

## DETAILED AGENDA

# State of the Science Workshop on Wildlife and Offshore Wind Energy Development



Hosted by the New York State Energy Research and Development Authority (NYSDERDA)

Inn at Fox Hollow, Woodbury, New York

**Workshop events are in the Somerley Room unless otherwise noted.**

## Monday, November 12

7:30 a.m.– 8:30 p.m.	<b>Pre-workshop Social</b> ( <i>Vintage 25 Bar and Lounge, Inn at Fox Hollow</i> )
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## Tuesday, November 13

9:00 a.m.– 10:00 a.m.	<b>Check In</b> ( <i>Somerley Lobby</i> )
10:00 a.m.– 12:25 p.m.	<b>Marine Systems and the Offshore Wind Development Process</b> <i>Session Moderator: Gregory Lampman, NYSDERDA</i> <b>Welcome and workshop overview</b> <i>Gregory Lampman, NYSDERDA</i> <b>Resources in a dynamic ocean</b> <i>Kevin Friedland, NOAA Northeast Fisheries Science Center</i> <b>Overview of current leases, regulations, and the development process</b> <i>Mary Boatman, Bureau of Ocean Energy Management</i> <b>Introduction to offshore wind: Development, construction, and operations</b> <i>Sophie Hartfield, Ørsted</i> <b>Results to date: Real-time Opportunity for Development Environmental Observations (RODEO) project</b> <i>Mary Boatman, Bureau of Ocean Energy Management</i> <b>Q &amp; A / Panel discussion</b>
12:25 p.m.– 1:10 p.m.	<b>Lunch</b> ( <i>Springfield Room</i> )
1:10 p.m.– 2:50 p.m.	<b>Marine Mammals, Part 1</b> <i>Session Moderator: Francine Kershaw, Natural Resources Defense Council</i> <b>Marine mammal populations and surveys</b> <i>Debi Palka, NOAA Northeast Fisheries Science Center</i> <b>Large cetaceans: human impacts, existing knowledge, and data gaps</b> <i>Melinda Rekdahl, Wildlife Conservation Society</i> <b>Lessons learned from Europe: the effects of offshore wind energy development on marine mammals</b> <i>Karen Hall, Joint Nature Conservation Commission</i> <b>Overview of pile driving sounds and how to estimate impacts within the U.S. regulatory framework</b> <i>Dave Zeddies, JASCO Applied Sciences</i> <b>Developments to minimize marine mammal exposure to wind farm construction noise</b> <i>Ursula Verfuss, SMRU Consulting</i> <b>Q &amp; A / Panel discussion</b>

## AGENDA (CONTINUED)

2:50 p.m.– 3:05 p.m.	<b>Coffee Break</b>
3:05 p.m.– 4:30 p.m.	<b>Sea Turtles, and Marine Mammals Part 2</b> <i>Session Moderator: Lisa Bonacci, New York State Dept. of Environmental Conservation</i> <b>Turtle populations in the northwest Atlantic</b> <i>Heather Haas, NOAA Northeast Fisheries Science Center</i> <b>Impacts from marine development on turtles</b> <i>Sue Barco, Virginia Aquarium</i> <b>Turtles and offshore wind: what we know (and what we don't)</b> <i>Kyle Baker, Bureau of Ocean Energy Management</i> <b>Monitoring during the construction and post-construction periods: Developing a regional strategy for data sharing &amp; standardizing protocols</b> <i>Kyle Baker, Bureau of Ocean Energy Management</i> <b>Q &amp; A / Panel discussion</b>
4:30 p.m.– 5:00 p.m.	<b>Group Discussion – Regional Strategies</b>
5:00 p.m.– 6:00 p.m.	<b>Break</b> (on your own)
6:00 p.m.– 7:00 p.m.	<b>Dinner</b> ( <i>seating in Hearth Room, 1st floor, and Fox Hunt Room, 2nd floor</i> )
7:00 p.m.– 8:30 p.m.	<b>Poster Session and Public Open House</b>

## Wednesday, November 14

7:30 a.m.– 8:00 a.m.	<b>Check In</b> ( <i>Somerley Lobby</i> )
8:00 a.m.– 8:05 a.m.	<b>Welcome and Day One Recap</b> <i>Kate Williams, Biodiversity Research Institute</i>
8:05 a.m.– 9:35 a.m.	<b>Lower Trophic Levels, Fishes, and Fish Habitat, Part 1</b> <i>Session Moderator: Carl LoBue, The Nature Conservancy</i> <b>Zooplankton in the northwest Atlantic: the foundation of the food web</b> <i>Ryan Morse, NOAA Northeast Fisheries Science Center</i> <b>Fish populations and fish habitats in eastern North America</b> <i>Vince Guida, NOAA Northeast Fisheries Science Center</i> <b>Review: fish hearing and effects of underwater noise</b> <i>Arthur Popper, University of Maryland</i> <b>Effects of electromagnetic fields (EMF) from offshore wind facilities</b> <i>Andrew Gill, PANGALIA Environmental</i> <b>Impacts from offshore wind to benthos and benthic habitats</b> <i>Paul English, Fugro</i> <b>Q &amp; A / Panel discussion</b>
9:35 a.m.– 9:50 a.m.	<b>Coffee Break</b>

## AGENDA (CONTINUED)

<p>9:50 a.m.– 11:00 a.m.</p>	<p><b>Lower Trophic Levels, Fishes, and Fish Habitat, Part 2</b></p> <p><i>Session Moderator: Sue Tuxbury, NOAA Fisheries</i></p> <p><b>Review of European studies: impacts of offshore wind development on fishes</b> <i>Andrew Gill, PANGALIA Environmental</i></p> <p><b>Meta-analysis of the effects of offshore wind farms on finfish abundance</b> <i>Elizabeth Methratta, Integrative Sciences Group</i></p> <p><b>Examining impacts of America’s first offshore wind farm on fishes and invertebrates</b> <i>Drew Carey, Inspire Environmental</i></p> <p><b>Q &amp; A / Panel discussion</b></p>
<p>11:00 a.m.– 11:45 a.m.</p>	<p><b>Lunch</b> (<i>Springfield Room</i>)</p>
<p>11:45 a.m.– 1:35 p.m.</p>	<p><b>Birds and Bats</b></p> <p><i>Session Moderator: Caleb Spiegel, U.S. Fish and Wildlife Service</i></p> <p><b>Bats and wind energy</b> <i>Trevor Peterson, Stantec</i></p> <p><b>The current state of knowledge regarding avian impacts from offshore wind energy developments in Europe</b> <i>Sue O’Brien, Joint Nature Conservation Commission</i></p> <p><b>Modeling avian distributions and relative abundance in the northwest Atlantic using compiled data</b> <i>Arliss Winship, NOAA NCCOS &amp; CSS</i></p> <p><b>Using individual tracking of protected species to inform offshore wind development</b> <i>Pam Loring, U.S. Fish and Wildlife Service</i></p> <p><b>Bird and bat monitoring at the Block Island Wind Farm</b> <i>Stephanie Wilson, Deepwater Wind</i></p> <p><b>Recent developments in bird and bat detection and deterrence</b> <i>Jocelyn Brown-Saracino, Department of Energy</i></p> <p><b>Q &amp; A / Panel discussion</b></p>
<p>1:35 p.m.– 1:50 p.m.</p>	<p><b>Coffee Break</b></p>
<p>1:50 p.m.– 3:15 p.m.</p>	<p><b>Ecosystem Perspectives</b></p> <p><i>Session Moderator: Catherine Bowes, National Wildlife Federation</i></p> <p><b>From observing structural effects to understanding functional effects of offshore wind energy development</b> <i>Steven Degraer, Royal Belgian Institute of Natural Sciences</i></p> <p><b>Designing research and monitoring studies to effectively detect impacts</b> <i>David Secor, University of Maryland</i></p> <p><b>Understanding cumulative impacts</b> <i>Wing Goodale, Biodiversity Research Institute</i></p> <p><b>Lessons learned from the European experience</b> <i>Sue O’Brien, Joint Nature Conservation Commission</i></p> <p><b>Q &amp; A / Panel discussion</b></p>
<p>3:15 p.m.– 3:30 p.m.</p>	<p><b>Coffee Break</b></p>
<p>3:30 p.m.– 4:30 p.m.</p>	<p><b>Group Discussion with E-TWG Panel – Reflection on Workshop Priorities</b></p> <p><i>Martin Goff, Equinor</i> <i>Jillian Liner, Audubon New York</i> <i>Joe Martens, New York Offshore Wind Alliance</i></p>

## AGENDA (CONTINUED)

### Thursday, November 15

Space for post-workshop meetings is limited; please email contacts below to sign up.  
(Post-workshop meetings are not being hosted by NYSERDA).

9 a.m.– 12 p.m.	<b>Environmental impact vs. effect — towards understanding the interaction between benthic environmental receptors and energy emissions (EMF and noise)</b> <i>Andrew Gill, PANGALIA Environmental, Devon Room (kate.williams@briloon.org)</i>
9:30 a.m.– 4:30 p.m.	<b>Atlantic Marine Bird Cooperative (AMBC) Marine Spatial Planning Working Group</b> <i>Caleb Spiegel, U.S. Fish and Wildlife Service, Fox Hunt Room (caleb_spiegel@fws.gov)</i>