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 – 5:15 PM | Ballroom

Breakout Session Worksheet

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 workflow.

Topics:
- Science & Monitoring - Anticipated data needs for research, potential impact assessment, and mitigation
- Technology - Current capabilities and potential applications of future innovation

Sticker Color	Facilitator
Green	Facilitator 1: Ruth Perry
Blue	Facilitator 2: Emily Shumchenia
Red	Facilitator 3: Josh Kohut
Yellow	Facilitator 4: Joe Brodie

Breakout Session 1

Participants will be divided into four groups, each identified by colored stickers: green stickers with Facilitator 1, blue stickers with Facilitator 2, red stickers with Facilitator 3, and yellow stickers with Facilitator 4. In Session 1, attendees will move to their designated areas based on their color sticker. They will discuss the questions under the guidance of their assigned facilitator, addressing Science & Monitoring and Technology perspectives. Attendees will be randomly distributed. Facilitators will ensure that all questions are addressed and encourage active participation.

Data and Sensor Deployment (15 minutes)
- What specific types of data and real-time monitoring sensors/platforms can be utilized for real-time decision-making and monitoring, and what are the optimal deployment methods, locations, and technological innovations needed to address challenges like local data storage and transmission?

Future Data Needs (15 minutes)
- What data requirements and technological advancements are anticipated for offshore wind ecological impact research and monitoring over the next two years?

Identifying Roadblocks and Solutions (15 minutes)
- What are the current bottlenecks in science interpretation workflows, and what technological advancements are needed to address these challenges?

Session 2

For session 2, facilitators and notetakers will switch groups with their flipchart: Facilitator 1 will move to the group initially with Facilitator 2, Facilitator 2 will move to the group initially with Facilitator 3, and so on. This ensures comprehensive capture of discussions.
- Green stickers with Facilitator 4: Joe Brodie
- Blue stickers with Facilitator 1: Ruth Perry
- Red stickers with Facilitator 2: Emily Shumchenia
- Yellow stickers with Facilitator 3: Josh Kohut

There will be a 15-minute review and reflection period, during which participants will discuss insights from their rotated facilitator's breakout session and offer additional perspectives. The focus will then shift to solutions, with 30 minutes dedicated to diving deeper into proposed strategies, discussing feasibility, implementation challenges, and potential collaborations. This session aims to build upon the foundations established in Session 1.

Review and Reactions (15 minutes)

- How do the ideas discussed by the other breakout group align with your discussion? What new insights have emerged, and what common themes do you see? Are there any important aspects that haven't been addressed yet?

Partnership Challenges and Solutions (30 minutes)

- How can we foster partnerships to develop and implement these technologies? Are there examples of successful partnerships?
- What technological advancements can address identified challenges?
- How do we encourage/enable limited sharing between and among private industry, regulators, etc.?

Note on Tech Café

The Tech Cafe will serve as a platform for participants to vote on proposed solutions. Information summarized from Session 1, and further elaborated upon in Session 2, will be presented on solutions flipcharts. Each participant will receive two stickers for voting on Science & Monitoring solutions and two stickers for voting on Technology solutions. This exercise will help identify priority areas for action and collaboration.