response plan and would incorporate appropriate control technologies and best management practices. None of the activities listed above would occur within the boundary of an established marine sanctuary or wildlife refuge, a governmentally proposed marine sanctuary or wildlife refuge, or a governmentally recognized area of high biological sensitivity, unless authorized by the agency responsible for such refuge, sanctuary, or area (or after consultation with the responsible agency, if no authorization is required). If the proposed activities would occur outside such refuge, sanctuary, or area and if the activities would have the potential to cause impacts within such refuge, sanctuary, or area, then the responsible agency shall be consulted in order to determine whether authorization is required and whether such activities would have the potential to cause significant impacts on such refuge, sanctuary, or area. Areas of high biological sensitivity include, but are not limited to, areas of known ecological importance, whale and marine mammal mating and calving/pupping areas, and fish and invertebrate spawning and nursery areas recognized as being limited or unique and vulnerable to perturbation; these areas can occur in bays, estuaries, near shore, and far offshore, and may vary seasonally. No permanent facilities or devices would be constructed or installed. Covered actions do not include drilling of resource exploration or extraction wells.

Rationale for determination:

The U.S. Department of Energy (DOE) is proposing to administer Congressionally Directed Spending to Alaska Village Electric Cooperative, Inc. (AVEC) to evaluate local resources and the techno-economic feasibility of deploying marine energy generation systems in AVEC-served remote Alaskan communities to decrease their dependence on diesel fuel.

DOE previously completed NEPA Determinations (ND) which applied to Tasks 1, 2, and 4 (GFO-0010705-001; CX A9; 2/29/24), Task 3 applying only to Kaltag, AK and Nulato, AK (GFO-0010705-002; CX A9, B3.2, B3.16; 8/14/24), and Subtask 3.2 applying only to Kobuk River, Yukon River, and Kuskokwim River (GFO-0010705-005; CX A9, B3.2, B3.16; 5/28/25). Under Task 2, AVEC would identify up to 10 (at least two) communities and associated sites for further characterization. This ND only applies to Task 3.2 for the selected Alaskan communities of Old Harbor (Sitkalidak Strait/Passage). Further NEPA review for Subtask 3.2 would be required for additional communities selected under Task 2.

Task 3 activities would involve final site characterization, field work, and community meetings within selected AVEC communities as well as completion of a supply chain, logistics, and workforce development analysis and a techno-economic feasibility analysis for each community studied. Planning activities under Task 3 would occur at AVEC headquarters in Anchorage, AK, Ocean Renewable Power Company, Inc. (ORPC) headquarters in Portland ME, and ORPC - Alaska in Anchorage, AK.

Subtask 3.2 would involve field work conducted by ORPC near the communities of Old Harbor, AK. The proposed

activities would include work along the shoreline and on the waters of the Sitkalidak Strait/Passage during daylight hours. Water velocity profiles, bathymetry measurements, and ice presence characteristics would be obtained in the vicinity of each community. Data would be collected using various methods, including Global Positioning Systems (GPS), an Acoustic Doppler Current Profiler (ADCP) towed at the water surface behind a small vessel, depth sounding by sonar (integrated with the ADCP), and small unmanned aerial system (sUAS or drone) flights to document site conditions. Local motorized skiff operators would be employed for transport and field testing.

AVEC and ORPC have consulted with the communities and Tribes of Old Harbor and the Sitkalidak Strait/Passage and received positive responses to the proposed project activities. Throughout the project, ORPC would conduct continual coordination with the communities and Tribes to identify any sensitive resource areas and ensure local resources would not be impacted by the proposed project activities.

On July 11, 2025, the National Oceanic and Atmospheric Administration (NOAA) concurred with DOE's findings that the proposed action is not likely to adversely affect threatened species or critical habitats.

Drone operations would consist of flying along the shorelines reach during daylight hours to gather video and photographic information. ORPC would coordinate with regional airports to acquire any necessary permits prior to drone operation. Close coordination with the communities of Old Harbor would also occur prior to the proposed field work to establish parameters surrounding drone use.

The recipient is responsible for ensuring that all activities involving sUAS are compliant with 14 CFR Part 107 or an applicable Certificate of Waiver or Authorization (COA). This includes, but is not limited to, aircraft requirements such as remote pilot-in-command certification, authorities and responsibilities; ensuring the sUAS is in a condition for safe operation; registration; understanding airspace classifications and requirements; and accident reporting (if applicable).

The proposed field work would include typical hazards associated with travel to remote communities, working along shorelines, and conducting on-water activities. ORPC has a robust safety program with annual training that includes swift water rescue as well as CPR, AED, and First Aid certification. AVEC and ORPC would implement daily pre-work safety briefings and end of day field reporting exercises during field work. Proper, industry standard protective equipment would be used. All employees would also have the authority to call a "Stop Work" should a safety risk be identified.

DOE has considered potential impacts on resources, including those of an ecological, historical, cultural, and socioeconomic nature. DOE does not anticipate adverse impacts on these resources.

NEPA PROVISION

DOE has made a final NEPA determination.

Include the following condition in the financial assistance agreement:

This project includes the use of small unmanned aerial systems (sUAS). The recipient is responsible for ensuring that all activities involving sUAS are compliant with 14 CFR Part 107 or an applicable Certificate of Waiver or Authorization (COA). This includes, but is not limited to, aircraft requirements such as remote pilot-in-command certification, authorities and responsibilities; ensuring the sUAS is in a condition for safe operation; registration; understanding airspace classifications and requirements; and accident reporting (if applicable).

Notes:

Water Power Technologies Office

This NEPA Determination requires legal review of the tailored NEPA provision.

NEPA review completed by Emma Luther, 07/11/25

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: _____

 **Electronically
Signed By: Nicole Serio**

NEPA Compliance Officer

Date: 7/11/2025

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: _____