



Workshop

Seasonal Forecasting for the Weather Driven Energy System

Stakeholders in the electric energy system have expressed a growing interest in sub-seasonal to seasonal (S2S) forecasting information in their applications. Therefore, to facilitate the dissemination of information about S2S forecasting products, skill, applications, issues, and best practices to members of the electric energy community, the team of the International Energy Agency's (IEA) Wind Task 51 (<https://iea-wind.org/task51/>), entitled "Forecasting for the Weather Driven Energy System", would like to invite you to a S2S forecasting workshop with the goal of gathering information about methods used to produce S2S forecasts, the current state-of-the-art skill in S2S forecasting for variables relevant for energy system applications, current and planned research activities intended to improve the current level of skill, types of public and private sector operational S2S forecasting products, the range of S2S applications in the energy community and the quantified or perceived value obtained from those applications, the sensitivity of user's application performance to variations in forecast skill, and the unmet S2S-forecasting-related needs or desires of the energy user community.

MAY 17–19, 2023 | University of Reading, UK

All times are British Summer Time (UTC+1)

DRAFT AGENDA

Wednesday, May 17, 2023

12:00 – 13:30	Welcome and Keynote <ul style="list-style-type: none">- Welcome by workshop organizers and local hosts- Keynotes on History, Current Status and Challenges of S2S Forecasting- Q&A discussion with input from participants and their expected benefits of this workshop
13:30 – 13:45	Networking Break
13:45 – 15:15	Forecasting Techniques <p>Presentations by forecast producers or researchers</p> <ul style="list-style-type: none">- What methods are currently being used to produce S2S forecasts?- What is the scientific basis and issues for each approach?- Are there characteristic differences in performance among the methods?- Are there emerging methods that have not yet been widely used?
15:50 – 15:30	Networking Break
15:30 – 17:00	Forecast Evaluation <p>Presentations by forecast producers or researchers</p> <ul style="list-style-type: none">- What are the typical forecast parameters and forecast formats?- What metrics are typically used to evaluate forecasts?- What are the limitations/issues with the typical metrics?- Emerging/Alternative approaches to S2S forecast evaluation
18:30	Informal dinner gathering

Thursday, May 18, 2023

8:30 – 10:00	Public Forecast Providers and Products Presentations by public sector providers of S2S forecast products <ul style="list-style-type: none">- Type of forecasts (e.g., time scales, parameters, resolution) produced- What methods are used to produce them?- How is skill measured?- Who are the known users (especially energy-related)?- What feedback has been received from users?- What is the view of these providers on future S2S research priorities?
10:00 – 10:15	Networking Break
10:15 – 11:45	Commercial Forecast Providers and Products Presentations by commercial providers of S2S forecast products <ul style="list-style-type: none">- Type of forecasts (e.g., time scales, parameters, resolution) produced- What methods are used to produce them?- What is the relative role of public sector foundational products versus in-house methods?- Where is the added value relative to public products (e.g., improved accuracy, customization)?- What are the energy-related applications?- How is skill measured?- What feedback has been received from clients?- What is the view of providers on future S2S research priorities?
11:45 – 13:00	Lunch
13:00 – 14:30	Forecast User Experiences Presentations by energy-sector forecast users: Utilities, TSOs, Energy Traders <ul style="list-style-type: none">- Description of their applications- What are forecast requirements of the applications (e.g., parameters, time scales, temporal and spatial resolution)?- What types of forecasts are used?- How is forecast performance measured for each application?- Has the value been quantified? How?- What are the primary unmet needs?
14:30 – 14:45	Networking Break
14:45 – 16:00	Open Space Discussion Facilitated discussion around the presented topics
16:00 – 16:30	Networking Break
16:15 – 17:30	Research Issues and Projects: Current and Envisioned Presentations by researchers engaged in current S2S projects <ul style="list-style-type: none">- What are the high-priority current research issues?- Vision for a realistic 10-year S2S forecasting target
17:30	Workshop Wrap Up and Adjourn

Friday, May 19, 2023

8:30 – 14:00	IEA Wind Task 51 Meeting Visit to National Grid ESO's control room
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