

# Consortium R&D Project Award Summary

1/22/2021

Pillar/Round	Technical Challenge Area	Proposal Title	Lead Proposer	Award Status
PON 4424 Pillar 1: Offshore Wind (OSW) Plant Technology Advancement	1.1: Array Performance and Control Optimization	Computational Control Co-design Approach for Offshore Wind Farm Optimization	Stony Brook University	Contract Executed
		Impact of Low Level Jets on Atlantic Coast Offshore Wind Farm Performance	General Electric	Contract Executed
		Reducing LCoE from Offshore Wind by Multiscale Wake Modeling	Cornell University	Contract Executed
		Wind Farm Control and Layout Optimization for U.S. Offshore Wind Farms	National Renewable Energy Laboratory	Contract Executed
	1.2: Cost-Reducing Turbine Support Structures for the U.S. Market	A Low-Cost Modular Concrete Support Structure and Heavy Left Vessel Alternative	RCAM Technologies	Contract Executed
		Demonstration of Shallow-Water Mooring Components for FOWTs (ShallowFloat)	Principle Power, Inc.	Award Negotiations*
	1.3: Floating Structure Mooring Concepts for Shallow and Deep Waters	Design and Certification of Taut-synthetic Moorings for Floating Wind Turbines	University of Maine	Contract Executed
		Dual-Functional Tuned Inerter Damper for Enhanced Semi-Sub Offshore Wind Turbine	Virginia Tech	Award Negotiations*
		Innovative Anchoring System for Floating Offshore Wind	Triton Systems, Inc.	Award Negotiations*
		Innovative Deepwater Mooring Systems for Floating Wind Farms (DeepFarm)	Principle Power, Inc.	Contract Executed
Shared Mooring Systems for Deep-Water Floating Wind Farms		National Renewable Energy Laboratory	Contract Executed	
1.4: Power System Design and Innovation Challenge Statement	Techno-Economic Mooring Configuration and Design for Floating Offshore Wind	UMass Amherst	Award Negotiations*	
PON 4424 Pillar 2: OSW Power Resource and Physical Site Characterization	2.1: Comprehensive Wind Resource Assessment	Development of Advanced Methods for Evaluating Grid Stability Impacts	National Renewable Energy Laboratory	Award Negotiations*
		2.2: Development of a Metocean Reference Site	A Validated National Offshore Wind Resource Dataset with Uncertainty Quantification	National Renewable Energy Laboratory
PON 4424 Pillar 3: Installation, O&M and Supply Chain Solutions	3.2: Offshore Wind Digitization Through Advanced Analytics	Development of a Metocean Reference Site near the MA & RI Wind Energy Areas	Woods Hole Oceanographic Institute	Contract Executed
		Enabling Condition Based Maintenance for Offshore Wind	General Electric	Award Negotiations*
		Physics Based Digital Twins for Optimal Asset Management	Tufts University	Contract Executed
		Radar Based Wake Optimization of Offshore Wind Farms	General Electric	Award Negotiations*
	3.3: Technology Solutions to Accelerate U.S. Supply Chain	Survival Modeling for Offshore Wind Prognostics	Tagup, Inc.	Award Negotiations*
30GW by 2035: Supply Chain Roadmap for Offshore Wind in the US		National Renewable Energy Laboratory	Award Negotiations*	
PON 4476 Round 1: Enabling Large Scale Turbines	R1C1: Enabling Fabrication and Installation of Future Foundations	Self-Installing Concrete Gravity-Base Substructure Sizing for 15MW Turbine	ESTEYCO SL	Award Negotiations*
		Vibratory-Installed Bucket Foundation for Fixed Foundation Offshore Wind Towers	Texas A&M	Award Negotiations*
	R1C2: Port and Marine Systems Innovation to Support Offshore Logistics	Feasibility of a Jones Act Compliant WTIV Conversion	Exmar Offshore Company	Award Negotiations*
		Tech. Validation of Existing US Barges as a Feeder Solution for US Offshore Wind	Crowley Maritime	Award Negotiations*
		Comparative Operability of Floating Feeder Solutions	MARIN USA	Award Negotiations*

\*Awards under negotiation remain tentative pending contract execution

