

## The National Offshore Wind Research and Development Consortium Project List:

	Awardee	Project Title	Technical Focus Area
1	NREL	Development of Advanced Methods for Evaluating Grid Stability Impacts	Electrical Power Systems
2	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
3	GE Research	DC Collection and Transmission for Offshore Wind Farms	Electrical Power Systems
4	Tufts University	Transmission Expansion Planning Models for Offshore Wind Energy	Electrical Power Systems
5	Offshore Wind Consultants	Shared Landfall and Onshore Cable Infrastructure for Cable Colocation Feasibility Study	Electrical Power Systems
6	ThayerMahan	Transmission and Export Cable Fault Detection and Prevention Using Synthetic Aperture Sonar	Electrical Power Systems
7	University of Michigan	Robust Stabilization of Subsea Power Cables using Nonlinear Energy Sinks	Electrical Power Systems
8	Clarkson University	Atlantic seaboard offshore stability risk evaluation & service	Electrical Power Systems
9	Rutgers University	AIRU-WRF: AI-powered Physics-based Tool for OSW Forecasting and Grid Integration	Electrical Power Systems
10	CODAR Ocean Sensors LTD	Oceanographic HF Radar Data Preservation in Wind Turbine Interference Mitigation	Environmental & Conflicting Use
11	Advisian	Technology Development Priorities for Scientifically Robust and Operationally Compatible Wildlife Monitoring and Adaptive Management	Environmental & Conflicting Use
12	Cornell University	Right Wind: Resolving Protected Species Space-Use Conflicts in Wind Energy Areas	Environmental & Conflicting Use
13	Saildrone	Renewable Powered, Uncrewed Mobile Assets to Monitor Protected Marine Mammals	Environmental & Conflicting Use
14	NREL	Co-Design Solutions for U.S. Floating Offshore Wind and Fishing Compatibility	Environmental & Conflicting Use
15	RCAM Technologies	A Low-Cost Modular Concrete Support Structure and Heavy Lift Vessel Alternative	Fixed Structure Engineering
16	ESTEYCO SL	Self-Installing Concrete Gravity-Base	Fixed Structure

		Substructure Sizing for 15MW Turbine	Engineering
17	Texas A&M	Vibratory-Installed Bucket Foundation for Fixed Foundation Offshore Wind Towers	Fixed Structure Engineering
18	Keystone Tower Systems	Tapered Spiral Welding for US Offshore Wind Turbine Towers	Fixed Structure Engineering
19	DEME Offshore US LLC	TSPC Foundation Concept	Fixed Structure Engineering
20	Deep Reach Technology	Application of Novel Offshore Oil & Gas Platforms to Large Wind Turbines	Fixed Structure Engineering
21	Stony Brook University	Computational Control Co-design Approach for Offshore Wind Farm Optimization	Fixed Structure Engineering
22	NREL	Wind Farm Control and Layout Optimization for U.S. Offshore Wind Farms	Fixed Structure Engineering
23	PCCI, Inc.	Quarter Scale Testing of the Intelligent Mooring System for FOWT Platforms	Floating Structure Engineering
24	ESTEYCO	Evolved Spar Concrete Substructure for Floating Offshore Wind US-Based Design	Floating Structure Engineering
25	NREL	Shared Mooring Systems for Deep-Water Floating Wind Farms	Floating Structure Engineering
26	Principle Power, Inc.	Innovative Deepwater Mooring Systems for Floating Wind Farms (DeepFarm)	Floating Structure Engineering
27	Principle Power Inc.	Demonstration of Shallow-Water Mooring Components for FOWTs (ShallowFloat)	Floating Structure Engineering
28	UMass Amherst	Techno-Economic Mooring Configuration and Design for Floating Offshore Wind	Floating Structure Engineering
29	Virginia Tech	Dual-Functional Tuned Inerter Damper for Enhanced Semi-Sub Offshore Wind Turbine	Floating Structure Engineering
30	Triton Systems, Inc	Innovative Anchoring System for Floating Offshore Wind	Floating Structure Engineering
31	University of Maine	Design and Certification of Taut-synthetic Moorings for Floating Wind Turbines	Floating Structure Engineering
32	GE Research	Autonomous Vessel-Based Multi-Sensing System for Inspection and Monitoring	O&M & Safety
33	UMass Lowell	A Novel Structural Health Monitoring System for Offshore Wind Turbine	O&M & Safety
34	Dive Technologies	Fully Autonomous Subsea Asset Inspection by a Shore-Launched AUV	O&M & Safety
35	ULC Robotics	UAS to Transform Offshore Wind	O&M & Safety
36	GE Renewable Energy	Self-Positioning Single Blade Installation Tool	O&M & Safety
37	Tagup Inc.	Survival Modeling for Offshore Wind	O&M & Safety

		Prognostics	
38	GE Research	Enabling Condition Based Maintenance for Offshore Wind	O&M & Safety
39	GE Research	Radar Based Wake Optimization of Offshore Wind Farms	O&M & Safety
40	Tufts University	Physics Based Digital Twins for Optimal Asset Management	O&M & Safety
41	GE Renewable Energy	Weld Assembly of Large Castings	Supply & Logistics
42	National Renewable Energy Laboratory (NREL)	Standardized Scalable Mooring Solutions Optimized for the U.S. Supply Chain	Supply & Logistics
43	Electric Power Research Institute (EPRI)	Verifying OSW Turbine Blade Integrity During Manufacture	Supply & Logistics
44	Business Network for Offshore Wind (BNOW) & NREL	30GW by 2030: Supply Chain Roadmap for Offshore Wind in the US	Supply & Logistics
45	Crowley	Technical Validation of Existing U.S. Flagged Barges as a "Feeder" Solution for the U.S. Offshore Wind Industry	Supply & Logistics
46	Exmar Offshore Company	Feasibility of a Jones Act Compliant WTIV Conversion	Supply & Logistics
47	MARIN USA	Comparative Operability of Floating Feeder Solutions	Supply & Logistics
48	NREL	A Validated National Offshore Wind Resource Dataset with Uncertainty Quantification	Wind Resource & Site Characterization
49	GE Research	Impact of Low Level Jets on Atlantic Coast Offshore Wind Farm Performance	Wind Resource & Site Characterization
50	Cornell University	Reducing LCoE from Offshore Wind by Multiscale Wake Modeling	Wind Resource & Site Characterization
51	WHOI	Development of a Metocean Reference Site near the MA & RI Wind Energy Areas	Wind Resource & Site Characterization
52	Northeastern University	Ensuring Long-Term Availability and Bankability of Offshore Wind Through Hurricane Risk Assessment and Mitigation	Wind Resource and Site Characterization