

The National Offshore Wind Research and Development Consortium Project List:

Awardee	Project Title	Technical Focus Area
GE Renewable Energy	Weld Assembly of Large Castings	Supply & Logistics
National Renewable Energy Laboratory (NREL)	Standardized Scalable Mooring Solutions Optimized for the U.S. Supply Chain	Supply & Logistics
Electric Power Research Institute (EPRI)	Verifying OSW Turbine Blade Integrity During Manufacture	Supply & Logistics
GE Research	Autonomous Vessel-Based Multi-Sensing System for Inspection and Monitoring	O&M & Safety
UMass Lowell	A Novel Structural Health Monitoring System for Offshore Wind Turbine	O&M & Safety
Dive Technologies	Fully Autonomous Subsea Asset Inspection by a Shore-Launched AUV	O&M & Safety
Business Network for Offshore Wind (BNOW) & NREL	30GW by 2030: Supply Chain Roadmap for Offshore Wind in the US	Supply & Logistics
RCAM Technologies	A Low-Cost Modular Concrete Support Structure and Heavy Lift Vessel Alternative	Fixed Structure Engineering
NREL	Development of Advanced Methods for Evaluating Grid Stability Impacts	Electrical Power Systems
Crowley	Technical Validation of Existing U.S. Flagged Barges as a “Feeder” Solution for the U.S. Offshore Wind Industry	Supply & Logistics
Exmar Offshore Company	Feasibility of a Jones Act Compliant WTIV Conversion	Supply & Logistics
ESTEYCO SL	Self-Installing Concrete Gravity-Base Substructure Sizing for 15MW Turbine	Fixed Structure Engineering
Texas A&M	Vibratory-Installed Bucket Foundation for Fixed Foundation Offshore Wind Towers	Fixed Structure Engineering
MARIN USA	Comparative Operability of Floating Feeder Solutions	Supply & Logistics
Pacific Northwest National Laboratory (PNNL)	An Offshore Wind Energy Development Strategy to Maximize Electrical System Benefits in Southern Oregon and Northern California	Electrical Power Systems
GE Research	DC Collection and Transmission for Offshore Wind Farms	Electrical Power Systems
Tufts University	Transmission Expansion Planning Models for Offshore Wind Energy	Electrical Power Systems

CODAR Ocean Sensors LTD	Oceanographic HF Radar Data Preservation in Wind Turbine Interference Mitigation	Environmental & Conflicting Use
Offshore Wind Consultants	Shared Landfall and Onshore Cable Infrastructure for Cable Colocation Feasibility Study	Electrical Power Systems
Advisian	Technology Development Priorities for Scientifically Robust and Operationally Compatible Wildlife Monitoring and Adaptive Management	Environmental & Conflicting Use
Cornell University	Right Wind: Resolving Protected Species Space-Use Conflicts in Wind Energy Areas	Environmental & Conflicting Use
ThayerMahan	Transmission and Export Cable Fault Detection and Prevention Using Synthetic Aperture Sonar	Electrical Power Systems
Keystone Tower Systems	Tapered Spiral Welding for US Offshore Wind Turbine Towers	Fixed Structure Engineering
DEME Offshore US LLC	TSPC Foundation Concept	Fixed Structure Engineering
PCCI, Inc.	Quarter Scale Testing of the Intelligent Mooring System for FOWT Platforms	Floating Structure Engineering
ESTEYCO	Evolved Spar Concrete Substructure for Floating Offshore Wind US-Based Design	Floating Structure Engineering
Deep Reach Technology	Application of Novel Offshore Oil & Gas Platforms to Large Wind Turbines	Fixed Structure Engineering
ULC Robotics	UAS to Transform Offshore Wind	O&M & Safety
GE Renewable Energy	Self-Positioning Single Blade Installation Tool	O&M & Safety
Virginia Tech	Dual-Functional Tuned Inerter Damper for Enhanced Semi-Sub Offshore Wind Turbine	Floating Structure Engineering
NREL	Shared Mooring Systems for Deep-Water Floating Wind Farms	Floating Structure Engineering
Principle Power, Inc.	Innovative Deepwater Mooring Systems for Floating Wind Farms (DeepFarm)	Floating Structure Engineering
NREL	A Validated National Offshore Wind Resource Dataset with Uncertainty Quantification	Wind Resource & Site Characterization
Stony Brook University	Computational Control Co-design Approach for Offshore Wind Farm Optimization	Fixed Structure Engineering

GE Research	Impact of Low Level Jets on Atlantic Coast Offshore Wind Farm Performance	Wind Resource & Site Characterization
Cornell University	Reducing LCoE from Offshore Wind by Multiscale Wake Modeling	Wind Resource & Site Characterization
NREL	Wind Farm Control and Layout Optimization for U.S. Offshore Wind Farms	Fixed Structure Engineering
Principle Power Inc.	Demonstration of Shallow-Water Mooring Components for FOWTs (ShallowFloat)	Floating Structure Engineering
Tagup Inc.	Survival Modeling for Offshore Wind Prognostics	O&M & Safety
UMass Amherst	Techno-Economic Mooring Configuration and Design for Floating Offshore Wind	Floating Structure Engineering
GE Research	Enabling Condition Based Maintenance for Offshore Wind	O&M & Safety
Virginia Tech	Dual-Functional Tuned Inerter Damper for Enhanced Semi-Sub Offshore Wind Turbine	Floating Structure Engineering
Triton Systems, Inc	Innovative Anchoring System for Floating Offshore Wind	Floating Structure Engineering
University of Maine	Design and Certification of Taut-synthetic Moorings for Floating Wind Turbines	Floating Structure Engineering
WHOI	Development of a Metocean Reference Site near the MA & RI Wind Energy Areas	Wind Resource & Site Characterization
GE Research	Radar Based Wake Optimization of Offshore Wind Farms	O&M & Safety
Tufts University	Physics Based Digital Twins for Optimal Asset Management	O&M & Safety