

**Workshop on Best Management Practices for  
Atlantic Offshore Wind Facilities**



**& Marine Protected Species**

March 7-9, 2017



# Workshop Overview



# Best Management Practices

*“Best management practices mean practices recognized within their respective industry, or by Government, as one of the best for achieving the desired output while reducing undesirable outcomes.”*

– §30 CFR 585.112

BMPs for protected species can include:

- Effective and practicable to prevent or reduce impacts
- Monitoring impacts
- Implemented in a standardized way
- Technological, economic, safety, and regulatory considerations
- Address concerns and achieve offshore wind goals



## Panel Selection

- **A Cross section of stakeholder groups**
  - **Industry**
  - **Regulators**
  - **Scientific**
  - **Environmental NGOs**
  - **International partners**
- **Expertise in their discipline(s)**
- **Actively engaged with the workshop topics and issues**
- **Nice and agreed to come to the workshop!**



## Your Cross-Disciplinary Panel of Experts

### Panelist

Howard Rosenbaum  
Eva Philipp  
Jennifer Banks  
Helen Bailey  
Scott Kraus  
Catherine Bowes  
Michael Jasny  
Sofie Van Parijs  
Julie Crocker  
Jordan Carduner  
Debra Palka  
Vicki Cornish  
Sonia Mendes  
Jason Roberts  
Pernille Hermansen  
Aileen Kenney  
Deborah Epperson  
Kyle Baker  
Desray Reeb

### Affiliation

Wildlife Conservation Society  
Vattenfall  
US Wind  
University of Maryland CES  
New England Aquarium  
National Wildlife Federation  
National Resources Defense Council  
NOAA Fisheries  
NOAA Fisheries  
NOAA Fisheries  
NOAA Fisheries  
Marine Mammal Commission  
Joint Nature Conservation Committee, UK  
Duke University  
Dong Energy  
Deepwater Wind  
Bureau of Safety and Environmental Enforcement  
Bureau of Ocean Energy Management  
Bureau of Ocean Energy Management





# Office of Renewable Energy Programs

## State of the Science, Regulations, and Stakeholder Perspectives

### Invited Speakers

APEM

AWEA

Bureau of Ocean Energy Management

Deepwater Wind

Duke University

Jasco Applied Sciences

Joint Nature Conservation Committee,  
UK

NRDC, NWF, and WCS

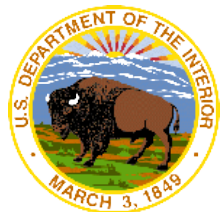
The Nature Conservancy

The New England Aquarium

NOAA Fisheries

USCG District V

Vattenfall



# Roles and Objectives of the Workshop Panel

- Provide opinions and advice for BMPs
  - Mitigation measures
  - Standardized monitoring procedures
  - How to maintain and share information
- Listen, ask questions, and understand the science, regulations, and perspectives.
- We are not seeking consensus on issues.
- Lively discussion and debate are encouraged.



## Workshop Objectives

- Increase understanding around the science and regulations for protecting marine species from the effects of offshore wind development on the Atlantic Outer Continental Shelf (OCS).
- Identify and discuss possible best management practices (BMPs) for preventing, reducing, and monitoring offshore wind effects to marine protected species on the Atlantic OCS.





# Workshop Outcomes

A workshop report will include:

- Anticipated impacts to protected species
- BMPs identified
- Approaches for standardized monitoring
- How to manage and share data
- Challenges and constraints
- Other recommendations moving forward



## Outcomes May Inform:

- **BOEM's Environmental Assessments under NEPA**
- **Future guidance**
- **Environmental Studies for areas of needed research**
- **ESA consultations and MMPA applications**
- **Expectations moving forward**



# Agenda



# Agenda

## DAY 1: Stakeholder Perspectives

Identify Effects of Protected Species and UK Experience  
Underwater Sound and NOAA Guidance  
High Resolution Geophysical surveys

## Day 2: Pile Driving and German experience Environmental Baseline

## Days 3: Baseline (continued)

Vessel operations  
Wrap up BMP outcomes



# Agenda

- Presentations
- Panel Discussions
- Participant questions and comments
  - Oral Comments
  - Comment cards



# Proposed Workshop Ground Rules

Please –

- Turn phones and other electronics on silent.
- Try to arrive on time after breaks and lunch.
- Keep side conversations to a minimum.
- Explain acronyms; and try to avoid using.
- Focus discussions to the current topic and workshop objectives.
- Use the parking lot for off-track topics. They will be returned to as time permits.
- Agree to table discussions that require more time than allowed unless the other Panelists agree to spend more time on them.
- Raise your tent card if you have a question or have a comment to add.
- Ask for clarification when you need it.

Let's learn a lot from one another and try to have a good time!

