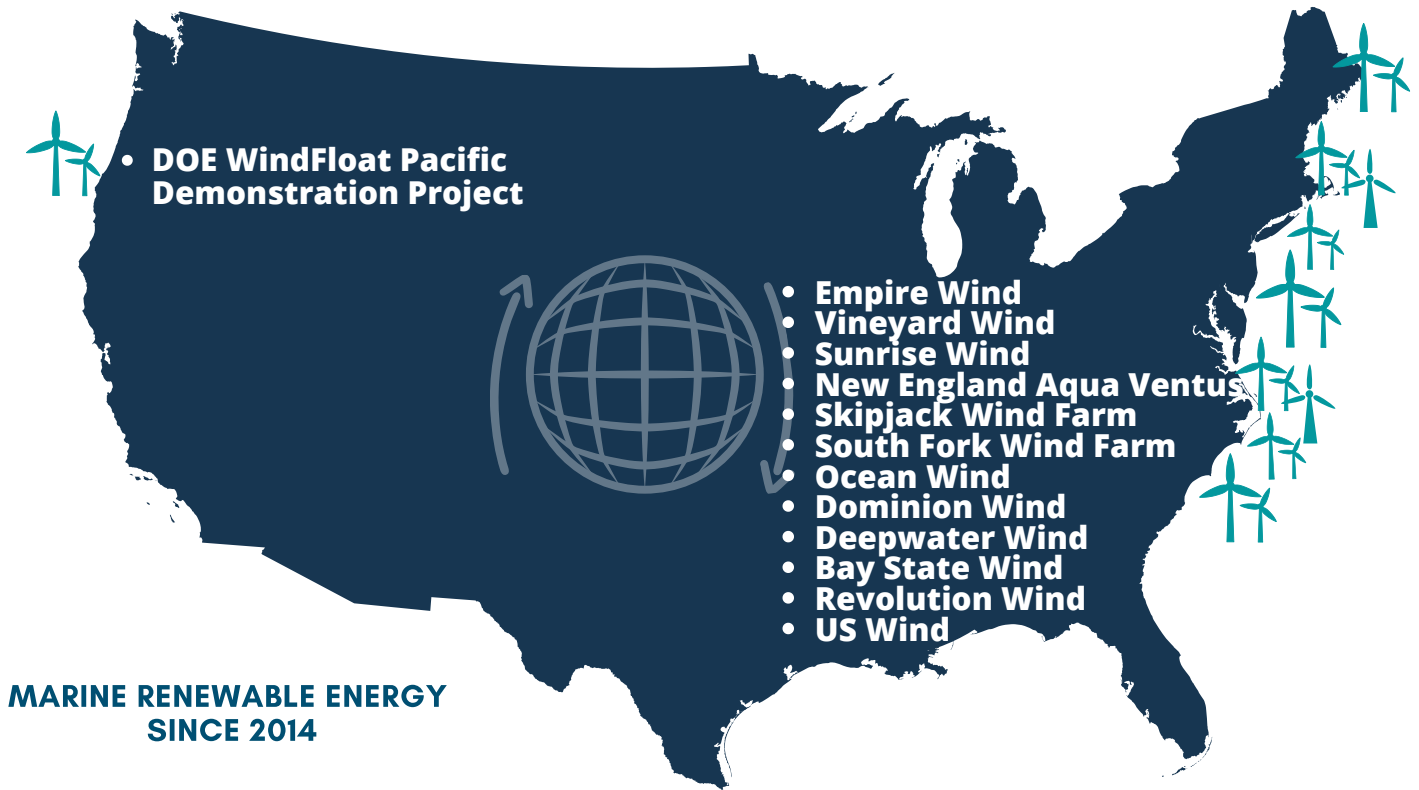


# Marine Renewable Energy



**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
<b>US ATLANTIC</b>		
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
<b>US PACIFIC</b>		
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
<b>FEDERAL</b>		
FED	SAM.gov / Small Business Administration (SBA)	SDB, WBE, WOSB

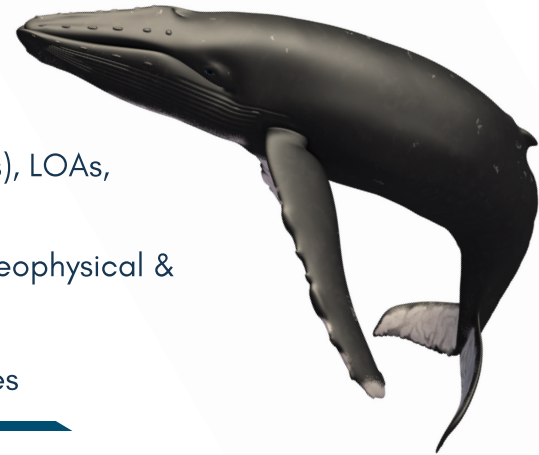
**DBE** Disadvantaged Business Enterprise  
**WBE** Women's Business Enterprise  
**MBE** Minority Business Enterprise  
**SDB** Small Disadvantaged Business  
**WOSB** Woman's Owned Small Business

**SBA WOSB**  
 Woman Owned Small Business



## PSO/MMO/PAM SERVICES BY THE NUMBERS:

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