

Floating Wind Solutions 2024 CFA-Call for Abstracts - FWS '24 Themes & Key Topics

Supply Chain Focus – 10 Dedicated sessions

Volumes & competition drive journey to develop global (& regional) Supply Chains

I. Spotlight on Developers - Offshore Wind Project Ambitions & Discussion on Best Offtake Opportunities (Regional Perspectives) Panel Session

- I-1 Offshore Wind Project Ambitions - *a Review of 5 to 10 Year Plans*
- I-2 An overview of Seabed Lease Experiences around the world
 - What methods are benefitting scaling of Industry?
 - What is working and not working?
- I-3 Floating Wind Auctioning Systems – *Successful Paths to Market for Tenable Projects*
 - Pros & Cons of Seabed versus Offtake Auctions by key-Region
 - Alternative Offtake Scenarios

II. WTG OEM Focused Panel Session

- II-1 Is Bigger Always Better?
 - Where are we in the process towards bigger turbines (20 MW+)?
 - Can the Industry standardize on 15 MW Turbines for now?
- II-2 Pros and importance of early engagement with WTG OEM and Foundation concept suppliers!
 - What can be improved in the WTG / Designer relationship?
- II-3 What is your capacity to work with Floating Designers across regions?
- II-4 Where does the application of a Floater Design differ per region? Is there a uniform design?

III. SCALING-UP - Pathways to Industrialization for WTG and Floating Substructures Panel Discussion

- III-1 'Stepping Stones' to De-Risking Ahead of GW Scale -going from **88 MW to ~300 MW to ~1 GW** (e.g. ScotWind Salamander project (Orsted, Simply Blue Group, Ocergy, Subsea 7))
- III-2 Is Bigger Always Better?
 - Tradeoffs Between Upsizing and Industrialization
 - Experiences and challenges with IP/Claiming issues
- III-3 Lack of Capacity - What is Needed?
 - Streamline Supply Chain (SC)
 - Strategic Investments in SC Bottlenecks
 - Industrialization
 - Grid connection challenges
 - Ports & Harbors
- III-4 Floating Wind Projects GW in Pipeline to Execution - Regional Differences
 - Highlight key regions of FW Activity (upcoming projects that are happening)!
 - A lot has happened in last 3 years, Highlight PROGRESS and WHAT is WORKING? (e.g. quick connect moorings, bending of cables, port & harbor development, etc.)

IV. Energy Storage & the Role of Floating Wind in Electrification/Hybridization/Decarbonization (of Oil & Gas Assets)

- IV-1 What are the different use cases for ENERGY STORAGE as an Enabler?
- IV-2 Arbitrage: Using excess capacity to Energy Storage (Hydrogen & other)
- IV-3 Electrification/ Decarbonization of Oil & Gas Assets

V. O&M – Operations and Maintenance (Life of Field)

- V-1 Presentations of case studies for driving-down O&M costs
- V-2 Ultra-deep water Floating Wind O&M strategy and windfarms far from shore
- V-3 Comparison of Life Cycle Assessment(steel vs concrete)
 - For a steel semi sub concept compared to the equivalent in concrete

VI. Mooring Systems & Solutions (Case Studies preferred)

- VI-1 Supply Chain Challenges
- VI-2 Presentations focused on optimizing Mooring Solutions
- VI-3 Presentations focused on driving-down costs & addressing logistics

VII. Floating Substations & Power Cables - Experiences & Challenges

- VII-1 Cost & Benefit Trade-off?
- VII-2 How many are we going to need @ GW Scale?
- VII-3 Regional Activity (e.g. the Mediterranean and US West Coast, etc.)
- VII-4 OEM Lead Times
- VII-5 HV/DC Substations
- VII-6 HV/DC Power Cables Dynamic Array & Exports

VIII. A Panel Discussion on 'Both Sides' of Bankability, Addressing Project & Technology Risk

(a Moderated Panel discussion to include a MIX of Stakeholders: leading-Developers, Tier-one EPCI Contractors, Investors (PE, Banks & Capital Providers) & Insurers).

- VIII-1 An overview of IMCA's Offshore Wind Guiding Principles (*Blueprint for Industry Competitiveness*)
- VIII-2 Contracting Strategies, De-risking Projects and Bankability
- VIII-3 New / Alternative Business Models in Support of Bankability

IX. A Perspective from Vessel Installation Contractors Panel Discussion

- IX-1 WHAT are we investing into?
- IX-2 Timing to build given converging set of timelines
- IX-3 LIMITATIONS - What is available vessel capacity? Where are you going to build?
- IX-4 Purpose Built – Build the RIGHT Vessel
- IX-5 Vessel Conversions to meet need
- IX-6 Fabrication & Shipyard space - Which places are ready to go and which need development?

X. ***Unique Challenges to Floating Wind in the U.S. Market and Support & Investment***
Requirements of Industry Panel Discussion

Featured Keynote (Invited): Jocelyn Brown-Saracino, Offshore Wind Lead at U.S. Department of Energy (DOE), DOE.

- X-1 What are U.S. industry needs to meet DoE's 'Energy Earthshots' goals for cost reduction?
- X-2 Logistical challenges and solutions for US West Coast Floating wind
- X-3 How does the Floating wind industry get to GW-scale manufacturing & deployment needed in the U.S.
- X-4 Subsea HV systems
- X-5 Grid Connections
- X-6 Ports & Harbors
 - e.g. Crowley Maritime - Port of Humboldt Bay
- X-7 A perspective from the Local Supply Chain
 - A perspective from the local supply chain in California where first projects are awarded, to hear about actual ongoing initiatives for FOW.