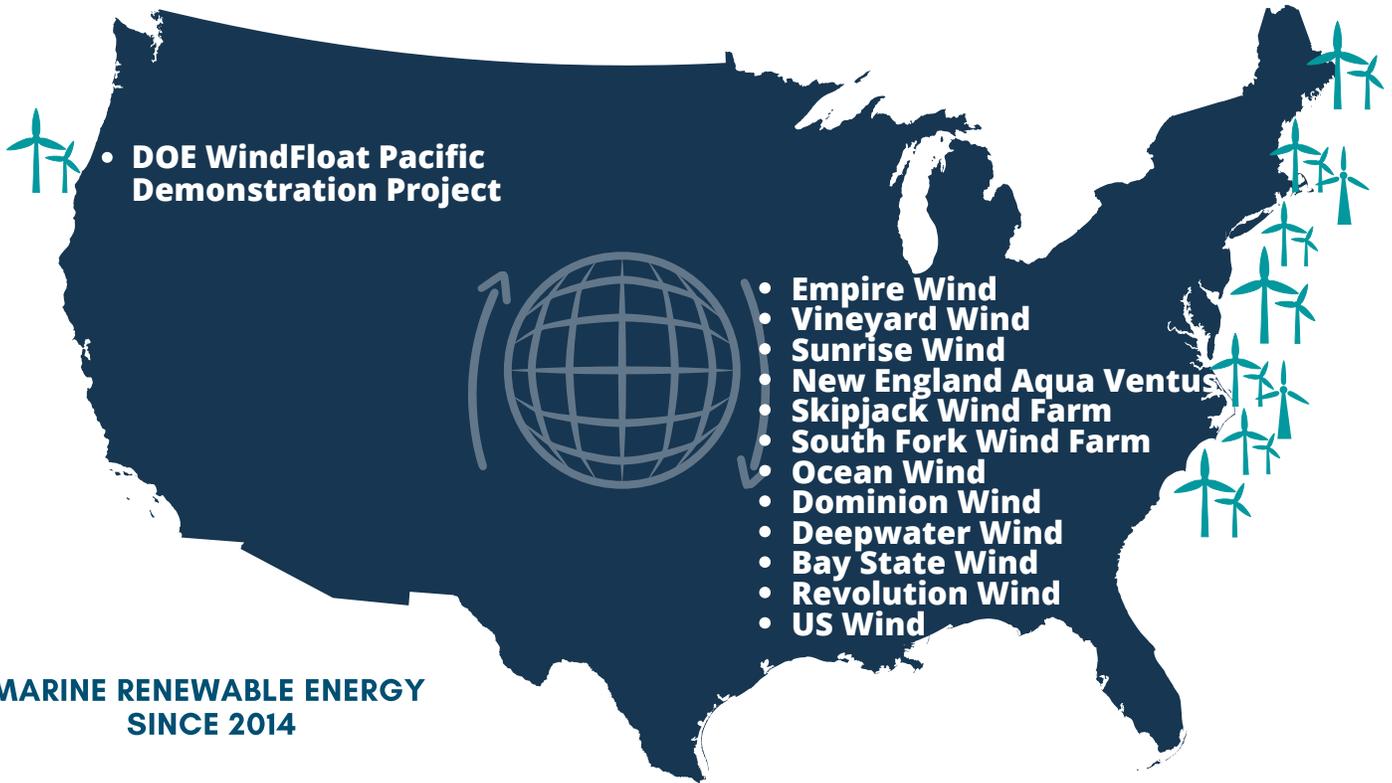


Marine Renewable Energy



SMULTEA
SCIENCES

Smultea Sciences provides scientific and sustainable solutions to minimize human impacts on wildlife and the environment.



WILDLIFE MITIGATION & MONITORING SERVICES

PROTECTED SPECIES OBSERVATION (PSO) SERVICES

PASSIVE ACOUSTIC MONITORING (PAM) SERVICES

AERIAL - VESSEL - TERRESTRIAL - ACOUSTIC - NIGHT VISION TECHNOLOGY

REAL-TIME MAPPING WITH MYSTICETUS™ SOFTWARE

DATA MANAGEMENT/ ANALYSIS/REPORTS

NMFS-CERTIFIED AND BOEM APPROVED PSO/PAM TRAINING

TERRESTRIAL AND MARINE WILDLIFE (BIRDS, MAMMALS, TURTLES, FISH)

ENVIRONMENTAL IMPACT STUDIES

NEPA - NATIONAL ENVIRONMENTAL POLICY ACT

ENVIRONMENTAL IMPACT ASSESSMENT (EA)

ENVIRONMENTAL IMPACT STATEMENTS (EIS)

BIOLOGICAL ASSESSMENTS (BA) AND EVALUATIONS (BE)

FIELD RESEARCH & REPORTING

SCIENTIFIC BASELINE STUDIES

DESKTOP ANALYSIS STUDIES

REGULATORY PERMITTING & COMPLIANCE

MMPA - MARINE MAMMAL PROTECTION ACT

ESA - ENDANGERED SPECIES ACT

INCIDENTAL HARASSMENT AUTHORIZATION (IHA) APPLICATIONS

LETTER OF AUTHORIZATION (LOA) APPLICATIONS

AGENCY CONSULTATION

ENVIRONMENTAL PERMITTING

MARINE MAMMAL MITIGATION & MONITORING PLANS (4MP)

OFFSHORE WIND ENERGY STRENGTHS:

EXPERIENCED: Insight and familiarity with the regulations which are constantly in flux.

AGILE: We are known for our nimble project management, providing qualified PSOs on short notice amidst constantly changing schedules, avoiding any related costly vessel delays, etc.

INNOVATIVE: We harness the latest in technology, including remote monitoring, Mysticetus System expertise, and night vision technology, enabling us to rapidly and accurately provide data and immediate sighting sharing with nearby vessels.

RECOGNIZED: We are certified by the US National Marine Fisheries Service (NMFS) and approved by the Bureau of Ocean Energy Management (BOEM) to train and certify PSOs/PAM operators.

PROVEN: Smultea Sciences set the offshore wind data and report standard preferred by NMFS/BOEM. Our scientific rigor maintains standards that keep our clients' projects safe from regulatory risk.

ENGAGED:

- Offshore Wind California - Board advisory role
- American Clean Power (ACP - formerly AWEA), member of Offshore Wind Committee
- NYSERDA, Offshore Wind Energy Development, Environmental Technical Working Groups (E-TWG): Birds, Marine Mammals, Environmental Change

SMALL BUSINESS CERTIFICATIONS* 2021

As a **woman-owned small business (WOSB)**, Smultea Sciences is federally **SBA-certified** and is also state certified as a **Disadvantaged Business Enterprise (DBE)**, and **Woman's Business Enterprise (WBE)** along both U.S. coasts.

In addition, Smultea Sciences has business registrations in many coastal states.

These certifications and registrations give our clients **advantages on certain projects receiving federal and state funding, both for diversity and local content goals** set by funding agencies.

State	Agency	Cert Type
US ATLANTIC		
CT	Connecticut Unified Certification Program	DBE
MA	Massachusetts Supplier Diversity Office (SDO)	WBE
ME	Maine DOT / Unified Certification Program	DBE
MD	Maryland DOT	MBE
NH	State of New Hampshire DOT	DBE
NJ	The Port Authority of NY & NJ	WBE
NY	The Port Authority of NY & NJ	WBE
RI	Rhode Island Unified Certification Program	DBE
VA	Virginia DOT	WBE
US PACIFIC		
AK	Alaska Unified Certification Program	DBE
CA	California DOT / Unified Certification Program	DBE
HI	Hawaii DOT	DBE / SBE
OR	State of Oregon OCMS	DBE / WBE
WA	Washington State OMWBE	DBE / WBE
FEDERAL		
FED	SAM.gov / Small Business Administration (SBA)	SDB, WBE, WOSB

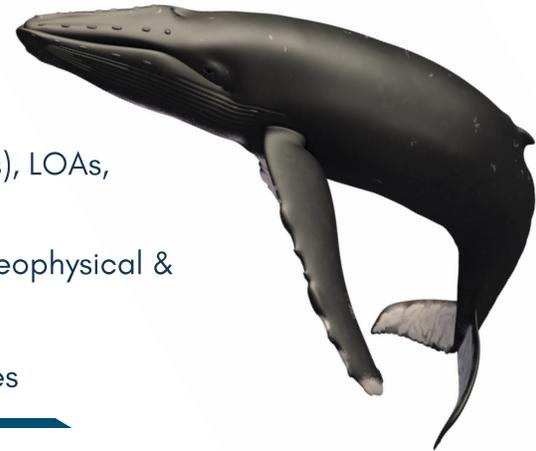
DBE Disadvantaged Business Enterprise
WBE Women's Business Enterprise
MBE Minority Business Enterprise
SDB Small Disadvantaged Business
WOSB Woman's Owned Small Business

SBA WOSB
 Woman Owned Small Business



PSO/MMO/PAM SERVICES BY THE NUMBERS:

0	0 (Zero) HSE lost-time over the past 8 years
3	3 of the only 5 seismic survey IHAs accepted by NMFS in the US Atlantic
13	13 BOEM offshore lease areas
30	Over 30 Incidental Harassment Authorizations (IHAs), LOAs, LOCs, EAs, EISs, and BAs submitted to US agencies
50	Provided services aboard over 50 offshore wind geophysical & geotechnical project vessels
100+	Over 100 technical reports submitted to US agencies
160+	Roster of 160+ US-based NMFS-certified and BSEE-approved observers



RECOGNIZED OFFSHORE WIND EXPERTISE:



SELECT PUBLICATIONS (100+):

- **California Data - Implications for Planning and Permitting.** *Offshore Wind California*
Ian Todd and Whitney Fiore, SWCA Environmental Consultants and Dr. Mari Smultea, Smultea Sciences
- **It's not easy being green: Minimizing the impact of offshore wind on wildlife.** *North American Clean Energy* 10(5):48-49
Courbis, S.S., M.A. Smultea, and H. Cocca. 2016

EXPERT PANEL/CONFERENCE/WORKSHOP PRESENTATIONS:

- **PSO Detections of NARW; Significant Events for the Greater Good.**
North Atlantic Right Whale Consortium 2020, Craig Reiser
- **East Coast vs West Coast: Protected Wildlife Species Survey Needs, Approaches, & Available Technologies.**
AWEA Offshore WINDPOWER 2020 Virtual Summit, October 14, 2020, Dr. Mari Smultea
- **US West Coast Floating Wind and Cetaceans: Baseline Data, Risks, and Moving Forward.**
Pacific Ocean Energy Trust (POET), July 2, 2020, Dr. Mari Smultea
- **Offshore wind and protected species: Navigating the challenging process of wildlife permitting.**
Smultea, M.A., K. Lomac-MacNair, D. Steckler, and S.S. Courbis. AWEA Offshore WINDPOWER 2016 Conference & Exhibition. 25-26 October 2016. Warwick, Rhode Island.
- **Protected species monitoring and mitigation during the WindFloat Pacific Offshore Wind Project 2014/2015**
Smultea, M.A, K. Lomac-MacNair, and S.S. Courbis. AWEA WINDPOWER 2016 Conference & Exhibition. 23-26 May 2016. New Orleans, Louisiana.



Via our experienced adaptive and reliable project management process, since 2014 we have brought economy and efficiencies to offshore wind energy development.

**BAY STATE WIND | DEEPWATER WIND | DOE WINDFLOAT PACIFIC DEMONSTRATION PROJECT
DOMINION WIND | EQUINOR EMPIRE WIND | NEW ENGLAND AQUA VENTUS | OCEAN WIND
REVOLUTION WIND | SKIPJACK WIND FARM | SOUTH FORK WIND FARM
SUNRISE WIND | VINEYARD WIND | U.S. WIND**

- Marine Mammal Mitigation & Monitoring (PSO/PAM) during 24h operations
- Manage offshore and nearshore teams of up to 6 PSO/PAM operators on multiple concurrent vessels
- Applied technology: Passive Acoustic Monitoring (PAM), mounted infra-red (IR)/HD video, Mysticetus System, Night Vision Devices (NVDs), autonomous underwater vehicles/remote underwater vehicles (AUV/ROVs), SLR camera photography, reticle binoculars
- Real-time North Atlantic Right Whale (NARW) mitigation measures and reporting
- Data collection, QAQC analysis, and regulatory-required reporting
- Compliance/professional interpretation of NMFS Incidental Harassment Authorization permit and BOEM project lease
- Atlantic Sturgeon and endangered fish monitoring and mitigation



OFFSHORE WIND SPECIAL PROJECTS:

East Coast Collective BOEM Lease Reporting and Data Integration

Night Vision/Infrared Technology white paper analyzing efficacy for detecting protected species at sea during darkness

Regulatory compliance support for protected species monitoring, mitigation, and reporting requirements in preparation for windfarm construction.



**We know what works
and how to streamline and economize
environmental compliance.**

We recognize our clients face numerous challenges on a daily basis. You can rest assured we won't be one of them.

FOR FURTHER INFORMATION:

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