

# Consortium R&D Project Awardee List

Updated March 29, 2021

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

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MARIN USA	Comparative Operability of Floating Feeder Solutions	1	1.2	Port and Marine Systems Innovation To Support Offshore Logistics	A	Technical Feasibility Study	Award Negotiations*
Keystone Systems	Tapered Spiral Welding for US Offshore Wind Turbine Towers	1	2.2	US Supply Chain Development Through Innovation	B	New Product, Systems, Service or Strategy Development	Award Negotiations*
DEME Offshore US	TSPC Foundation Concept	1	2.1	Support Structure Solutions to Reduce Impact and Cost of Fixed and Floating Arrays	A	Technical Feasibility Study	Award Negotiations*
PCCI	Quarter Scale Testing of the Intelligent Mooring Systems for FOWT Platforms	1	2.1	Support Structure Solutions to Reduce Impact and Cost of Fixed and Floating Arrays	B	New Product, Systems, Service or Strategy Development	Award Negotiations*
ESTEYCO SL	Design Evolved Spar Concrete Substructure for Floating Offshore US-Based Design	1	2.1	Support Structure Solutions to Reduce Impact and Cost of Fixed and Floating Arrays	AB	Technical Feasibility Studies thru New Product, Systems, Service or Strategy Development	Award Negotiations*
Deep Reach Technology	Application of Novel Offshore Oil & Gas Platforms to Large Wind Turbines	1	2.1	Support Structure Solutions to Reduce Impact and Cost of Fixed and Floating Arrays	A	Technical Feasibility Study	Award Negotiations*
ULC Robotics	UAS to Transform Offshore Wind	1	2.3	Solutions to O&M Challenges	B	New Product, Systems, Service or Strategy Development	Award Negotiations*
GE Renewable Energy	Self-Positioning Single Blade Installation Tool	3	2.4	Safety System Innovation	BC	New Product, System, Services, or Strategy Development thru Demonstration of Technologies, Systems, or Services	Award Negotiations*
ThayerMahan	Transmission and Export Cable Fault Detection and Prevention Using Synthetic Aperture Sonar	1	3.1	Submarine Cable Innovation to Reduce Failures, Electrical Losses, and Cost	B	New Product, System, Service, or Strategy Development	Award Negotiations*
GE Research	DC Collection and Transmission for Offshore Wind Farms	2	3.2	Innovation in Transmission Hardware and Transmission Options to Reduce	A	Technical Feasibility Study	Award Negotiations*
Offshore Wind Consultants (AqualisBraemar)	Shared Landfill and Onshore Cable Infrastructure for Cable Colocation Feasibility Study	3	3.2	Innovation in Transmission Hardware and Transmission Options to Reduce	A	Technical Feasibility Study	Award Negotiations*
Tufts University	Transmission Expansion Planning Models for Offshore Wind Energy	3	3.3	Innovation or Strategies to Mitigate Grid System Impacts	B	New Product, System, Service, or Strategy Development	Award Negotiations*
Battelle Memorial Institute	An Offshore Wind Energy Development Strategy to Maximize Electrical System Benefits in Southern Oregon and Northern California	3	3.3	Innovation or Strategies to Mitigate Grid System Impacts	B	New Product, System, Service, or Strategy Development	Award Negotiations*
Worley Group	Technology Development Priorities for Scientifically Robust and Operationally Compatible Wildlife Monitoring and Adaptive Management	2	3.4	Technology Solutions to Mitigate Use Conflicts	A	Technical Feasibility Study	Award Negotiations*
Cornell University	Right Wind: Resolving Protected Species Space-Use Conflicts in Wind Energy Areas	2	3.4	Technology Solutions to Mitigate Use Conflicts	B	New Product, System, Service, or Strategy Development	Award Negotiations*
CODAR Ocean Sensors	Oceanographic HF Radar Data Preservation in Wind Turbine Interference Mitigation	2	3.4	Technology Solutions to Mitigate Use Conflicts	A	Technical Feasibility Study	Award Negotiations*

\*Awards under negotiation remain tentative pending contract execution