

U.S. Offshore Wind Synthesis of Environmental Effects Research (SEER)



Project Team

- **National Renewable Energy Laboratory (NREL)**
 - Rebecca Green, Senior Project Leader - Offshore Wind
 - Cris Hein, Senior Project Leader - Wind Energy & Wildlife
 - Liz Gill, Project Manager and Researcher
- **Pacific Northwest National Laboratory (PNNL)**
 - Geneva Harker-Klimeš, Coastal Sciences Division Director, Marine and Coastal Research Laboratory
 - Alicia Gorton, Project Manager and Marine Scientist
 - Mark Severy, Marine Energy Specialist
- **U.S. Department of Energy, Wind Energy Technologies Office (WETO)**
 - Jocelyn Brown-Saracino, Program Manager of Market Acceleration & Deployment
 - Naomi Lewandowski, Knauss Sea Grant Fellow
- **Partners**
 - Science and Technology (S&T) Advisory Committee
 - Subject matter experts to contribute to and review products
 - West and East coast specific expertise and engagement



U.S. Offshore Wind Synthesis of Environmental Effects Research (SEER)



Workplan

- **Goals**
 - Facilitate knowledge transfer for offshore wind research around the world
 - Synthesize and disseminate existing knowledge about environmental effects research, monitoring tools, assessment methods, and minimization strategies
 - Inform applicability to U.S. East and West coast waters
 - Build on existing work and collaborate with regional bodies
- **Products (FY20-22)**
 - Educational Research Briefs
 - Webinar Series
 - East and West Coast Workshops
 - Research Recommendations





Topics for Educational Research Briefs

- **Stakeholder Engagement**
 - Based on expert feedback from interviews (14), webinars (65), and forms (57)
- **Priority topics (*currently honing*)**
 - Noise and acoustic impacts
 - EMF: populations and migration patterns
 - Cable considerations: water column, benthos, and landfall
 - Floating foundations and deepwater ecosystems
 - Fish and fixed-bottom foundations
 - Birds and bats: collisions, displacement, and avoidance
 - Marine mammals: noise, vessel traffic, and entanglement hazards
 - Benthic habitat disturbance: scour and anchors
 - Monitoring technologies, methods and best practices
 - Cumulative effects on vulnerable species and habitat

