U.S. DEPARTMENT OF ENERGY WIND ENERGY TECHNOLOGIES OFFICE

HOSTED AT THE HILTON ALEXANDRIA OLD TOWN 1767 KING ST | ALEXANDRIA, VA 22314

2019 PROJECT

April 30, 2	019 Technol	logy Development				
Start	End	Project Name	Track	Session	Room	Presenter
8:00 AM	8:30 AM	Breakfast			Grand Ballroom A&B	
8:30 AM	9:00 AM	DOE - Program Director, WETO - Valerie Reed	Plenary	Plenary	Grand Ballroom A&B	Reed
9:00 AM	9:30 AM	Keynote Speaker - Henrik Stiesdal	Plenary	Plenary	Grand Ballroom A&B	Stiesdal
9:30 AM	9:50 AM	DOE - Assistant Secretary, EERE - Daniel Simmons	Plenary	Plenary	Grand Ballroom A&B	Simmons
9:50 AM	10:20 AM	Overview of MA&D Program	Plenary	Plenary	Grand Ballroom A&B	Brown-Saracino
10:20 AM	10:50 AM	Overview of TD Program	Plenary	Plenary	Grand Ballroom A&B	Derby
10:50 AM	11:05 AM	Break				
11:05 AM	11:20 AM	Overview of Analysis & Modeling	Plenary	Analysis and Modeling	Grand Ballroom A&B	Gilman
11:20 AM	11:50 AM	Modeling & Analysis to Inform WETO R&D	Plenary	Analysis and Modeling	Grand Ballroom A&B	Wiser
11:50 AM	12:20 PM	Distributed Wind Research, Development, and Testing (PNNL)	Plenary	Analysis and Modeling	Grand Ballroom A&B	Orrell
12:20 PM	1:20 PM	Lunch			Grand Ballroom A&B	
1:20 PM	1:45 PM	Land Based and Offshore Wind Plant Technology- Characterization and System Cost of Energy Analysis Involving Data Collection, Model Development, and Analysis Activities	Plenary	Analysis and Modeling	Grand Ballroom A&B	Lantz
1:45 PM	2:10 PM	Offshore Wind Strategy Follow on Analysis	Plenary	Analysis and Modeling	Grand Ballroom A&B	Barter
2:10 PM	2:35 PM	Techno-Economic Modeling, Analysis and Support for HQ Taskers/Urgent Needs	Plenary	Analysis and Modeling	Grand Ballroom A&B	Lantz
2:35 PM	2:50 PM	Future Work for NREL Wind Analysis	Plenary	Analysis and Modeling	Grand Ballroom A&B	Lantz
2:50 PM	3:05 PM	Transition				
3:05 PM	3:20 PM	Overview of Offshore Specific R&D	Technology Development	Offshore Specific R&D	Grand Ballroom C	Norton
3:20 PM	3:50 PM	Cost Of Energy reduction for offshore Tension Leg Platform (TLP) wind turbine systems through advanced control strategies for energy yield improvement, load mitigation and stabilization	Technology Development	Offshore Specific R&D	Grand Ballroom C	Norton
3:50 PM	4:20 PM	Project Icebreaker	Technology Development	Offshore Specific R&D	Grand Ballroom C	Wagner
4:20 PM	4:35 PM	Break				
4:35 PM	5:05 PM	Aqua Ventus	Technology Development	Offshore Specific R&D	Grand Ballroom C	Dagher
5:05 PM	5:35 PM	Offshore Resource Characterization	Technology Development	Offshore Specific R&D	Grand Ballroom C	Shaw
5:35 PM	6:05 PM	Optional: Peer Reviewer Debrief			Madison	

Office of ENERGY EFFICIENCY & RENEWABLE ENERGY

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U.S. DEPARTMENT OF ENERGY WIND ENERGY TECHNOLOGIES OFFICE

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May 1, 201	9 Technolog	y Development				
Start	End	Project Name	Track	Session	Room	Presenter
8:00 AM	8:30 AM	Breakfast			Grand Ballroom A&B	
8:30 AM	8:50 AM	Keynote Speaker - Bill Mahoney	Plenary	Plenary	Grand Ballroom A&B	Mahoney
8:50 AM	9:20 AM	Overview of WETO Communications & Operations	Plenary	Plenary	Grand Ballroom A&B	Hartman
9:20 AM	9:30 AM	Transition				
9:30 AM	10:00 AM	Overview of Atmosphere to Electrons (A2e)	Technology Development	A2e	Grand Ballroom C	Robinson
10:00 AM	10:30 AM	Atmospheric Science - A2e PRUF	Technology Development	A2e	Grand Ballroom C	Fields
10:30 AM	10:45 AM	Break				
10:45 AM	11:35 AM	Atmospheric Science - A2e: Mesoscale Physics and Inflow: WFIP 2 (+FOA awardee)	Technology Development	A2e	Grand Ballroom C	Shaw, Turner
11:35 AM	12:15 PM	Atmospheric Science - MMC - Model Development & Validation	Technology Development	A2e	Grand Ballroom C	Haupt
12:15 PM	1:15 PM	Lunch			Grand Ballroom A&B	
1:15 PM	1:55 PM	Wind Plant Science - High-Fidelity Modeling	Technology Development	A2e	Grand Ballroom C	Sprague
1:55 PM	2:25 PM	Wind Plant Science - Rotor Wake Measurements & Predictions for Validation	Technology Development	A2e	Grand Ballroom C	Moriarty
2:25 PM	2:55 PM	Wind Plant Science - Advanced Flow Control Science for Wind Plants	Technology Development	A2e	Grand Ballroom C	Fleming
2:55 PM	3:15 PM	Wind Plant Science - Small Business Vouchers - WindESCo	Technology Development	A2e	Grand Ballroom C	Fleming, King
3:15 PM	3:30 PM	Break				
3:30 PM	4:00 PM	Integrated Systems Design - Multi Physics Model Validation & UQ	Technology Development	A2e	Grand Ballroom C	Jonkman
4:00 PM	4:30 PM	Integrated Systems Design and Analysis	Technology Development	A2e	Grand Ballroom C	Barter
4:30 PM	5:00 PM	Integrated Systems Design and Analysis (OSW)	Technology Development	A2e	Grand Ballroom C	Robertson
5:00 PM	5:05 PM	Break				
5:05 PM	5:20 PM	Overview of Distributed Wind R&D	Technology Development	Distributed Wind R&D	Grand Ballroom C	Gilman
5:20 PM	5:50 PM	Distributed Wind Research, Development, and Testing	Technology Development	Distributed Wind R&D	Grand Ballroom C	Baring-Gould
5:50 PM	6:20 PM	Optional: Peer Reviewer Debrief			Madison	

U.S. DEPARTMENT OF ENERGY WIND ENERGY TECHNOLOGIES OFFICE

U.S. DEPARTMENT OF ENERGY Office of

May 2, 2019 Technology Development							
Start	End	Project Name	Track	Session	Room	Presenter	
8:00 AM	8:30 AM	Breakfast			Grand Ballroom A&B		
8:30 AM	8:50 AM	Keynote Speaker - Paul Donley	Plenary	Plenary	Grand Ballroom A&B	Donley	
8:50 AM	9:10 AM	Multi-Year Program Plan	Plenary	Plenary	Grand Ballroom A&B	Ahlgrimm	
9:10 AM	9:20 AM	Transition					
9:20 AM	9:35 AM	Overview of Testing Infrastructure Program	Technology Development	Testing Infrastructure	Grand Ballroom C	Ahlgrimm	
9:35 AM	10:05 AM	Testing Facilities and Capabilities at NWTC	Technology Development	Testing Infrastructure	Grand Ballroom C	Simms	
10:05 AM	10:35 AM	Testing Facilities and Capabilities at Sandia: Field Test Facilities - DOE Turbine Facilities and Test Sites O&M	Technology Development	Testing Infrastructure	Grand Ballroom C	Berg	
10:35 AM	10:45 AM	Break					
10:45 AM	11:00 AM	Overview of Standards Support & International Engagement	Technology Development	Standards Support & International Engagement	Grand Ballroom C	Ahlgrimm	
11:00 AM	11:30 AM	Wind Standards Development	Technology Development	Standards Support & International Engagement	Grand Ballroom C	van Dam	
11:30 AM	11:40 AM	Break					
11:40 AM	11:50 AM	Overview of Technology to Market Activities & Small Business Voucher Program	Technology Development	Technology-to-Market / Small Business Vouchers	Grand Ballroom C	Lemke	
11:50 AM	12:10 PM	Technology to Market (T2M)	Technology Development	Technology-to-Market / Small Business Vouchers	Grand Ballroom C	Lemke, Aston	
12:10 PM	12:45 PM	Small Business Vouchers - Micron/NIRE/ SkySpecs	Technology Development	Technology-to-Market / Small Business Vouchers	Grand Ballroom C	Paquette, Ennis, Berg	
12:45 PM	1:45 PM	Lunch			Grand Ballroom A&B		
1:45 PM	2:00 PM	Overview of Advanced Components, Reliability, and Manufacturing	Technology Development	Advanced Components, Reliability, & Manufacturing	Grand Ballroom C	Ring	
2:00 PM	2:30 PM	Optimized Carbon Fiber Composites for Wind Turbine Blades	Technology Development	Advanced Components, Reliability, & Manufacturing	Grand Ballroom C	Ennis	
2:30 PM	3:00 PM	Big Adaptive Rotor	Technology Development	Advanced Components, Reliability, & Manufacturing	Grand Ballroom C	Paquette	
3:00 PM	3:15 PM	Break					
3:15 PM	3:45 PM	Additive Manufacturing in Wind Turbine Components and Tooling	Technology Development	Advanced Components, Reliability, & Manufacturing	Grand Ballroom C	Post	
3:45 PM	4:05 PM	Small Business Vouchers - Tower Technology	Technology Development	Technology-to-Market / Small Business Vouchers	Grand Ballroom C	Veers	
4:05 PM	4:35 PM	Wind Turbine Blade Durability and Damage Tolerance	Technology Development	Advanced Components, Reliability, & Manufacturing	Grand Ballroom C	Paquette	
4:35 PM	4:50 PM	Break					
4:50 PM	5:10 PM	Small Business Vouchers - Sentient	Technology Development	Technology-to-Market / Small Business Vouchers	Grand Ballroom C	Ennis	
5:10 PM	5:50 PM	Wind Turbine Drivetrain Reliability	Technology Development	Advanced Components, Reliability, & Manufacturing	Grand Ballroom C	Keller	
5:50 PM	6:20 PM	Optional: Peer Reviewer Debrief			Madison		

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2019 PROJECT

April 30, 2	019 - Marke	t Acceleration & Deployment				
Start	End	Project Name	Track	Session	Room	Presenter
8:00 AM	8:30 AM	Breakfast			Grand Ballroom A&B	
8:30 AM	9:00 AM	DOE - Program Director, WETO - Valerie Reed	Plenary	Plenary	Grand Ballroom A&B	Reed
9:00 AM	9:30 AM	Keynote Speaker - Henrik Stiesdal	Plenary	Plenary	Grand Ballroom A&B	Stiesdal
9:30 AM	9:50 AM	DOE - Assistant Secretary, EERE - Daniel Simmons	Plenary	Plenary	Grand Ballroom A&B	Simmons
9:50 AM	10:20 AM	Overview of MA&D Program	Plenary	Plenary	Grand Ballroom A&B	Brown- Saracino
10:20 AM	10:50 AM	Overview of TD Program	Plenary	Plenary	Grand Ballroom A&B	Derby
10:50 AM	11:05 AM	Break				
11:05 AM	11:20 AM	Overview of Analysis & Modeling	Plenary	Analysis and Modeling	Grand Ballroom A&B	Gilman
11:20 AM	11:50 AM	Modeling & Analysis to Inform WETO R&D	Plenary	Analysis and Modeling	Grand Ballroom A&B	Wiser
11:50 AM	12:20 PM	Distributed Wind Research, Development, and Testing (PNNL)	Plenary	Analysis and Modeling	Grand Ballroom A&B	Orrell
12:20 PM	1:20 PM	Lunch			Grand Ballroom A&B	
1:20 PM	1:45 PM	Land Based and Offshore Wind Plant Technology-Characterization and System Cost of Energy Analysis Involving Data Collection, Model Development and Analysis Activities	Plenary	Analysis and Modeling	Grand Ballroom A&B	Lantz
1:45 PM	2:10 PM	Offshore Wind Strategy Follow on Analysis	Plenary	Analysis and Modeling	Grand Ballroom A&B	Barter
2:10 PM	2:35 PM	Techno-Economic Modeling, Analysis and Support for HQ Taskers/Urgent Needs	Plenary	Analysis and Modeling	Grand Ballroom A&B	Lantz
2:35 PM	2:50 PM	Future Work for NREL Wind Analysis	Plenary	Analysis and Modeling	Grand Ballroom A&B	Lantz
2:50 PM	3:05 PM	Transition				
3:05 PM	3:20 PM	Overview of Stakeholder Engagement & Workforce Development	Market Acceleration & Deployment	Stakeholder Engagement & Workforce Development	Potomac	Yancey, Brown- Saracino
3:20 PM	3:50 PM	WindExchange and Regional Resource Centers	Market Acceleration & Deployment	Stakeholder Engagement & Workforce Development	Potomac	Baring- Gould
3:50 PM	4:20 PM	Collegiate Wind Competition	Market Acceleration & Deployment	Stakeholder Engagement & Workforce Development	Potomac	Baring- Gould
4:20 PM	4:50 PM	Wind for Schools	Market Acceleration & Deployment	Stakeholder Engagement & Workforce Development	Potomac	Baring- Gould
4:50 PM	5:20 PM	Optional: Peer Reviewer Debrief			Madison	

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May 1, 2019 - Market Acceleration & Deployment							
Start	End	Project Name	Track	Session	Room	Presenter	
8:00 AM	8:30 AM	Breakfast			Grand Ballroom A&B		
8:30 AM	8:50 AM	Keynote Speaker - Bill Mahoney	Plenary	Plenary	Grand Ballroom A&B	Mahoney	
8:50 AM	9:20 AM	Overview of WETO Communications & Operations	Plenary	Plenary	Grand Ballroom A&B	Hartman	
9:20 AM	9:30 AM	Transition					
9:30 AM	9:50 AM	Environmental Research: Program Overview & National Lab Research	Market Acceleration & Deployment	Environmental Research	Potomac	Brown- Saracino	
9:50 AM	10:35 AM	Wind Operational Issue Mitigation (NREL)	Market Acceleration & Deployment	Environmental Research	Potomac	Hein	
10:35 AM	11:05 AM	Wind Operational Issue Mitigation (PNNL)	Market Acceleration & Deployment	Environmental Research	Potomac	Copping	
11:05 AM	11:10 AM	Break					
11:10 AM	11:25 AM	Environmental Research: Overview of Eagle FOA	Market Acceleration & Deployment	Environmental Research	Potomac	Brown- Saracino	
11:25 AM	11:55 AM	Detection and Perception of Sound by Eagles and Surrogate Raptors	Market Acceleration & Deployment	Environmental Research	Potomac	Marr	
11:55 AM	12:25 PM	Understanding the Golden Eagle Sensory World to Enhance Detection and Response to Wind Turbines	Market Acceleration & Deployment	Environmental Research	Potomac	Tisch	
12:25 PM	1:25 PM	Lunch			Grand Ballroom A&B		
1:25 PM	1:55 PM	A Heterogeneous System for Eagle Detection, Deterrent, and Wildlife Collision Detection for Wind Turbines	Market Acceleration & Deployment	Environmental Research	Potomac	Johnston	
1:55 PM	2:15 PM	Eagle Take Minimization System (Laufer)	Market Acceleration & Deployment	Environmental Research	Potomac	Tisch	
2:15 PM	2:45 PM	Evaluating the Effectiveness of a Detection and Deterrent System in Reducing Golden Eagle Fatalities at Operational Wind Facilities	Market Acceleration & Deployment	Environmental Research	Potomac	Allison	
2:45 PM	3:15 PM	Evaluating the Effectiveness of a Camera- Based Detection System to Support Informed Curtailment and Minimize Eagle Fatalities at Wind Energy Facilities	Market Acceleration & Deployment	Environmental Research	Potomac	Allison	
3:15 PM	3:30 PM	Break					
3:30 PM	3:45 PM	Environmental Research: Overview of Bat FOA	Market Acceleration & Deployment	Environmental Research	Potomac	Brown- Saracino	
3:45 PM	4:05 PM	A Biomimetic Ultrasonic Whistle for Use as a Bat Deterrent on Wind Turbines	Market Acceleration & Deployment	Environmental Research	Potomac	Brown- Saracino	
4:05 PM	4:25 PM	Texturizing Wind Turbine Towers to Reduce Bat Mortality	Market Acceleration & Deployment	Environmental Research	Potomac	Brown- Saracino	
4:25 PM	4:45 PM	Rotor-Mounted Bat Impact Mitigation System	Market Acceleration & Deployment	Environmental Research	Potomac	Brown- Saracino	
4:45 PM	5:05 PM	Ultrasonic Bat Deterrent Technology	Market Acceleration & Deployment	Environmental Research	Potomac	Kinzie	
5:05 PM	5:25 PM	Evaluating the Effectiveness of Ultrasonic Acoustic Deterrents in Reducing Bat Fatalities at Wind Energy Facilities	Market Acceleration & Deployment	Environmental Research	Potomac	Hein	
5:25 PM	5:55 PM	Optional: Peer Reviewer Debrief			Madison		

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May 2, 201	9 - Market A	Acceleration & Deployment				
Start	End	Project Name	Track	Session	Room	Presenter
8:00 AM	8:30 AM	Breakfast			Grand Ballroom A&B	
8:30 AM	8:50 AM	Keynote Speaker - Paul Donley	Plenary	Plenary	Grand Ballroom A&B	Donley
8:50 AM	9:10 AM	Multi-Year Program Plan	Plenary	Plenary	Grand Ballroom A&B	Ahlgrimm
9:10 AM	9:20 AM	Transition				
9:20 AM	9:35 AM	Overview of Siting & Wind Radar Mitigation	Market Acceleration & Deployment	Regulatory & Siting	Potomac	Gilman
9:35 AM	10:05 AM	Siting - Radar Wind-Turbine RCS Mitigation	Market Acceleration & Deployment	Regulatory & Siting	Potomac	Karlson
10:05 AM	10:35 AM	Siting - Radar Wind-Turbine RCS Mitigation MIT Lincoln Labs	Market Acceleration & Deployment	Regulatory & Siting	Potomac	Biddle
10:35 AM	11:05 AM	National Wind Turbine Database and Location Impacts R&D	Market Acceleration & Deployment	Regulatory & Siting	Potomac	Hoen
11:05 AM	11:20 AM	Break				
11:20 AM	11:35 AM	Overview of Advanced Grid Integration	Market Acceleration & Deployment	Grid Integration	Potomac	Fu
11:35 AM	12:05 PM	Operational and Strategic Implementation of Dynamic Line Rating for Optimized Wind Energy Generation Integration	Market Acceleration & Deployment	Grid Integration	Potomac	Gentle
12:05 PM	12:35 PM	Market and Reliability Opportunities for Wind on the Bulk Power System	Market Acceleration & Deployment	Grid Integration	Potomac	Lau
12:35 PM	1:35 PM	Lunch			Grand Ballroom A&B	
1:35 PM	2:05 PM	North American Renewable Integration Study	Market Acceleration & Deployment	Grid Integration	Potomac	Brinkman
2:05 PM	2:35 PM	Power System Reliable Integration Support to Achieve Large Amounts of Wind Power (PRISALA)	Market Acceleration & Deployment	Grid Integration	Potomac	Corbus
2:35 PM	2:50 PM	Break				
2:50 PM	3:20 PM	Providing Ramping Service with Wind to Enhance Power System Operational Flexibility	Market Acceleration & Deployment	Grid Integration	Potomac	Hodge
3:20 PM	3:50 PM	WindView: An Open Platform for Wind Energy Forecast Visualization	Market Acceleration & Deployment	Grid Integration	Potomac	Hodge
3:50 PM	4:20 PM	Understanding the Role of Short-term Energy Storage and Large Motor Loads for Active Power Controls by Wind Power	Market Acceleration & Deployment	Grid Integration	Potomac	Gevorgian
4:20 PM	4:50 PM	Optional: Peer Reviewer Debrief			Madison	