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U.S. DEPARTMENT OF ENERGY EERE PROJECT MANAGEMENT CENTER NEPA DETERMINATION



RECIPIENT: Ocean Renewable Power Company

STATE: ME

PROJECT

TITLE:

TidGen Power System Commercialization Project

DE-FOA-0000293

DE-EE0003647

Funding Opportunity Announcement Number Procurement Instrument Number NEPA Control Number CID Number

GFO-0003647-001

Based on my review of the information concerning the proposed action, as NEPA Compliance Officer (authorized under DOE Order 451.1A), I have made the following determination:

CX, EA, EIS APPENDIX AND NUMBER:

Description:

- A9 Information gathering (including, but not limited to, literature surveys, inventories, audits), data analysis (including computer modeling), document preparation (such as conceptual design or feasibility studies, analytical energy supply and demand studies), and dissemination (including, but not limited to, document mailings, publication, and distribution; and classroom training and informational programs), but not including site characterization or environmental monitoring.
- C12 Siting, construction, and operation of energy system prototypes including, but not limited to, wind resource, hydropower, geothermal, fossil fuel, biomass, and solar energy pilot projects.

Rational for determination:

DOE is proposing to provide federal funding to Ocean Renewable Power Company (ORPC) for the TidGen™ Power System Commercialization Project (TidGen Project), Federal funds would be applied to the entire project. The TidGen™ Project would be completed in two phases over a three-year period and would consist of designing, building, installing and monitoring a commercial-scale array of five grid-connected TidGenTM devices on the sea floor in Cobscook Bay off Lubec (near Eastport), Maine.

The Project's thirteen month first phase would consist of designing, building, installing, and commencing operations of the first TidGen Power System, interconnected with the Bangor Hydro Electric Company distribution grid. This first deployed TidGen Power System would include extensive equipment to collect environmental data and information regarding operating performance. During Phase 1, ORPC would perform detailed testing and monitoring of the local environment as well as all components and subsystems on the device.

Only after completion of all NEPA requirements and the Project passing a Go/No-go Decision point would DOE approve funding for Phase 2 activities.

During Phase 2, ORPC would continue operating, testing, monitoring and maintaining the first deployed system for a period of one year while also building, installing and integrating four additional TidGen devices. Power and control cables from the TidGen devices would be connected to an underwater consolidation box, and a single underwater power and control cable would connect the system to an electrical substation onshore. The four TidGen™ devices deployed during Phase 2 would be coupled together with the Phase 1 TidGen device to form an underwater array of five devices interconnected within a commercial-scale TidGen Power System, which would then continue to be operated, tested, monitored, inspected and maintained for a period of one year after integration.

Proposed Tasks:

Phase 1:

Task 1.0 Engineering & Design

Task 2.0 Procurement, Manufacture & Assembly

Task 3.0 Installation & Start-up

Subtask 3.1 Grid Interconnection

Task 4.0 Initial Testing

SIC	GNATURE OF THIS MEMORANDUM CONSTITUTES A RECORD OF THIS DECISION.
NE	PA Compliance Officer Signature: Date: 45 2011 NEPA Compliance Officer
FII	ELD OFFICE MANAGER DETERMINATION
Y	Field Office Manager review required
NC	O REQUESTS THE FIELD OFFICE MANAGER REVIEW FOR THE FOLLOWING REASON:
	Proposed action fits within a categorical exclusion but involves a high profile or controversial issue that warrants Field Office Manager's attention.
~	Proposed action falls within an EA or EIS category and therefore requires Field Office Manager's review and determination.
BA	SED ON MY REVIEW I CONCUR WITH THE DETERMINATION OF THE NCO:
Fie	Id Office Manager's Signature: Date: Date: