

# Statement of Qualifications Marine Acoustic Services

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***Submitted by:***



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## 1.0 Overview of INSPIRE Environmental, a Venterra Group Company

INSPIRE Environmental (INSPIRE), a Venterra Group company, is a marine science consultancy supporting offshore energy and subsea resource development worldwide. Our team has supported approximately 70% of U.S. offshore wind projects, representing about 27 GW in development, construction, and operation. Built on a heritage of environmental work for offshore oil and gas, dredged material management, and contaminated sediment sites, INSPIRE delivers rigorous science and practical insight to help developers and operators advance complex offshore projects with confidence.

With offices in Newport, Rhode Island and Aberdeen, Scotland, INSPIRE combines deep U.S. experience with international offshore expertise. As part of Venterra Group, we work alongside more than 600 specialists delivering end-to-end offshore energy services across the asset lifecycle. This integration allows us to bring transferable expertise from site characterization through construction and decommissioning, helping clients reduce risk and improve performance at every stage of project development.

**Trusted Science** – INSPIRE leads Venterra’s Environmental Service Line, delivering high-integrity assessments and monitoring for complex marine environments.

**Effective Decision-Making** – We pair innovative data collection with compelling visuals to support efficient permitting and informed stakeholder engagement.

**Global Reach** – With offices in the United States and the United Kingdom, and as part of Venterra’s global network, we deliver local expertise with international reach.

**Reliable Delivery** – Our commitment to safety, quality, and environmental justice ensures responsible, risk-reducing performance from start to finish.

***There are live links throughout this document that lead to additional information.***

## 2.0 Marine Acoustics Expertise

We provide specialist desktop underwater acoustic modelling, impact assessment, and pre-construction decision-making services in support of offshore energy and marine infrastructure development, regulatory permitting, and mitigation optimization. We support developers, installers, engineers, and environmental consultants with scientifically robust, regulator-defensible modelling assessments that:

- Reduce permitting/consenting risk
- Optimize construction methodologies and sequencing
- Inform proportionate, evidence-based mitigation design

- Withstand technical and regulatory scrutiny

Our acoustic team is integrated within a broader marine science platform spanning soft-sediment and hard-structure ecology, fisheries science, and Nature-Based Design. The result: focused, defensible acoustic assessments that anticipate regulatory scrutiny and support efficient project delivery.

## 2.1 [VAST: Vibroacoustic Analysis and Simulation Tool](#)

VAST is Venterra's 3D physics-based Vibroacoustic Analysis Simulation Tool, engineered to model sound and vibration as they travel through air, water, and layered seabed sediments. By resolving coupled acoustic–elastic pathways across all media, VAST reveals how energy truly propagates—providing the clarity needed to determine which mitigation measures are most effective, and why.

### 2.1.1 Offshore Infrastructure Sound Source Expertise

We model all major offshore construction and operational sound sources and propagation of acoustics and particle motion vibrations through air, water, and sediment, including but not limited to:

#### Construction & Development

- **Foundation Installation:** Impact pile driving (monopiles, jacket pin piles, sheet piles), vibratory piling, and drilled/socketed foundations.
- **Geophysical Surveys:** High-resolution site characterization and seismic air gun arrays.
- **Subsea Infrastructure:** Cable and pipeline installation (trenching, jetting, and ploughing).
- **Site Preparation:** UXO clearance and controlled underwater explosives.
- **Dredging & Excavation:** Cutter suction, trailing suction hopper dredging, and seabed mineral harvesting tools.



#### Operational & Long-Term Sources

- **Energy Production:** Wind turbine operational vibration.
- **Extraction Activities:** Vertical transport systems (risers) and seabed mineral processing units.

- **Vessel Dynamics:** Operations and maintenance (O&M) traffic, dynamic positioning (DP) thruster noise, and large-scale transport shipping.
- **Decommissioning:** Mechanical cutting, abrasive water jets, and structural removal explosives.

### 2.1.2 Technical Differentiator: Seabed-Coupled Propagation

INSPIRE couples water column and sediment vibroacoustic propagation, including sediment-borne energy transmission that generates interface (e.g., Scholte) waves and their potential impacts.

We incorporate geoacoustic parameters like shear wave speed, density, and attenuation into range-dependent models to improve prediction accuracy in shallow shelf environments where most offshore infrastructure projects occur.

This allows us to better evaluate:

- Near-field sound propagation
- Waterborne versus seabed-coupled energy pathways
- Foundation-type acoustic behavior
- Installation-method-dependent sound fields
- Mitigation effectiveness

## 2.2 Integrated Acoustic Risk Assessment

INSPIRE integrates acoustic modelling outputs into a structured ecological risk assessment framework aligned with contemporary offshore energy and marine infrastructure regulatory practice. We apply this semi-quantitative matrix framework integrating vulnerability and exposure severity to characterize relative biological risk in a transparent and repeatable manner, strengthening defensibility and reducing review delays. The framework includes the following assessments.

- Local Species Vulnerability Assessment
- Exposure Severity Assessment
- Spectral & Masking Analysis
- Cumulative & Scenario Testing



- Uncertainty & Confidence

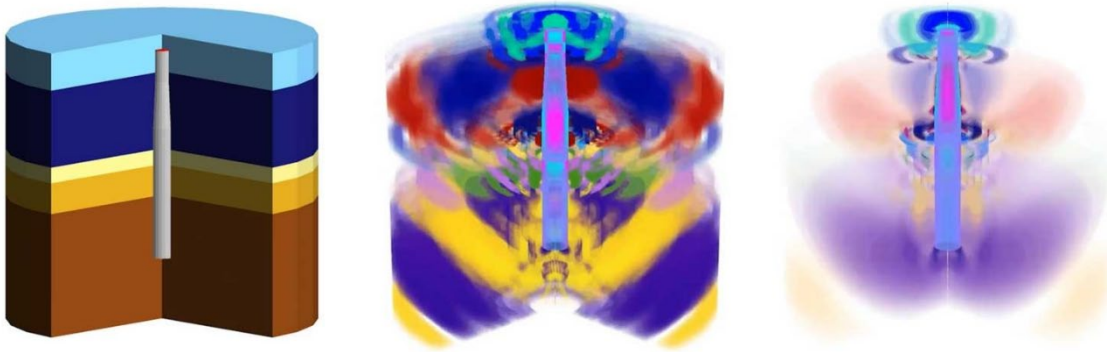
### 2.3 Strategic Mitigation Evaluation

As part of our modelling services, we evaluate and compare:

- Bubble curtain systems
- Hydro sound dampers and attenuation technologies
- Alternative foundation installation and construction methods
- Installation sequencing strategies

Our goal is to balance environmental compliance with construction efficiency and cost control — identifying mitigation measures that are effective, technically defensible, and proportionate to assessed biological risk.

### 2.4 Digital Twin & Acoustic Visualization



INSPIRE extends traditional acoustic modelling through digital twin integration, advanced visualization, and animation – transforming complex sound field outputs into interactive, decision-ready tools. This enables developers and regulators to explore “what happens if” scenarios and understand acoustic risk before decisions are locked in.

We convert model results into virtual reality, dynamic spatial representations that allow developers and regulators to see how sound propagates through the marine environment over space and time depending on the scenario design.

Our digital capabilities include:

- 3D animated sound field visualizations across bathymetry and within the water column
- Time-sequenced modelling of installation and mitigation scenarios
- Integration of acoustic outputs into GIS-based digital twin platforms

- Regulator-ready visual tools for EIA and consultation

This approach enhances understanding of sound pathways, risk assessments, mitigation performance, and cumulative exposure dynamics, while improving decision-making, regulatory clarity, and communication with non-technical stakeholders.

## 2.5 Regulatory & EIS/EIA Integration



INSPIRE supports all stages of environmental review across offshore energy and marine infrastructure projects, including:

- Environmental Impact Statement (EIS) and Environmental Impact Assessment (EIA) technical chapters and appendices
- Construction Method Statement and mitigation plan inputs
- Marine Mammal Protection Plan (MMMP) support and similar receptor-specific documentation
- Regulatory consultation support, responses, and technical clarifications

Our assessments align with international and regional offshore energy and marine infrastructure guidance, including:

- Marine mammal injury and behavioral disturbance criteria
- Fish and invertebrate particle motion sensitivities
- Cumulative effects requirements
- Transboundary considerations
- Marine protected areas
- Evidence-based assessment expectations

We emphasize defensible assumptions, proportional analysis, and documentation that integrate seamlessly into larger EIA and consenting submissions.

### 3.0 Marine Acoustics Leadership and Staff

Our Marine Acoustics practice is led by industry-recognized experts who oversee our integrated acoustics team, coordinating a global network of engineers and data scientists, ensuring every project benefits from both senior-level strategy and robust technical support.



**Kathy Vigness-Raposa, PhD, VP of Technical Services.** Kathy's expertise in bioacoustics is driving the development of INSPIRE and Venterra's marine acoustics practice. Providing leadership for our science and technical teams, Kathy's interest and experience in understanding the impacts of anthropogenic activity in the marine environment supports critical decision-making throughout the lifecycle of offshore projects.



**Cristian Graupe, PhD, Senior Scientist Marine Acoustics.** Cristian is an ocean engineer with expertise in acoustics and signal processing, including modelling acoustic propagation in complicated environments, detecting bioacoustics signatures, and applying machine learning to solve complex problems in data processing. Cristian has years of experience deploying systems to collect acoustic data for sound field analysis and passive acoustic monitoring to support offshore industry.



**Alex Rhoads, MS, Data Specialist II and Statistics.** Alex earned her graduate degree with a focus on deep-sea passive acoustics and spatial statistics. She applies advanced statistical techniques to complex acoustic and multidisciplinary datasets, supporting the analysis of INSPIRE's marine acoustics programs. Alex's deep interest in data and keen eye for patterns help ensure that INSPIRE's acoustic data management, analysis workflows, and quality control procedures remain best-in-class.



**Steve Sabo, BA, Image Specialist II and Graphic Designer.** Steve combines visual storytelling with scientific rigor to help translate complex marine data into clear, compelling graphics. Steve combines visual storytelling with scientific rigor to translate complex marine data into clear graphics. In addition to creating visuals for reports, presentations, and marketing, he supports INSPIRE's marine acoustics team by preparing and visualizing datasets used in acoustic modeling and analysis.



**Kelsey Brown, MS, Data Specialist.** Kelsey oversees INSPIRE's stringent data quality control procedures and processes data from client surveys, including marine acoustics datasets. She supports report production and ensures that acoustic and environmental data are collected, processed, and stored according to company standards. Kelsey's background in marine environmental planning means she is well versed in preparing environmental documentation in line with national regulations.



**João Kastrup, BA, Data Analyst.** A member of Team Data, João focuses on automated data processing and the development of advanced visualization tools for complex marine datasets. He works with marine acoustic data as well as other environmental survey data, applying diverse data analysis and GIS mapping techniques to transform raw information into clear, interpretable visuals. By collaborating closely with INSPIRE's scientists, João helps ensure that complex datasets are accessible, insightful, and effectively communicated.

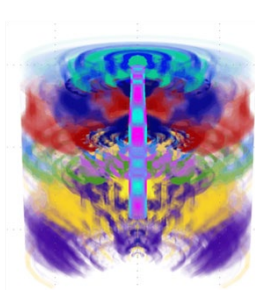
#### 4.0 Marine Acoustics Representative Projects



##### [Comparative Acoustic Impacts of Impact and Vibratory Pile Driving.](#)

INSPIRE is developing a detailed acoustic source model to compare the effects of impact and vibratory pile driving on sensitive marine species. Using advanced finite element and acoustic propagation modeling, we analyze how sound from different hammer types and pile geometries propagate through the marine environment. These sound fields inform species-specific behavioral models to

estimate exposure probabilities under current U.S. regulatory thresholds. The results will be presented in a white paper highlighting differences between impact and vibratory noise analyses, key sensitivity parameters, and regulatory implications for offshore wind construction.



**[Sediment-borne Vibrations.](#)** We're partnering with Scripps Institution of Oceanography and the University of Rhode Island to study how offshore pile installation methods generate vibrational waves in seafloor sediments—waves that may affect benthic species like crabs, scallops, and lobsters. By combining acoustic modeling, SPI/PV imagery, and benthic habitat mapping, we aim to better understand how these vibrations travel through sediments and their potential ecological impacts on seafloor communities.

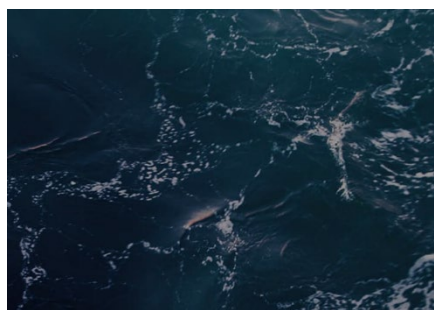
**[Rosslare Europort Offshore Renewable Energy \(ORE\) Hub Project.](#)** Our acoustic team performed acoustic modelling for pile installation to support the Rosslare Europort ORE Hub

harbour expansion. Our marine mammal experts and acoustic analysts processed passive acoustic data from FPODS and Soundtraps deployed near the project area. Our team prepared a marine mammal impact assessment chapter and technical appendix for an environmental impact assessment report to support the project.

**Discovery of Sound in the Sea (DOSITS).** The Discovery of Sound in the Sea (DOSITS) website was developed by the University of Rhode Island's Graduate School of Oceanography in partnership with INSPIRE Environmental, with INSPIRE Principal Scientist Dr. Kathleen Vigness-Raposa serving as a co-creator. Widely recognized as one of the world's most valuable educational resources on marine acoustics, the site contains more than 500 pages covering the science and uses of underwater sound, including sections on sound physics, human uses of sound, and animal responses. DOSITS also hosts audio and technology galleries, resources for educators and decision makers, and a free annual international webinar series on ocean acoustics. The site was developed with support from the U.S. Office of Naval Research, National Science Foundation, NOAA, the E&P Sound & Marine Life Joint Industry Programme, and the International Association of Geophysical Contractors.



**PURE WIND Operational Turbine Noise.** To support the UN Decade of Ocean Science, our team developed **PURE WIND**—a comprehensive underwater noise model that estimates sound levels across all phases of offshore wind development, with a focus on turbine operational noise. Using advanced parabolic equation and ray-tracing algorithms, the model simulates sound propagation in complex marine environments and accounts for various sources from surveys to decommissioning. **PURE WIND** helps assess potential biological impacts and supports regulatory compliance with built-in adaptive mitigation guidance.



**Noise Modelling for SONAR Sources in the North Sea.**

Offshore energy companies routinely conduct underwater acoustic activities in the Danish North Sea, often using equipment such as multi-beam echosounders, sub-bottom profilers, and side-scan SONAR accompanied by ultra-short baseline acoustic positioning systems. Our team was hired to perform acoustic modelling and assess the potential impacts that various acoustic survey equipment may have on marine mammals and fish. Examples for each type of acoustic survey equipment were characterized with a spectrum and beam pattern and were modelled as a stationary or moving source in order to predict the sound fields resulting from different use-cases. Predicted sound levels were compared to regulatory thresholds to assess the extent of noise impacts for various marine mammal hearing groups and fish.

## **Appendix A – Offshore Wind and Subsea Transmission Projects**

Table 1 highlights all survey work conducted and reporting produced by our team to support offshore wind permitting, development, and monitoring.

Table 2 highlights our subsea cable experience associated with the offshore wind projects presented in Table 1. Our team's work has contributed to the successful delivery of subsea cable scopes by providing high-resolution data, regulatory support, and informed technical guidance tailored to project-specific needs.

**Table 1. Surveys and Reports INSPIRE has Completed to Support Offshore Wind Permitting, Development, and Monitoring**

Site	Region	State	Client	Surveys/Studies Conducted by INSPIRE*	Sample Type	Survey Date	Technical Reports, Monitoring Plans, Protocols, Peer-Reviewed Publications, and Regional/State Reports Supporting Offshore Wind Permitting, Development, and Monitoring*	
							Title	Report Date
<b>Gulf of Maine</b>								
Maine Research Array	Gulf of Maine	ME	MeRA	-	N/A	N/A	Maine Research Array Benthic Survey Protocol	2023
				Benthic and Desktop Study	SPI/PV, SAV	Under contract	1. Benthic Assessment Technical Data Report* 2. Benthic Habitat Mapping Report to Support the Essential Fish Habitat (EFH) Consultation Report*	-
<b>Gulf of Mexico</b>								
Gulf Wind Offshore Wind Projects 1 & 2	Gulf of Mexico	TX	Hecate Energy	Desktop Study	N/A	N/A	Lease Applications Support Wind Energy Areas I and WEAs C and D - Desktop Review of Data Layers in the Corpus Christi Bay Area	2024
<b>Mid-Atlantic Bight</b>								
Coastal Virginia Offshore Wind	Mid-Atlantic Bight	VA	Siemens Gamesa	Above and Below Waterline Foundation Marine Growth Monitoring Surveys	PV, Video	10-11/2020	1. 2020 Coastal Virginia Offshore Wind (CVOW) Above Waterline Marine Growth Monitoring Survey Data Report 2. 2020 Coastal Virginia Offshore Wind (CVOW) Below Waterline Marine Growth Monitoring Survey Data Report	2020
				Above Waterline Foundation Marine Growth Monitoring Surveys	Video	7/2021	2021 Coastal Virginia Offshore Wind (CVOW) Above Waterline Marine Growth Monitoring Survey Data Report	2021
				Above and Below Waterline Foundation Marine Growth Monitoring Surveys	SPI/PV, Video	8/2022	2022 Coastal Virginia Offshore Wind (CVOW) Above and Below Waterline Marine Growth Monitoring Survey Data Report	2022
				Above and Below Waterline Foundation Marine Growth Monitoring Surveys	Video	8/2023	2023 Coastal Virginia Offshore Wind (CVOW) Foundation Monitoring Survey Data Report	2023
				Above and Below Waterline Foundation Marine Growth Monitoring Surveys	SPI/PV, Video	7/2024	2024 Coastal Virginia Offshore Wind (CVOW) Marine Growth Survey Data Report	2024
				Above and Below Waterline Foundation Marine Growth Monitoring Surveys	SPI/PV, Video	6/2025	2025 Coastal Virginia Offshore Wind (CVOW) Marine Growth Survey Data Report	2025
				Fishing Gear Monitoring Survey	Video	12/2025 1/2026	2025 Coastal Virginia Offshore Wind Commercial Project Fishing Gear Survey Report	2026
Skipjack Wind	Mid-Atlantic Bight	DE MD	Oceaneering	Lease Area and Export Cable Route(s) Survey	SPI/PV	11/2018	1. Benthic Resources Characterization Report 2. Commercial and Recreational Fisheries Affected Environment and Potential Impacts COP Section and Technical Report	2019 2020
Skipjack Wind	Mid-Atlantic Bight	DE MD	Stantec	Benthic Habitat Mapping Survey	SPI/PV, Video	5/2020	Benthic Habitat Mapping Report	2020

Site	Region	State	Client	Surveys/Studies Conducted by INSPIRE*	Sample Type	Survey Date	Technical Reports, Monitoring Plans, Protocols, Peer-Reviewed Publications, and Regional/State Reports Supporting Offshore Wind Permitting, Development, and Monitoring*	
							Title	Report Date
				Lease Area and Export Cable Route(s) (Sept 2021) and Submerged Aquatic Vegetation (SAV) Survey (Aug 2021)	SPI/PV, Video, Sediment Grabs	8/2021, 9/2021	1. Benthic Resources Characterization Report 2021 Benthic Assessment Survey - COP Appendix M1	2025
			2. Benthic Habitat Mapping to Support EFH Consultation Report - COP Appendix M2				2025	
			3. Essential Fish Habitat Affected Environment and Potential Impacts COP Section				2022	
							4. Benthic and Shellfish Affected Environment and Potential Impacts COP Section	2022
				-	N/A	N/A	Benthic Survey Protocol	2021
				-	N/A	N/A	Benthic Monitoring Plan	2023
<b>NY Bight</b>								
Atlantic Shores Offshore Wind - Bight	NY Bight	NY NJ	EDR	-	SPI/PV (Analysis)	N/A	Benthic Resources Characterization Report for Atlantic Shores Offshore Wind Bight Lease Area 0541 and Offshore Export Cable Corridor – Federal Waters	2025
				-	SPI/PV (Analysis)	N/A	Benthic Habitat Mapping Report to Support the Essential Fish Habitat (EFH) Consultation Atlantic Shores Offshore Wind Bight	2025
				-	N/A	N/A	Essential Fish Habitat Assessment Technical Report*	*
Attentive Offshore Wind	NY Bight	NY	Attentive Energy	Forward Scouting® Export Cable Route(s) Survey	SPI/PV and Pogo PV	9/2022, 10/2022	Forward Scouting® Summary Memo	2022
Bluepoint Wind	NY Bight	NY NJ	Tetra Tech	Lease Area and Export Cable Route(s) Survey	SPI/PV, Video, Sediment Grabs	4-5/2023	1. Benthic Resources Characterization Report 2023 Benthic Assessment Survey - Appendix O-1	2024
				2. Benthic Habitat Mapping Report to Support Essential Fish Habitat Consultation - Appendix O-2	2024			
				Desktop Study	N/A	N/A	Bluepoint Wind Benthic Desktop Study	2023
				-	N/A	N/A	Bluepoint Wind Benthic Survey Protocol	2023
Community Offshore Wind	NY Bight	NYNJ	Stantec	-	N/A	N/A	Endangered Species Act (ESA)-Listed Fish Species Monitoring Plan, Community Offshore Wind Project - Appendix O-2*	-
				-	N/A	N/A	Community Offshore Wind Benthic Survey Protocol	2023
				-	N/A	N/A	Fisheries and Benthic Monitoring Plan - Appendix W2	2024
				-	N/A	N/A	Benthic Resources Characterization Report Community Offshore Wind Project - Appendix M1 and Benthic Resources Affected Environment and Potential Impacts COP Section	2024
				-	N/A	N/A	Benthic Habitat Mapping Report to Support the Essential Fish Habitat (EFH) Consultation Community Offshore Wind Project - Appendix M2	2024
				-	N/A	N/A	Technical Information to Support the Essential Fish Habitat (EFH) Consultation Community Offshore Wind Project - Appendix N	2024

Site	Region	State	Client	Surveys/Studies Conducted by INSPIRE*	Sample Type	Survey Date	Technical Reports, Monitoring Plans, Protocols, Peer-Reviewed Publications, and Regional/State Reports Supporting Offshore Wind Permitting, Development, and Monitoring*	
							Title	Report Date
				-	N/A	N/A	Benthic, Invertebrate, Finfish, and EFH Affected Environment and Potential Impacts COP Section	2024
Empire Wind	NY Bight	NY	Equinor	Export Cable Route(s) Survey	SPI/PV	11/2019	Benthic Assessment Survey of Proposed Export Cable Routes in Support of the Equinor Wind OCS-A 0512 Offshore Wind Farm Project Data Report	2019
				Baited Underwater Remote Video (BRUV) and Environmental (eDNA) Survey	BRUV, Water Sampling	7/2023, 9/2023, 12/2023	Empire Wind 2023 Baited Underwater Remote Video (BRUV) and Environmental DNA (eDNA) Monitoring Survey Annual Report	2024
				Baited Underwater Remote Video (BRUV) and Environmental (eDNA) Survey	BRUV, Water Sampling	3/2024, 6/2024, 9/2024, 12/2024	Empire Wind 2024 Baited Remote Underwater Video (BRUV) and Environmental DNA (eDNA) Monitoring Survey Annual Report	2025
				Baited Underwater Remote Video (BRUV) and Environmental (eDNA) Survey	BRUV, Water Sampling	3/2025, 6/2025, 9/2025	Empire Wind 2025 Baited Remote Underwater Video (BRUV) and Environmental DNA (eDNA) Monitoring Survey Annual Report	2026
				Scallop Monitoring Survey	PV	6/2023	Empire Wind Scallop Monitoring Survey 2023 Annual Report	2024
				Scallop Monitoring Survey	PV	8/2024	Empire Wind Scallop Monitoring Survey 2024 Annual Report	2025
				Scallop Monitoring Survey	PV	7/2025	Empire Wind 2025 Scallop Monitoring Survey Annual Report	2025
				New York State Export Cable Pre-Construction Survey	SPI/PV, Sediment Grabs, Water Quality, Profiles	8-9/2023	1. Empire Wind Pre-Construction Benthic Monitoring Plan Survey Report - New York State Waters	2024
							2. Empire Wind Power Analysis New York State Waters Benthic Sampling Survey*	2025
				Pre-Construction Benthic Monitoring Survey - Federal Waters	SPI/PV, Sediment Grabs	8/2024	1. Empire Wind 2024 Pre-Construction Benthic Monitoring Survey Report – Federal Waters 2. Benthic Habitat Mapping Report to Support Construction Compliance Empire Wind 1	2025 2024
				Squid Bottom Trawl/eDNA	Bottom Trawl, Water Sampling	8/2024, 10/2024	Empire Wind Squid Bottom Trawl/eDNA Monitoring Survey 2024 Annual Report	2025
Squid Bottom Trawl/eDNA	Bottom Trawl, Water Sampling	8/2024, 9/2025	Empire Wind 2025 Squid Bottom Trawl/eDNA Monitoring Survey Annual Report	2026				

Site	Region	State	Client	Surveys/Studies Conducted by INSPIRE*	Sample Type	Survey Date	Technical Reports, Monitoring Plans, Protocols, Peer-Reviewed Publications, and Regional/State Reports Supporting Offshore Wind Permitting, Development, and Monitoring*	
							Title	Report Date
				-	N/A	N/A	2024 Empire Wind Fisheries and Benthic Monitoring Plan Annual Surveys Technical Memorandum	2025
				-	N/A	N/A	Empire Wind 2025 Fisheries and Benthic Monitoring Plan Annual Surveys Technical Memorandum	2026
				-	N/A	N/A	Empire Wind 1 Benthic Sampling Plan New York State Waters	2023
				-	N/A	N/A	Empire Wind Fisheries and Benthic Monitoring Plan	2023
				Acoustic Telemetry Survey	Acoustic Tags	2023	Empire Wind 2023 Acoustic Telemetry Study Annual Report	2024
				Acoustic Telemetry Survey	Acoustic Tags	2024	Empire Wind 2024 Acoustic Telemetry Study Annual Report	2025
				Acoustic Telemetry Survey	Acoustic Tags	2025	Empire Wind 2025 Acoustic Telemetry Study Annual Report	2026
				-	N/A	N/A	Sensitive Species and Habitats of Interest - Habitat Mapping Technical Memorandum	2024
<b>New York Offshore Wind Area</b>	NY Bight	NY	NYSERDA	NY Offshore Wind Study Survey	SPI/PV, Multibeam	6-8/2017	Data Report for Multibeam Echosounder and Sediment Profile and Plan View Imaging Survey in Support of the New York Offshore Wind Master Plan	2017
<b>NYSERDA 2.0 Deep Water Planning Area</b>	NY Bight	NY	HDR	NY Offshore Wind Area, NYSERDA 2.0 Deep Water Project Desktop Study	N/A	N/A	Benthic Habitat Desktop Study and Data Visualization Support Tool	2024
<b>Ocean Wind 1</b>	NY Bight	NJ	Fugro	Lease Area and Export Cable Route(s) Survey	SPI/PV	7/2019	1. Sediment Profile and Plan View Imaging Benthic Assessment Survey in Support of the Ocean Wind Offshore Wind Farm Site Assessment Data Report 2. Sensitive Species and Habitats of Interest - Summary Memo	2020 2019
<b>Ocean Wind 1</b>	NY Bight	NJ	HDR	-	N/A	N/A	Ocean Wind Offshore Wind Farm Benthic Habitat Mapping and Benthic Assessment to Support Essential Fish Habitat Consultation	2022
				Desktop Study	N/A	N/A	Request for Information #8 Ocean Wind Construction and Operations Plan	2021
<b>Ocean Wind 1</b>	NY Bight	NJ	Ocean Wind 01, LLC	Essential Fish Habitat Survey in the Lease Area and Supplemental Sand Ridge Video Investigation	SPI/PV, Video	6/2022	Preliminary Assessment of Imagery Collected in 2022 at the OCW01 Wind Farm Area Technical Memorandum	2022
				Submerged Aquatic Vegetation (SAV) Mapping Survey with Underwater Imagery	Video and Still Imagery	7/2022	Addendum to the Ocean Wind Offshore Wind Farm Benthic Habitat Mapping and Benthic Assessment to Support Essential Fish Habitat Consultation Results of the Baseline Submerged Aquatic Vegetation 2022 Field Survey	2022

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							Title	Report Date
				Pre-Construction Benthic Monitoring Survey	SPI/PV, Sediment Grabs	8/2023	Ocean Wind Offshore Wind Farm Pre-Construction Benthic Monitoring Survey Report Federal Waters	2024
				-	N/A	N/A	Ocean Wind Offshore Wind Farm Benthic Monitoring Plan	2022
				-	N/A	N/A	Ocean Wind Offshore Wind Farm Submerged Aquatic Vegetation Monitoring Plan	2022
Ocean Wind 2	NY Bight	NJ	VHB	Lease Area and Export Cable Route Survey	SPI/PV, Video, Sediment Grabs	6/2022	1. Benthic Resources Characterization Report for Ocean Wind 02 Offshore Wind Farm (OCW02); COP Appendix U1	2025
							2. Benthic and Shellfish Affected Environment and Potential Impacts COP Section	2025
							3. Commercial and Recreational Fisheries Assessment for Ocean Wind 2 Offshore Wind Farm; COP Appendix AN	2025
							4. Commercial and Recreational Fisheries Affected Environment and Potential Impacts COP Section	2025
							5. Technical Report to Support the Essential Fish Habitat Consultation for Ocean Wind 2 Offshore Wind Farm Project; COP Appendix U3	2025
6. Essential Fish Habitat Affected Environment and Potential Impacts COP Section	2025							
7. Benthic Habitat Mapping to Support Essential Fish Habitat Consultation Ocean Wind 2 Offshore Wind Farm (OCW2); COP Appendix U2	*							
8. Ocean Wind Offshore Farm Benthic Monitoring Plan*								
Protocol	N/A	N/A	Benthic Survey Protocol	2022				
-	N/A	N/A	Ocean Wind 2 Offshore Wind Technical Report on Sea Turtles Supplemental Material	2022				
-	N/A	N/A	Ocean Wind 2 Offshore Wind Technical Report on Marine Mammals Supplemental Material	2022				
South Fork Wind	NY Bight	NY	Jacobs/CH 2M	Lease Area and Export Cable Route(s) Survey	SPI/PV	11/2017	1. Sediment Profile and Plan View Imaging Benthic Assessment Survey in Support of the South Fork Wind Farm Site Assessment	2019
							2. Sediment Profile and Plan View Imaging Physical Ground-Truth Survey in Support of the South Fork Wind Farm Site Assessment	2019
							3. Essential Fish Habitat Assessment Technical Report	2019
							4. Commercial and Recreational Fisheries Technical Report	2021
							5. Benthic and Shellfish Affected Environment and Potential Impacts COP Section	2021
							6. Essential Fish Habitat Affected Environment and	2021

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							Title	Report Date
							Potential Impacts COP Section 7. Commercial and Recreational Fisheries Affected Environment and Potential Impacts COP Section	
South Fork Wind	NY Bight	NY	Stantec	-	N/A	N/A	Benthic Habitat Mapping to Support Essential Fish Habitat Consultation	2020
				Article VII Support	N/A	N/A	Article VII Subject Matter Expert Document and Legal Proceedings Support	2020
South Fork Wind	NY Bight	NY	South Fork Wind, LLC	Pre-Construction Benthic Monitoring Surveys	SPI/PV, Video, Sediment Grabs	8/2022	Pre-Construction Benthic Monitoring Survey Report Federal Waters Pre-Construction Benthic Monitoring Survey Report New York State Waters (Article VII Support)	2023 2023
				Post-Construction Benthic Monitoring Surveys	ROV Imagery	10/2023	Post-Construction Benthic Monitoring Survey: Novel Surfaces & Natural Boulder Habitat 2023 (Y0)	2024
				Post-Construction Benthic Monitoring Surveys	SPI/PV, ROV Imagery	8/2024, 9/2024	1. Post-Construction Benthic Monitoring Survey: Sediment Profile and Plan View Imaging (SPI/PV) and Remotely Operated Vehicle (ROV) Video Imaging 2024 2. Post-Construction Benthic Monitoring Survey Report New York State Waters 3. Fishing Gear Survey Around WTG Foundations 2024 Report	2025 2025 2025
				Post-Construction Benthic Monitoring Surveys	SPI/PV, ROV Imagery, Sediment Grabs	8/2025	1. Post Construction Benthic Monitoring Survey Remotely Operated Vehicle (ROV) Video Imaging 2025 2. Post-Construction Benthic Monitoring Survey Report New York State Waters 3. Fishing Gear Survey Around WTG Foundations 4. Post-Construction Benthic Monitoring Survey Report Federal Waters	2026 2026 2026 2026
				Fisheries Monitoring – Beam Trawl Surveys	Fisheries Monitoring	10/2020-9/2021 10/2021-9/2022 10/2022-9/2023 10/2023-9/2024 10/2024-9/2025	Beam Trawl Annual Report October 2020 - September 2021 Beam Trawl Annual Report October 2021 - September 2022 Beam Trawl Annual Report October 2022 - September 2023 Beam Trawl Annual Report October 2023 - September 2024 Beam Trawl Annual Report October 2024 - September 2025	2022 2023 2024 2025 2026
				Fisheries Monitoring – Fish Pot Surveys	Fisheries Monitoring	6/2021-12/2021 6/2022-12/2022 6/2023-	Fish Pot Annual Report June - December 2021 Fish Pot Annual Report June - December 2022 Fish Pot Annual Report June - December 2023 Fish Pot Annual Report June - December 2024 Fish Pot Annual Report June - December 2025	2022 2023 2024 2025 2026

Site	Region	State	Client	Surveys/Studies Conducted by INSPIRE*	Sample Type	Survey Date	Technical Reports, Monitoring Plans, Protocols, Peer-Reviewed Publications, and Regional/State Reports Supporting Offshore Wind Permitting, Development, and Monitoring*	
							Title	Report Date
						12/2023 6/2024-12/2024 6/2025-12/2025		
				Fisheries Monitoring – Gillnet Surveys	Fisheries Monitoring	5/2021-12/2021 5/2022-12/2022	Gillnet Survey Annual Report Spring and Fall 2021 Gillnet Survey Annual Report Spring and Fall 2022	2022 2023
				Fisheries Monitoring – Ventless Trap Surveys	Fisheries Monitoring	5/2021-11/2021 5/2022-11/2022 5/2023-11/2023 5/2024-11/2024 5/2025-11/2025	Ventless Trap Annual Report May - November 2021 Ventless Trap Annual Report May - November 2022 Ventless Trap Annual Report May - November 2023 Ventless Trap Annual Report May - November 2024 Ventless Trap Annual Report May - November 2025	2022 2023 2024 2025 2026
				Water Quality Calibration Survey	Water Quality Profiles	5/2022	Pre-Activity Water Quality Calibration Report	2022
				-	N/A	N/A	Fisheries and Benthic Monitoring Plan	2022
Sunrise Wind	NY Bight	NY	Orsted	Pre-Construction Benthic Monitoring Survey	SPI/PV	8/2023	Pre-Construction Benthic Monitoring Sediment Profile and Plan View Imaging (SPI/PV) Survey Report Federal Waters	2024
				Water Quality Calibration Survey	Water Quality Profiles	4/2024	Sunrise Wind Export Cable Pre-Activity Water Quality Calibration Report Case 20-T-0617	2024
				Pre-Construction Benthic Monitoring Survey Submerged Aquatic Vegetation (SAV)	Towed underwater video	11/2024	2024 Submerged Aquatic Vegetation (SAV) Survey Technical Memorandum	2024
				Fishing Gear Monitoring Survey	Video	8/2025	Sunrise Wind Fishing Gear Survey Around WTG Foundations - 2025	2026
Sunrise Wind	NY Bight	NY	Stantec	Lease Area and Export Cable Route(s) and Submerged Aquatic Vegetation (SAV) Survey	SPI/PV, Video, Sediment Grabs	5/2020, 9/2020	1. Benthic Resources Characterization Report – Federal Waters 2. Benthic Resources Characterization Report – New York State Waters 3. Benthic Habitat Mapping to Support Essential Fish Habitat Consultation 4. Essential Fish Habitat Assessment Technical Report	2022 2022 2022 2022 2020

Site	Region	State	Client	Surveys/Studies Conducted by INSPIRE*	Sample Type	Survey Date	Technical Reports, Monitoring Plans, Protocols, Peer-Reviewed Publications, and Regional/State Reports Supporting Offshore Wind Permitting, Development, and Monitoring*	
							Title	Report Date
							5. Commercial and Recreational Fisheries Technical Report 6. Essential Fish Habitat Affected Environment and Potential Impacts COP Section 7. Benthic and Shellfish Affected Environment and Potential Impacts COP Section 8. Commercial and Recreational Fisheries Affected Environment and Potential Impacts COP Section	2020 2020
				Protocol	N/A	N/A	Benthic Survey Protocol	2020
				-	N/A	N/A	Fisheries and Benthic Monitoring Plan	2024
				Article VII Support	N/A	N/A	Article VII Subject Matter Expert Document and Legal Proceedings Support	2022
<b>New England</b>								
<b>Bay State Wind</b>	New England	MA	Fugro	Cable Route Survey	SPI/PV	8/2018	1. Benthic Assessment Report 2. Geophysical Ground-truth Survey Report	2018
<b>Beacon Wind</b>	New England	MA	Equinor		N/A	N/A	Beacon Wind Water Quality Monitoring Plan to Support Intake Water Characterization	2022
				Water Quality Calibration Survey	Water Column Profiles	9/2023	Beacon Wind 2023 Water Characterization Report	2024
<b>Block Island Wind</b>	New England	RI	Deepwater Wind	Lease Area and Export Cable Route(s) Survey	SPI/PV	10/2009	Sediment Profile & Plan View Imaging Report Evaluation of Sediment and Benthos Characteristics along Potential Cable Routes and Turbine Locations for the Proposed Block Island Wind Farm	2010
				Hard Bottom Monitoring Surveys by Turbine #5	MBES, PV, Video	7/2015, 8/2016	1. Hard Bottom Baseline and Post-Construction Surveys: Year 0 Report for 2015 Baseline and 2016 Post-Construction Surveys to Characterize Potential Impacts and Response of Hard Bottom Habitats to Anchor Placement at the Block Island Wind Farm (BIWF) 2. Hard Bottom Post-Construction Surveys: Year 1 Report for 2016 Summer Post-Construction Surveys to Characterize Potential Impacts and Response of Hard Bottom Habitats to Anchor Placement at the Block Island Wind Farm (BIWF)	2016 2017
				Ventless Trap Surveys (6-year study)	Ventless Traps	2013-2019	1. BIWF Lobster Survey Annual Baseline Assessment 5/2013-10/2013 2. BIWF Lobster Survey Annual Baseline Assessment 5/2014-10/2014 3. BIWF Lobster Survey Annual Baseline Assessment 5/2015-10/2015 4. BIWF Ventless Trap Lobster Survey Annual Report 5-10/2016	2014 2015 2016 2017 2018 2019 2020

Site	Region	State	Client	Surveys/Studies Conducted by INSPIRE*	Sample Type	Survey Date	Technical Reports, Monitoring Plans, Protocols, Peer-Reviewed Publications, and Regional/State Reports Supporting Offshore Wind Permitting, Development, and Monitoring*	
							Title	Report Date
							5. BIWF Ventless Trap Lobster Survey Annual Report 5-10/2017 6. BIWF Ventless Trap Lobster Survey Annual Report 5-10/2018 7. BIWF Ventless Trap Lobster Survey Synthesis Report 2013-2018	
				Demersal Trawl Surveys (6-year study)	Fishing Trawls	2013-2019	1. BIWF Demersal Fish Trawl Survey Annual Report: 9/2012-8/2013. 2. BIWF Demersal Fish Trawl Survey Annual Report: 9/2013-9/2014 3. BIWF Demersal Fish Trawl Survey, Annual Report 10/2014-9/2015 4. BIWF Demersal Fish Trawl Survey, Annual Report 10/2015-9/2016 5. BIWF Demersal Fish Trawl Survey, Annual Report 10/2016-9/2017 6. BIWF Demersal Fish Trawl Survey, Annual Report 10/2017-9/2018 7. BIWF Demersal Fish Trawl Survey, Synthesis Report – Years 1 to 6, 10/2012-9/2018	2014 2015 2016 2017 2018 2019 2020
				-	N/A	N/A	Wilber, D.H., L. Brown, M. Griffin, and D.A. Carey. 2024. American lobster <i>Homarus americanus</i> responses to construction and operation of an offshore wind farm in Southern New England. <i>Marine Ecology Progress Series</i> . 727:123-142.	2024
				-	N/A	N/A	Gervelis, B., D.H. Wilber, L. Brown, and D.A. Carey. 2023. The role of fishery-independent bottom trawl surveys in providing regional and temporal context to offshore wind farm monitoring studies. <i>Marine and Coastal Fisheries: Dynamics, Management, and Ecosystem Science</i> DOI: 10.1002/mcf2.10231.	2023
				-	N/A	N/A	Wilber, D.H., L. Brown, M. Griffin, G.R. DeCelles, and D.A. Carey. 2022. Demersal fish and invertebrate catches relative to construction and operation of North America's first offshore wind farm. <i>ICES Journal of Marine Science</i> doi:10.1093/icesjms/fsac051.	2022
				-	N/A	N/A	Wilber, D.H., L. Brown, M. Griffin, G.R. DeCelles, and D.A. Carey. 2022. Offshore wind farm effects on flounder and gadid dietary habits and condition on the northeastern US coast. <i>Marine Ecology Progress Series</i> 683:123-138.	2022

Site	Region	State	Client	Surveys/Studies Conducted by INSPIRE*	Sample Type	Survey Date	Technical Reports, Monitoring Plans, Protocols, Peer-Reviewed Publications, and Regional/State Reports Supporting Offshore Wind Permitting, Development, and Monitoring*	
							Title	Report Date
				-	N/A	N/A	Guarinello, M.L. and D.A. Carey. 2022. Multi-modal approach for benthic impact assessments in moraine habitats: a case study at the Block Island Wind Farm. <i>Estuaries Coasts</i> 45:1107– 1122.	2022
				-	N/A	N/A	Carey, D.A., D.H. Wilber, L.B. Read, M.L. Guarinello, M. Griffin, and S. Sabo. 2020. Effects of the Block Island Wind Farm on coastal resources: Lessons learned. <i>Oceanography</i> 33(4):70–81, <a href="https://doi.org/10.5670/oceanog.2020.407">https://doi.org/10.5670/oceanog.2020.407</a> .	2020
				-	N/A	N/A	Wilber, D.H., D.A. Carey, and M. Griffin. 2018. Flatfish habitat use near North America’s first offshore wind farm. <i>Journal of Sea Research</i> 139: 24-32.	2018
<b>Revolution Wind</b>	New England	CT RI	Fugro	Lease Area and Export Cable Route(s) Survey	SPI/PV, Sediment Grabs	7/2019	<i>See VHB below for reports</i>	
<b>Revolution Wind</b>	New England	CT RI	VHB	-	N/A	N/A	1. Benthic Assessment Technical Report Revolution Offshore Wind Farm 2. Sensitive Species and Habitats of Interest - Summary Memo 3. Potential Invasive Species Memo 4. Benthic Habitat Mapping to Support Essential Fish Habitat Consultation Revolution Wind Offshore Wind Farm 5. Benthic and Shellfish Affected Environment and Potential Impacts COP Section 6. Essential Fish Habitat Affected Environment and Potential Impacts COP Section 7. Commercial and Recreational Fisheries Affected Environment and Potential Impacts COP Section 8. Essential Fish Habitat Assessment Technical Report 9. Commercial and Recreational Fisheries Technical Report	2021 2019 2020 2023 2020 2020 2020 2021 2023
				Submerged Aquatic Vegetation (SAV) Survey	PV and Video	9/2020	1. Submerged Aquatic Vegetation Memo 2. Data Presentation for RICRMC on Submerged Aquatic Vegetation	2020 2021
<b>Revolution Wind</b>	New England	CT RI	Orsted	Pre-Construction Benthic Monitoring Surveys at the Lease Area and Export Cable Route including Hard Bottom	SPI/PV ROV Imagery, MBES, SSS	7/2023 8-9/2023	1. Revolution Wind Pre-Construction Benthic Monitoring Sediment Profile and Plan View Imaging (SPI/PV) Survey Report, Federal Waters 2. Revolution Wind Pre-Construction Benthic Monitoring Survey: Existing Hard Bottom Habitats	2024 2024

Site	Region	State	Client	Surveys/Studies Conducted by INSPIRE*	Sample Type	Survey Date	Technical Reports, Monitoring Plans, Protocols, Peer-Reviewed Publications, and Regional/State Reports Supporting Offshore Wind Permitting, Development, and Monitoring*	
							Title	Report Date
				Pre-Construction Acoustic Survey Existing Hard Bottom Habitats Phase 2	MBES, SSS	7/2024	Field Survey Report for the Revolution Wind Pre-Construction Acoustic Survey Existing Hard Bottom Habitats Phase 2	2024
				Post-Construction Benthic Monitoring Surveys	ROV	7-8/2025	1. Post-Construction Benthic Monitoring Survey Remotely Operated Vehicle (ROV) Video Imaging 2025 2. Fishing Gear Survey Around WTG Foundations	2026 2026
				Post-Construction Benthic Monitoring Surveys	SPI/PV	7-8/2025	Post-Construction Benthic Monitoring Sediment Profile and Plan View Imaging (SPI/PV) Survey Report	2026
				Post-Construction Benthic Monitoring Surveys	ROV	8/2025	Post-Construction Benthic Monitoring Survey: ROV Imagery 2025 in RI State Waters	2026
				Post-Construction Seafloor Impact Inspection of the Seafloor Along Impacted Portions of the Selected Ancient Submerged Landform Features (ASLFs)	ROV	3/2025	N/A	N/A
				Submerged Aquatic Vegetation (SAV) Mapping Survey with Underwater Imagery	Towed Video, Sediment Grabs	7/2023	Results of the 2023 Revolution Wind Pre-construction SAV Survey Technical Memorandum	2023
				Quahog (Hard Clam) Population Survey	Commercial Clam Rake	7/2023 9-10/2023	1. Results of 2023 Pre-Construction Quahog Survey Technical Memorandum 2. Results of 2023 Quahog Relocation Effort Technical Memorandum	2023
				Post-Construction Seafloor Impact Inspection 2025 to assess the presence/absence of displaced cultural material, or evidence of impact to Ancient Submerged Landform Features (ASLFs)	ROV Video, MBES	3/2025	Video data deliverable to Orsted and SEARCH	2025
				Biodiversity Monitoring led by the URI in collaboration with CFRF, WHOI, INSPIRE, and Scripps Institution of Oceanography, UCSD (SIO)*	Monitoring	Under contract	Contributed to white paper	2024
				-	N/A	N/A	1. Revolution Wind Farm Fisheries and Benthic Monitoring Plan 2. Revolution Wind Farm Rhode Island State Benthic Monitoring Plan	2022 2024

Site	Region	State	Client	Surveys/Studies Conducted by INSPIRE*	Sample Type	Survey Date	Technical Reports, Monitoring Plans, Protocols, Peer-Reviewed Publications, and Regional/State Reports Supporting Offshore Wind Permitting, Development, and Monitoring*	
							Title	Report Date
				-	N/A	N/A	Benthic Habitats in Rhode Island State Waters Revolution Wind Offshore Wind Farm (Report)	2021
SouthCoast Wind	New England	MA RI	SouthCoast Wind Energy, LLC	-	N/A	N/A	Benthic Monitoring Plan - Falmouth ECC	2024
				-	N/A	N/A	Benthic Monitoring Plan - Lease Area and Brayton Point ECC	2025
				-	N/A	N/A	Fisheries Monitoring Plan - Rhode Island Waters	2023
				Desktop Study	N/A	N/A	SouthCoast Wind BOEM Alternative C-1 Benthic Desktop Study	2023
				-	N/A	N/A	Benthic Habitat Mapping to Support State Permitting Applications – Brayton Point ECC for MA State Waters (Report)	2022
				-	N/A	N/A	Benthic Habitat Mapping to Support State Permitting Applications - Brayton Point ECC for RI State Waters and GLD (Report)	2022
				-	N/A	N/A	Benthic Habitat Mapping to Support Essential Fish Habitat Consultation (Report)	2022
				-	N/A	N/A	Benthic Habitat Mapping to Support State Permitting Applications – Falmouth ECC for MA State Waters (Report)	2022
				-	N/A	N/A	Fisheries Mitigation Plan*	*
SouthCoast Wind	New England	MA RI	Innovative Environmental Science (IES)	-	N/A	N/A	Nantucket Shoals Hydrodynamic Model Impact Study	2024
Southern New England Wind Energy Area	Southern New England		Orsted	Acoustic Telemetry for Monitoring Highly Migratory Species (5 Year Survey Period)	Acoustic Tags	2022-2027	Acoustic Telemetry Fisheries Monitoring for South Fork, Revolution Wind, and Sunrise Wind NEAQ Project #2766 Progress Reports	
Starboard Wind	New England	MA	Orsted	Lease Area and Export Cable Route(s) Survey	SPI/PV, Video, Sediment Grabs	6/2024	Benthic Resources Characterization Report	2025
				-	N/A	N/A	Benthic and Shellfish Affected Environment and Potential Impacts COP Section	2025
				-	N/A	N/A	Benthic Survey Protocol	2024
				-	N/A	N/A	Benthic Habitat Mapping to Support EFH Consultation Report*	2026
				-	N/A	N/A	Benthic Monitoring Plan	2025

Site	Region	State	Client	Surveys/Studies Conducted by INSPIRE*	Sample Type	Survey Date	Technical Reports, Monitoring Plans, Protocols, Peer-Reviewed Publications, and Regional/State Reports Supporting Offshore Wind Permitting, Development, and Monitoring*	
							Title	Report Date
<b>Pacific</b>								
Equinor Atlas Wind	Pacific	CA	Ocean Infinity	Metocean Buoy Survey for the Site Assessment Plan*	SPI/PV, Pogo PV, Sediment Grabs	Under contract	-	-
				Lease Area and Export Cable Route(s) Survey*	SPI/PV, Pogo PV, Sediment Grabs	Under contract	1. Benthic Assessment Technical Data Report* 2. Benthic Habitat Mapping Report to Support the Essential Fish Habitat (EFH) Consultation Report* 3. Benthic Survey Protocol*	-
Even Keel Wind	Pacific	CA	Invenergy	Data Collection Strategy Reports	N/A	N/A	1. Fisheries and Essential Fish Habitat/Habitat Areas of Particular Concern Data Collection Strategy 2. Benthic Data Collection Strategy 3. Submerged Aquatic Vegetation Data Collection Strategy	2024 2024 2024
Golden State Wind	Pacific	CA	Tetra Tech	Lease Area and Export Cable Route(s) Survey*	SPI/PV	Under contract	1. Benthic Habitat Mapping to Support EFH Consultation Report* 2. Benthic Assessment Technical Report*	-
				Submerged Aquatic Vegetation (SAV) Survey*	Aerial Drone, ROV/Video	Under contract	Submerged Aquatic Vegetation (SAV) Report*	-
				-	N/A	N/A	Golden State Wind Benthic Survey Protocol	2024
Morro Bay Wind Energy Area	Pacific	CA	Ocean Winds	Desktop Study Report	N/A	N/A	Morro Bay Wind Energy Area - Risk Evaluation	2022
<b>Regional Projects</b>								
Regional	Northeastern US		MassCEC	Research and Mapping Study	N/A	N/A	Regional Habitat Mapping: Standard Approaches to Synthesizing, Visualizing, and Disseminating High-Resolution Geophysical Data to Advance Benthic Habitat Mapping in the Wind Energy Areas of the Northeast	2023
Regional	Southern New England		MassCEC	-	N/A	N/A	Acoustic Telemetry as a Tool to Monitor the Baseline Presence and Persistence of Highly Migratory Fish Species in Popular Recreational Fishing Grounds within the Southern New England Wind Energy Area	2022
Regional	US Atlantic Waters		Regional Wildlife Science Collaborative (RWSC)	-	N/A	N/A	Chapter 12 in An Integrated Science Plan for Wildlife, Habitat, and Offshore Wind Energy in U.S. Atlantic Waters	2023
<b>General U.S.</b>								
General	US Atlantic Waters		Cape Holland	-	N/A	N/A	White Paper of Acoustics Impacts of Impact and Vibratory Pile Driving*	*

\* In Process or Under Contract

**Table 2. Surveys INSPIRE has Conducted to Support Cable Route Development\***

Site, Region/Client	Project	Sample Type	Survey Date
<b>Attentive Offshore Wind, offshore New York</b>			
Client: Attentive Energy	Forward Scouting® Export Cable Route(s) Survey	SPI/PV Pogo PV	Sept/Oct 2022
<b>Bay State Wind, offshore Massachusetts</b>			
Client: Fugro	Cable Route Survey	SPI/PV	Aug 2018
<b>Block Island Wind, adjacent to Block Island, Rhode Island</b>			
Client: Deepwater Wind	Lease Area and Export Cable Route(s) Survey	SPI/PV	Oct 2009
<b>Blueprint Wind, offshore New York and New Jersey</b>			
Client: Tetra Tech	Lease Area and Export Cable Route(s) Survey	SPI/PV Video Sediment Grabs	April/May 2023
<b>Empire Wind, offshore New York</b>			
Client: Equinor	Export Cable Route(s) Survey	SPI/PV Sediment Grabs	Nov 2019
	New York State Export Cable Pre-Construction Monitoring Survey	SPI/PV Sediment Grabs Water Quality Profiles	Aug/Sept 2023
<b>Equinor Atlas Wind, offshore California</b>			
Client: Ocean Infinity	Lease Area and Export Cable Route(s) Survey	SPI/PV Pogo PV Sediment Grabs	Under contract
<b>Golden State Wind, offshore California</b>			
Client: Tetra Tech	Lease Area and Export Cable Route(s) Survey	SPI/PV	Under contract
<b>Ocean Wind 1, offshore New Jersey</b>			
Client: Fugro	Lease Area and Export Cable Route(s) Survey	SPI/PV Sediment Grabs	July 2019
<b>Ocean Wind 2, offshore New Jersey</b>			
Client: VHB	Lease Area and Export Cable Route	SPI/PV Video Sediment Grabs	June 2022
<b>Revolution Wind, offshore Connecticut and Rhode Island</b>			
Client: Fugro	Lease Area and Export Cable Route(s) Survey	SPI/PV Sediment Grabs	July 2019
Client: Orsted	Pre-Construction Benthic Monitoring Surveys at the Lease Area and Export Cable Route including Hard Bottom	SPI/PV, ROV Imagery, MBES, SSS	July, Aug, Sept 2023
	Pre-Construction Benthic Monitoring Surveys at the Lease Area and Export Cable Route including Hard Bottom	MBES, SSS	July 2024
	Post-Construction Benthic Monitoring Surveys at the Lease Area and Export Cable Route	SPI/PV	July and Aug 2025
	Post-Construction Benthic Monitoring Survey Remotely Operated Vehicle (ROV) Video Imaging 2025	ROV	July and Aug 2025
<b>Skipjack Wind, offshore Maryland and Delaware</b>			
Client: Oceaneering	Lease Area and Export Cable Route(s) Survey	SPI/PV	Nov 2018

Site, Region/Client	Project	Sample Type	Survey Date
Client: Stantec	Lease Area and Export Cable Route(s) and Submerged Aquatic Vegetation (SAV) Survey	SPI/PV, Video Sediment Grabs	May and Aug 2021
<b>South Fork Wind, offshore Long Island, New York</b>			
Client: Jacobs/CH2M	Lease Area and Export Cable Route(s) Survey	SPI/PV	Nov 2017
Client: South Fork Wind, LLC	Pre-Construction Benthic Monitoring Surveys at the Lease Area and Export Cable Route	SPI/PV, Video, Sediment Grabs	Aug 2022
	Post-Construction Benthic Monitoring Survey: Novel Surfaces & Natural Boulder Habitat 2023 (Y0)	ROV Video	Oct 2023
	Post-Construction Benthic Monitoring Surveys at the Lease Area and Export Cable Route	SPI/PV, Sediment Grabs, ROV Video	Aug 2024 Aug 2025
<b>Starboard Wind, New England</b>			
Client: Orsted	Lease Area and Export Cable Route(s) Survey	SPI/PV, Video, Sediment Grabs	6/2024
<b>Sunrise Wind, offshore New York</b>			
Client: Stantec	Lease Area and Export Cable Route(s) and Submerged Aquatic Vegetation (SAV) Survey	SPI/PV Sediment Grabs Video	May/Sept 2020

\*Cable route surveys were conducted in support of offshore wind development.