



SafeWind End Users Workshop

Energinet.dk, Fredericia, Denmark

Friday, 2 March 2012

Dear End User of Short-term Forecasting Models for Renewable Energy,

As the SafeWind project (see SafeWind.eu, a follow-up of the ANEMOS and ANEMOS.plus projects) has run for 3 years and developed new models for the forecasting of extremes, it is time for a workshop presenting results for the end users, and to collect input for the preparation of new research topics. The main emphasis of SafeWind is to use large amounts of data in order to get better at the forecasting of extreme events, be it ramps, variability, cut-off or local storms.

In the morning, we would present our work so far, while the afternoon would be reserved for end user presentations and discussion.

Morning Session (0900-1030):

Georges Kariniotakis (Armines), SafeWind leader: Overview of the SafeWind project

- From Anemos to SafeWind : 10 years of front-end research and innovation in wind power forecasting.
- The SafeWind objectives and highlight results
- Challenges in the use of forecasts for power system management.
- What comes next?

Lueder von Bremen (ForWind) and Matthias Lange (energy & meteo systems): Ensemble forecasting and detection of extreme events and fluctuating wind power

- Alerting system by Energy&Meteo: How can large forecasting errors be detected in advance? Which kind of warning or correction can be sent to end-users?
- Improved Ensemble Spread utilising 100m winds
- Spatial Ensemble Modelling of Uncertainty and Extreme Events
- Characterizing Wind Power Fluctuations and their prediction using Ensembles

Thomas Petroligis (ECMWF): ECMWF wind forecasting products

Late Morning Session (1100-1230):

Pierre Pinson and Henrik Madsen (DTU Informatics): Advantages of using probabilistic forecasts of wind power production

Hans Peter (Igor) Waldl (Overspeed): The Anemos prediction system: Probabilistic forecasting, extremes, and beyond.

- Probabilistic forecasting for management of extremes
- The challenge of cut-off predictions
- Operational experience and evaluation

Gitte Agersbæk (Energinet.dk): Visions for future forecasts at Energinet.dk

Afternoon Session (1330-1500):

Lotte H. Rasmussen and Henrik Hansen (Nordjysk Elhandel - NEAS): An independent balance responsible party's use of forecasting

Lars Henrik Hansen (Dong Energy): Forecasting towards finding the optimal spinning reserve (to be confirmed)

Camilla Schaumburg-Müller (Dong Energy): The use of probabilistic forecasts for wind power in the UK market

Vincent Lefieux (RTE): The French TSOs experience with renewables forecasting

Plenary Discussion (1530-1630):

The topics depend somewhat on the interest of the participants. Suggestions from our side are:

- What's the status of forecasting at the most interested users?
- What do you wish from a user interface?
- Are there forecasting needs currently not served by the industry?
- How to use probabilistic forecasts?
- Do you see a need for synchronization of various forecast products (like forecasts for wind and solar power production)?
- Guidelines and recommendations for new and experienced forecast users.

Lunch and coffee will be served. Please register by sending an email to Pia Jørgensen ([pij.at.energinet.dk](mailto:pjij.at.energinet.dk)) or Nina Detlefsen (nid.at.energinet.dk).

Information on nearby hotels and how to reach Energinet.dk can be found here:

<http://energinet.dk/EN/OM-OS/Sider/Kontakt.aspx>.

The workshop homepage including the latest developments in the program is here:

http://www.safewind.eu/index.php?option=com_content&view=section&layout=blog&id=16&Itemid=109

We look forward seeing you in Fredericia!