

To: Office of Planning and Research
PO Box 3044
1400 Tenth Street, Room 113
Sacramento, CA 95812-3044

From: California Energy Commission
1516 Ninth Street, MS-48
Sacramento, CA 95814

Project Applicant: DOE- Lawrence Berkeley National Laboratory

Project Title: Integrated Distributed Fiber Optic Sensing for Real-Time Monitoring of OWT Gearbox and Tower Operation and Marine Animal Activities

Project Location – Specific: 1 Cyclotron Rd

Project Location – City: Berkeley 94720

Project Location – County: Alameda

Description of Nature, Purpose and Beneficiaries of Project:

The project will develop and demonstrate a novel, distributed, high resolution fiber optic sensing (FOS) system based on Rayleigh and Brillouin backscattering for real time monitoring of gearbox and tower operation, and marine mammal activities near OWTs based on three-dimensional strain, vibration and temperature monitoring.

Name of Public Agency Approving Project: California Energy Commission

Name of Person or Agency Carrying Out Project: DOE- Lawrence Berkeley National Laboratory

Exempt Status: *(check one)*

- Ministerial Exemption (Pub. Resources Code § 21080(b)(1); Cal. Code Regs., tit 14, § 15268);
- Declared Emergency (Pub. Resources Code § 21080(b)(3); Cal. Code Regs., tit 14, § 15269(a));
- Emergency Project (Pub. Resources Code § 21080(b)(4); Cal. Code Regs., tit 14, § 15269(b)(c));
- Categorical Exemption. State type and section number
Cal. Code Regs., tit 14, § 15301
- Statutory Exemptions. State code number.
- Common Sense Exemption. (Cal. Code Regs., tit 14, §15061(b)(3))

Reasons why project is exempt:

Minor alteration at an existing laboratory facility to build a small-scale test setup to simulate an offshore wind turbine. The test apparatus will be used to develop sensor technology based on Rayleigh and Brillouin backscattering that will not result in any measurable change to the environment.

If field testing is conducted, it too, will only entail minor alterations to existing structures by installing small sensors on existing wind turbines. Any collected data will be transferred wirelessly and not through the installation of cables or other physical connecting devices between the sensors and data collection site. No environmental changes will occur with the installation or use of the sensors.

Lead Agency

Contact Person: Mike Kane **Area code/Telephone/Ext:** 916-327-1530

If filed by applicant:

1. Attach certified document of exemption finding.
2. Has a Notice of Exemption been filed by the public agency approving the project? Yes No

Signature: Mike Kane

Date: 6/17/2020

Title: CAM

Signed by Responsible Agency

Governor's Office of Planning & Research

Signed by Lead Agency

Jun 17 2020

Signed by Applicant

STATE CLEARINGHOUSE
Date received for filing at OPR: _____