



IEA Wind Task 51 Workshop

Data and Forecasting Challenges for the Transition to an Increasingly Weather-driven Electric System

IEA Wind Task 51 (Forecasting for the Weather-driven Energy System) will host a 4-hour workshop that focuses on the current state-of-the-art, issues and potential solutions to meet the meteorological data and forecasting needs of an increasingly weather-driven electric system. The workshop will open with an overview presentation of the IEA Wind Task 51 objectives, scope, recent activities and plans for the next year and beyond. This will be followed by a panel discussion of meteorological datasets (e.g., “reanalysis” datasets) for grid system planning, which will be a follow-up to workshops on this topic that were held earlier this year at DTU in Denmark and at the National Renewable Energy Laboratory in Colorado. Leaders in the organization of those meetings will serve as panelists. The second half of the event will feature an open-space facilitated discussion among all meeting participants in four fluid topic-focused sub-groups to develop an overview of the community’s perspective on the key issues and possible solutions in each topic area. The topics will include: (1) current and future state-of-the-art in historical datasets and forecasts including the impact of machine learning (ML) and artificial intelligence (AI), (2) defining the scope of applications and the datasets attributes that are important to each, (3) how to effectively evaluate the relative quality of datasets, which is very likely application-dependent and (4) formulation of potential dataset standards for quality, content, format, and access.

All times are Eastern Time (ET)

Tuesday, October 29, 2024 | Zimmerli Art Museum, Rutgers University

1:00 pm – 1:30 pm	<p>Overview of IEA Wind Task 51 Structure and Activities John Zack, Meso Inc.</p>
1:30 pm – 3:00 pm	<p>Panel Discussion: Meteorological Datasets for Grid System Planning Facilitator: John Zack, Meso Inc.</p> <ul style="list-style-type: none"> Julia Gottschall (Fraunhofer IWES): Overview of IEA Wind TEM #111 meeting at DTU (Renalyses for wind energy) and follow-up activities Caroline Draxl (EPRI): Overview of NREL workshop <i>Bridging the gap between atmospheric sciences and grid integration</i> and follow-up activities Justin Sharp (EPRI): Overview of current datasets and challenges, future steps Victoria Rojo (ISO-NE): User perspectives <p>Short presentations will be followed by a guided discussion with all workshop participants.</p>
3:00 pm – 3:30 pm	<p>Networking Break</p>
3:30 pm – 4:50 pm	<p>Open Space Discussions Facilitator: John Zack, Meso Inc.</p> <ul style="list-style-type: none"> Current and Future State-of-the-Art Matching applications and evaluation Standards for Energy Data Collection, Assessment, and Access Topics for Extreme Power System Event workshop in spring 2025
4:50 pm – 5:00 pm	<p>Wrap up & Adjourn Ideas for the next phase of IEA Wind Task 51</p>