



# **Item 11: Advancing Designs for Floating Offshore Wind Mooring Lines and Anchors – GFO-22-402**

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Mark Danielson, Senior Environmental Scientist  
Energy Research & Development Division (ERDD), Energy Generation  
Research Branch



# Benefit to Californians

Improve feasibility of floating offshore wind deployment in California by:

- Reducing fabrication and installation costs
- Facilitating technology readiness for California environment
- Minimizing potential environmental impacts



# Solicitation Overview

Three proposed awards to advance designs of floating offshore wind components totaling \$8,471,459.

1. Mooring line materials
2. Anchor designs
3. Shared mooring lines and anchors



## **EPC-23-005: University of Maine System acting through the University of Maine**



### **Design, Validation, and Certification of a Synthetic Mooring Line System for a 15+ MW Floating Wind Turbine in the Humboldt Bay Wind Energy Area**

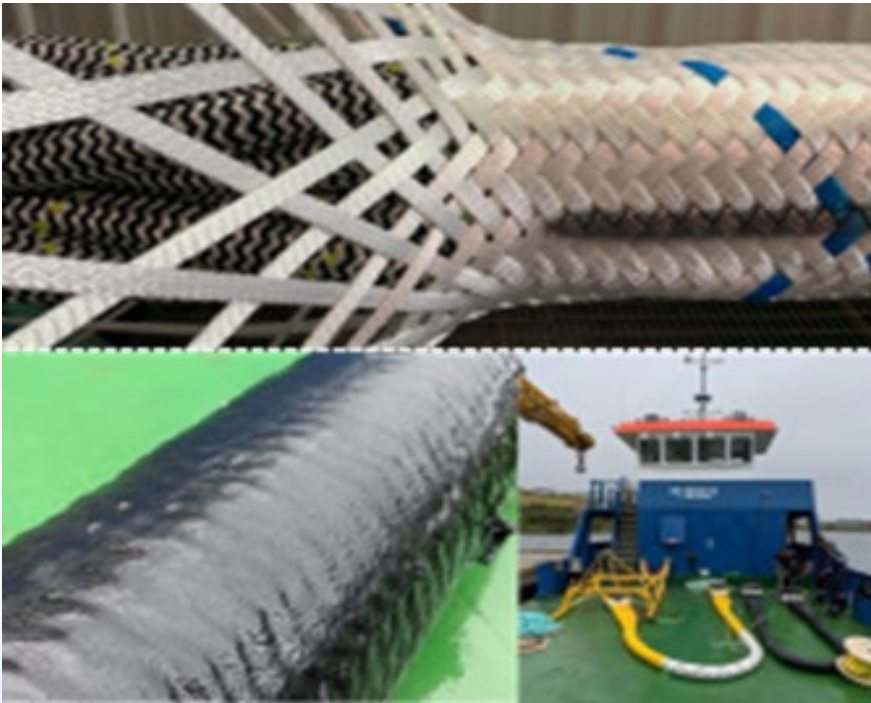


Photo credit: University of Maine

- New synthetic mooring system material
- Reduce hardware for easy installation and maintenance
- Industry acceptance verification



## EPC-23-003: RCAM Technologies, Inc.



### Low-Cost, Environmentally-Friendly, Concrete Anchors Made in California

- 3D concrete printing suction and torpedo anchor designs
- Local manufacturing
- Increase durability

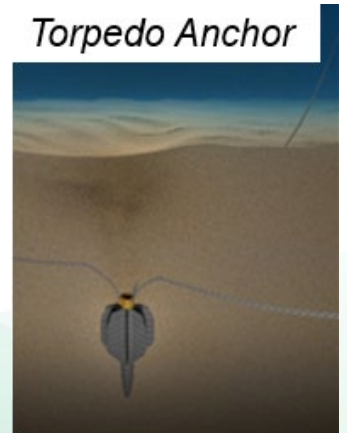
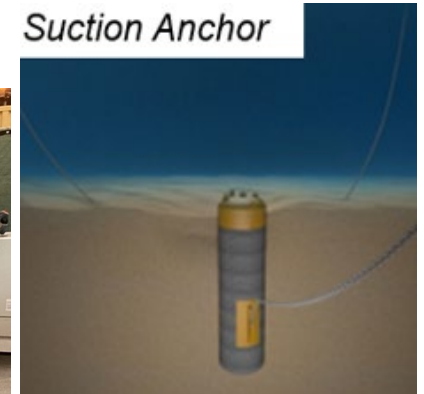


Photo credit: RCAM  
Technologies



# EPC-23-008: Alliance for Sustainable Energy LLC



## Comprehensive Shared-Mooring Solutions to Minimize the Cost, Risk, and Footprint of GW-Scale Floating Wind Farms

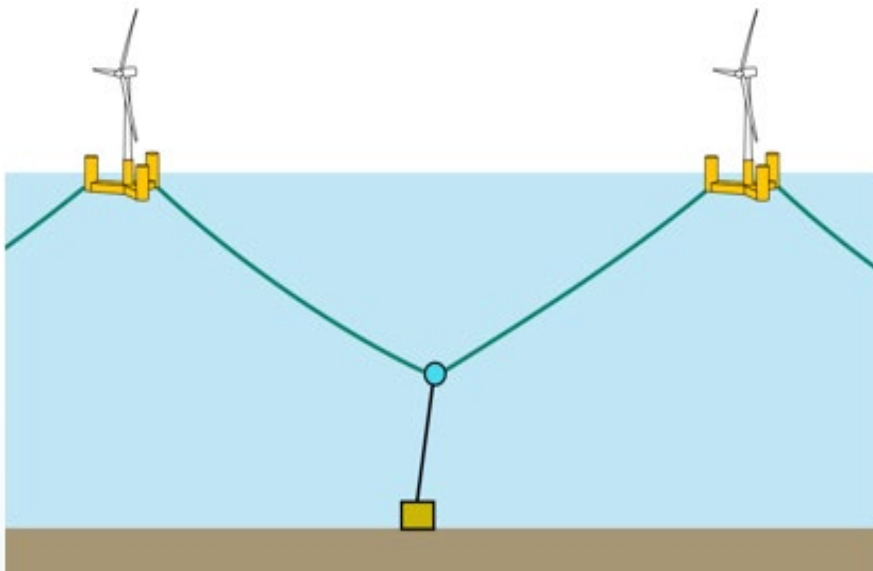


Photo credit: NREL

- Shared mooring and anchor configuration
- Installation and maintenance innovations
- Minimize costs, failure risks, and environmental impacts



# Staff Recommendation

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- Adopt staff's determination that action is exempt from CEQA
- Approve the three proposed awards under GFO-22-402