

Tuesday | August 6, 2024

Tech RD&T Land-based Wind Tech RD&T Offshore Wind

Systems Integration

Distributed Wind

Environmental, Siting, Workforce, and Stakeholder Engagement

Start Time	Topic	Location
9:00 a.m.	Opening Remarks and Introduction to the Peer Review Eric Lantz Director, U.S. Department of Energy Wind Energy Technologies Office (WETO)	
9:15 a.m.	Keynote Address Alicia Barton CEO, Vineyard Offshore	
9:40 a.m.	Break	
9:50 a.m.	Offshore Wind Program Overview Jocelyn Brown-Saracino Offshore Wind Lead, WETO	
10:15 a.m.	Land-based Wind Program Overview Mike Derby Program Manager, Technology Research, Development, & Testing Program, WETO	The Forum
10:40 a.m.	Distributed Wind Program Overview Patrick Gilman Program Manager, WETO	
11:05 a.m.	Break	
11:15 a.m.	Systems Integration Program Overview Jian Fu Program Manager, Systems Integration, WETO	
11:40 a.m.	Data, Modeling, and Analysis Program Overview Patrick Gilman Program Manager, WETO	
12:05 p.m.	Lunch	

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Stakeholder Engagement							
Location							
Start Time	The Forum	Central Hub	South Hub	North Hub			
1:10 p.m.	Tech RD&T Crosscut Overview* Mike Derby	Systems Integration Introduction Jian Fu	Distributed Wind Introduction Patrick Gilman	Wind & Wildlife Overview Joy Page			
1:30 p.m.	TC01: ORACLE with Mesoscale-Microscale Coupling and Offshore Wind Atmospheric Coupling	S01: Atlantic Offshore Wind Transmission Study	TD01: Optimal Operation & Impact Assessment of DW for Improving Efficiency & Resilience of Rural Electricity	E01: WREN & Wind Energy Environment			
2:00 p.m.	TC02: Energy Research and Forecast Modeling	S02: Understanding Protection & HVDC Breaker Needs for OS Grid Developments in the Atlantic Region	TD02: Wind Intelligently Integrated into Rural Energy Systems (WIIRES)	E02: Wind Operational Issue Mitigation			
2:30 p.m.	Break	Break	Break	Break			
2:40 p.m.	TC03: Floating Turbine High- Fidelity Modeling and Simulation	S03: TOGETs & Enhancing Weather Forecasts for Increased Grid Reliability for Wind with DLR	TD03: Rural Area Distributed Wind Integration Network Development (RADWIND)	E03: Advancing Avian Detection & Monitoring in Offshore Environments - Great Lakes Validation			
3:10 p.m.	TC04: Holistic, Multi-Fidelity Wind Farm Design Optimization and Model Coordination	S04: Regulatory, Siting, and Construction Barriers to Bulk Transmission	TD04: Distributed Energy Resource Business Model for Rural Cooperative DW Microgrids	E04: Bat Radio Frequency Transmitter R&D			
3:40 p.m.	Break	Break	Closing	Break			
3:50 p.m.	TC05: Path to Nationwide Hybrids	S05: WindVSG & Advanced Modeling, Dynamic Stability Analysis, & Mitigation of Control Interactions in Wind		E05: Evaluation TIMR Technology as a Smart Curtailment Approach			
4:20 p.m.	TC06: Offshore Wind Plant Controls	S06: Wind as a Real Synchronous Generator		E06: Multi-Sensor Approach for Measuring Bird & Bat Collisions w/ OSW Turbines			
4:50 pm	TC07: Carbon Fiber Material Design for Targeted Performance Enhancement	Closing		Closing			
5:20 p.m.	Closing						

Wednesday | August 7, 2024

Tech RD&T Land-based Wind Tech RD&T Offshore Wind

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Environmental, Siting,
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Location						
Start Time	The Forum	Central Hub	South Hub	North Hub		
9:00 a.m.	Opening Remarks United States Congressional Member Video (invited)					
9:10 a.m.	Keynote Address TBD					
9:35 a.m.	International Energy Agency (IEA) Presentation Jim Ahlgrimm Deputy Director, WETO					
10:00 a.m.	Tech RD&T Land-based Overview Ben Hallissy	S07: Universal Interoperability for Grid- Forming Inverters (UNIFI) Consortium	Tech RD&T Offshore Overview Nate McKenzie	Siting R&D Overview Joy Page		
10:30 a.m.	TL01: Wind Forecasting for Tall Turbines Across Regions w/ Terrain & Land Surface Heterogeneity	S08: Advanced Standardized Wind Models for Fast Dynamics & SC analysis	TO01: Influences of Future Tropical and Extratropical Storms on Wind Energy	E07: US Wind Turbine Database and Location Impacts R&D		
11:00 a.m.	Break	Break	Break	Break		
11:10 a.m.	TL02: American Wake Experiment (AWAKEN)	S09: GridPACKTM-Wind: High Performance Modeling & Simulation for Wind Integration	TO02: Lidar Buoy Deployments and Lidar Buoy Science	E08: Siting - Radar Wind- Turbine RCS Mitigation (FAA)		
11:40 a.m.	TL03: Rotor Wake Measurements & Predictions for Validation (RAAW)	S10: National Intra-hour Wind Power Production Database	TO03: Wind Forecast Improvement Project 3 (WFIP3)	E09: Siting - Radar Wind- Turbine RCS Mitigation (MIT-LL)		
12:10 p.m.		Lunci	h			
1:10 p.m.	TL04: Additive Hybrid Tall Towers	TD05: Competitiveness Improvement Project (CIP)	TO04: OSW System Design & Tool Validation	STEM, Workforce, and Stakeholder Engagement Overview Laura Hastings		
1:40 p.m.	TL05: On-site Spiral Welded Towers Enabling High Hub Heights	TD06: Distributed Wind Aeroelastic Modeling	TO05: Floating Wind Array Design	E10: WINDExchange Stakeholder Engagement and Outreach		
2:10 p.m.	Break	Break	Break	Break		
2:20 p.m.	TL06: Big Adaptive Rotor	TD07: Tools Assessing Performance (TAP)	TO06: High Efficiency Ultra- Light Superconducting Generator (SCG)	E11: Collegiate Wind Competition		
2:50 p.m.	TL07: Manufacturing & Additive Design of an Electric Machine enabled by 3D printing (MADE3D)	TD08: Wind Hybrid Integration Platform (WHIP)	TO07: National Offshore Wind Research and Development Consortium	E12: Wind for Schools & Wind Workforce		
3:20 p.m.	Closing	Closing	Closing	Closing		

Thursday | August 8, 2024

Tech RD&T Tech RD&T **Systems Integration Distributed Wind Land-based Wind Offshore Wind Start Time** The Forum **Central Hub South Hub North Hub** TO08: 2019 Facilities FOA -TL08: Wind Turbine 9:00 a.m. S11: WindSHIELD Summary of 6 awards **Drivetrain Reliability** S12: WindWeasel: PLC TL09: WT Blade TO09: Floating Offshore Wind 9:30 a.m. Monitoring, Analysis, and **Durability & Damage** ReadINess (FLOWIN) Prize Alerting System Tolerance 10:00 a.m. **Break Break Break** TO10: West Coast Port TL10: 10:10 a.m. S13: GreenHeart Strategy for Commercial Wind Technology Networking Recycling Assessment Scale Floating Wind Arrays S14: Wind Grid Integration TO11: New England Aqua 10:40 a.m. Closing Ventus I Stakeholder Engagement TO12: Full-scale Floating OSW Turbine (FOWT) 11:10 a.m. Closing Platform in U.S. OCS Atlantic Region 11:40 a.m. Closing 11:50 a.m. Lunch The Forum 1:00 p.m.-Peer Review Debrief | Closed Door, Reviewers and WETO Staff Only 3:00 p.m.