

IEA Task 41 Distributed Wind In-person and Virtual Meetings

Boulder, Colorado

26 - 28 October 2023

Ian Baring-Gould, ian.baring-gould@nrel.gov

Danielle Prezioso, danielle.prezioso@pnnl.gov

Trudy Forsyth, trudyforsyth2@gmail.com



Zoom:

<https://pnnl.zoomgov.com/j/1616701801?pwd=L1NCOUpWRFESaTFTd3d0VjlpbTV3Zz09>

Meeting ID: 161 670 1801

Passcode: 099832

Wednesday 25 October 2023

18:30 MST

Informal Arrival Gathering and Dinner

Aloy Thai

2720 Canyon Blvd, Boulder, CO 80302

<https://www.aloythai.com/>

Thursday 26 October 2023

Time	Session	Lead	Format
Virtual Session			
07:00 – 7:30 MST			
15:00 – 15:30 EU CET	Welcome and Introductions	Ian Baring-Gould	Virtual
21:00 – 21:30 AWST			
07:30 – 10:00 MST	Work Package #1a: Research to Inform Standards		
17:30 – 18:00 EU CET			
23:30 – 24:00 AWST			
	Intro		
	- Overview of work packages		
	- WP1A-1: data mining	Dr. Mark Runacres	Virtual
	Presentation(s) of ongoing related work		
	- Currently available data sets		
	- Do we have enough data? If not, what else are we looking for?		

	<ul style="list-style-type: none"> - Lidar and turbulence: do we include Lidar data? <p>Group discussion</p> <ul style="list-style-type: none"> - Which turbulent features do we want to use in the classification (WP1A-2), which classification techniques, who can help? 		
10:00 – 14:30 MST	Break and lunch on your own		
14:30	Arrive at the NREL Flatirons Campus We will arrange carpools to campus. Please let Ian, Trudy, or Danielle know if you need transportation.		
15:00 – 16:30 MST 23:00 – 00:30 EU CET* 05:00 – 06:30 AWST*	Work Package #4: Information Dissemination Intro <ul style="list-style-type: none"> - Fact sheet template posted on Task SharePoint - Task 41 video(s) <p>Presentation(s) of ongoing related work</p> <ul style="list-style-type: none"> - Report out on the Small and Medium Wind Energy conference and future events – Tonny Brink - Initial Planning and Zoning Summary Table – Trudy Forsyth <p>Group discussion</p> <ul style="list-style-type: none"> - Capstone publication <ul style="list-style-type: none"> o Topic o Scope o Lead <p>Next steps</p> <ul style="list-style-type: none"> - Need for additional outreach materials? - Planned conference participation 	Danielle Prezioso Ian Baring-Gould	Hybrid
16:30 – 17:00 MST	Break		
17:00 – 19:00 MST 01:00 – 03:00 EU CET* 07:00 – 09:00 AWST*	Work Package #3: Grid and System Integration Intro <ul style="list-style-type: none"> - Reorganizing and focus on microgrid grids, behind-the-meter and front-of-the meter 	Dr. Asma Aziz Dr. Andrea Kraj Ian Baring-Gould	Hybrid

Presentation(s) of ongoing related work

- Australian case studies and near-term research on HPS – Asma Aziz PhD, Cowan University
- Canadian case studies and near-term research on HPS – Andrea Kraj PhD, Core Renewable Energy
- US case studies and near-term research on HPS – Ian Baring-Gould, NREL
- HOPP and value of wind resiliency – Caitlyn Clark, NREL
- Thesis summary on comparative studies on the state-of-the-art of micro-grids behind-the-meter and front-of-the-meter – Andrea Kraj, Core Renewable Energy

Group discussion

- Next steps? Other partners who want to join WP3?

19:00 – 19:15 MST

03:00 – 03:15 EU CET

Closeout Session

Ian Baring-Gould

Hybrid

09:00 – 09:15 AWST

19:30 MST

Informal Team Dinner

Location TBD

Friday 27 October 2023

Time	Session	Lead	Format
Virtual Session			
07:00 – 07:30 MST			
15:00 – 15:30 EU CET	Welcome Back	Ian Baring-Gould	Virtual
21:00 – 21:30 AWST			
Work Package #1b: Research to Inform Standards – Loads Assessment and Modeling			
07:30 – 10:00 MST	Intro	Dr. Francesco Castellani	Virtual
15:30 – 18:00 EU CET	- WP1b – Summary	Dr. David Wood	
21:30 – 24:00 AWST	○ Objectives		
	○ Milestones		
	○ Next Steps		

	<p>Presentation(s) of ongoing related work</p> <ul style="list-style-type: none"> - "OpenFast SWT simulation" – David Wood - "Bio-Inspired and Multiple Blades SWT configurations" – Francesco Castellani <p>Group discussion</p>		
10:00 – 11:45 MST	Break		
11:45	<p>Arrive at the NREL Flatirons Campus</p> <p>We will arrange carpools to campus. Please let Ian, Trudy, or Danielle know if you need transportation.</p>		
12:00 – 13:00 MST	<p>Lunch</p> <p>Lunch will be provided on campus.</p>		
13:00 – 14:00 MST	Tour of NREL's Flatiron Campus		In-Person
14:00 – 16:00 MST 22:00 – 00:00 EU CET 04:00 – 06:00 AWST*	<p>Work Package #6: Social Science Research – Human Dimensions</p> <p>Intro</p> <ul style="list-style-type: none"> - WP challenge: Tarquti Energy cannot contribute to the valuation exercise. They need to prioritize other work. <p>Presentation(s) of ongoing related work</p> <ul style="list-style-type: none"> - Lessons learned on acceptance and hurdles of small wind in Austria <p>Group discussion</p> <ul style="list-style-type: none"> - Collaborative work in groups per each country (e.g., google mind map or survey) on experiences with approval procedure in other countries. - Group discussion about other potential contributors to this valuation exercise and motivation to convince them to participate. 	<p>Dominic Bolduc Alex Hirschl</p>	Hybrid

	<p>Next steps</p> <ul style="list-style-type: none"> - Find members of Task 41 to contribute with a chapter in the deliverable. Topic: experiences with approval procedure of small wind. - Find another community/project for this WP 	
16:00 – 16:30 MST	Break	
16:30 – 17:30 MST 00:30 – 1:30 EU CET* 06:30 – 07:30 AWST*	Closeout Session	Hybrid
18:00 MST	Hosted Dinner at Trudy's House 8460 W. 106 th Ave. Broomfield, CO 80021	

Saturday October 28 2023

Time	Session	Lead	Format
08:45-9:00 MST	Arrive at Hotel Boulderado 2115 13th St, Boulder, CO 80302 Coffee and hot beverages will be provided. We will arrange carpools to the hotel. Please let Ian, Trudy, or Danielle know if you need transportation.		Hybrid
09:00 – 11:00 MST 17:00 – 19:00 EU CET 23:00 – 01:00 AWST	Work Package #5 – Innovation and Technical Specifications 5.1 - Cold climate specification 5.2 - Recyclability & Sustainability		
	Intro <ul style="list-style-type: none"> - Delay on milestone M5-1 with Task 54: Unable to last Winterwind and the annual Task 54 meeting is at the same time as ours in Calgary. We need to find another date. 	Ignacio Cruz Dominic Bolduc David Wood	Hybrid
	Presentation(s) of ongoing related work <ul style="list-style-type: none"> - Recent work undertaken by Nergica regarding technical specifications in cold climate for small to medium size wind turbine deployed in northern Canada (~10-15min) 		

Group discussion

- Task member concerns about cold climate specifications

Next steps

- Reschedule Task 54 meeting. This might delay D5-1 that was due for March 2024.

11:00 – 11:15 MST

19:00 – 19:15 EU CET

01:00 – 01:15 AWST*

Closeout Session

Ian Baring-Gould

Hybrid

12:00 MST

Informal lunch

TBD

1:00 MST

Personal time or group outdoor activity in Boulder

Sunday October 29 2023

For those staying for the NAWEA / Wind Tech conference, we can discuss a day trip into the Colorado Rockies or we can recommend some locations where people could spend Saturday and/or Sunday night.

* Will occur the following day in the listed time zones.