

Mini TechSurge: Advancing Collaboration and Inspiring Innovation for Offshore Wind Monitoring and Mitigation | [Website](#)

NYSERDA State of Science Meeting | Stony Brook University
July 18, 2024 | 1:30 – 5:30 PM | Ballroom



Draft Agenda

Time	Agenda Item
1:30 – 1:40 PM	<p>Welcome Ruth Perry, MTS Offshore Renewable Energy Committee Chair, Shell, and Emily Shumchenia, RWSC Director</p>
1:40 – 2:30 PM	<p>Panel: Innovative Approaches to Leverage Offshore Infrastructure for Environmental and Wildlife Monitoring: Insights from Above and Below Water <i>Purpose: Session will highlight examples of work done and/or underway in the integration of sensors and technology with offshore development and infrastructure to support monitoring and mitigation efforts, focusing on both above and below water. Speakers will share their professional experience and explore how technological monitoring is applied in decision-making.</i></p> <p>Moderator: Emily Shumchenia, RWSC</p> <p>Speakers:</p> <ul style="list-style-type: none"> • Sarah Courbis, Ph.D., Worley Consulting (confirmed) • Jennifer Dupont, Equinor (confirmed) • Office of Naval Research (invited)
2:30 - 2:40 PM	<p>Question and Answer Session Moderator: Emily Shumchenia, RWSC</p>
2:40 - 2:55 PM	<p>Break</p>
2:55 – 3:10 PM	<p>Overview of Breakout Sessions <i>Purpose: Participants will engage in discussions to pinpoint specific bottlenecks, assess the adequacy of data collection and sensor deployment, and explore technological and partnership solutions for enhancing the workflow.</i></p> <p>Speaker: Josh Kohut, MTS VP of Education, Rutgers University</p> <p>Two focus areas:</p> <ol style="list-style-type: none"> 1. Science and Monitoring - Anticipated data needs for research, potential impact assessment, and mitigation 2. Technology - Current capabilities and potential applications of future innovation

<p>3:10 – 3:55 PM</p>	<p>Breakout Session 1</p> <p>Data and Sensor Deployment*</p> <p>Question 1:</p> <ul style="list-style-type: none"> • Science & Monitoring: What specific types of data are crucial for real-time decision-making and monitoring? • Technology: Which sensors/platforms offer real-time monitoring capabilities? <p>Question 2:</p> <ul style="list-style-type: none"> • Science & Monitoring: What are the optimal sensor deployment methods and locations? Are there challenges with local data storage and transmission? • Technology: What technologies/platforms need more innovation/development before they can be reliably integrated into a science and monitoring framework within a wind farm? e.g., <p>Future Data Needs*</p> <p>Question 1:</p> <ul style="list-style-type: none"> • Science & Monitoring: What data requirements are anticipated for offshore wind and ecological impact research / monitoring in the next two years? • Technology: How do technological advancements align with future data needs for research and monitoring over the next two years? <p>Identifying Roadblocks and Solutions*</p> <p>Question 1:</p> <ul style="list-style-type: none"> • Science & Monitoring: What are the current bottlenecks in science interpretation workflows? What technological advancements are needed to address these challenges? • Technology: What are the current bottlenecks in the technology-to-decision-making workflow? Which technologies (or advancements) can effectively overcome these challenges?
<p>3:55 - 4:10 PM</p>	<p>Break</p>
<p>4:10 - 4:55 PM</p>	<p>Breakout Session 2</p> <p>Review and Reactions*</p> <p>Question 1:</p> <ul style="list-style-type: none"> • Science & Monitoring: Are the identified data critical for real-time decision-making? Can additional data needs and sensor locations be identified? • Technology: Are identified sensors/platforms comprehensive for real-time monitoring? Are they solutions for addressing deployment location needs and storage/transmission challenges? <p>Question 2:</p>

	<ul style="list-style-type: none"> • Science & Monitoring: Are the identified data requirements appropriate for the next two years? • Technology: Do technological advancements align with anticipated research and monitoring needs? <p>Question 3:</p> <ul style="list-style-type: none"> • Science & Monitoring: Are there unidentified bottlenecks or challenges? • Technology: Are all bottlenecks in the technology-to-decision-making workflow identified, along with available technologies? <p>Partnership Challenges and Solutions*</p> <p>Question 1:</p> <ul style="list-style-type: none"> • How can we foster partnerships to develop and implement these technologies? Are there examples of successful partnerships? <p>Question 2:</p> <ul style="list-style-type: none"> • What technological advancements can address identified challenges? <p>Question 3:</p> <ul style="list-style-type: none"> • How should we encourage/enable limited sharing between and among private industry, regulators, etc.?
4:55- 5:15 PM	Tech Café Lightning Talks* and Adjourn

**Subject to change.*