



Webinar Series

Join us to the 2nd part of our webinar series on Advanced Weather Forecasting.

#3.2 Smart4RES - Advanced weather forecasting for RES applications: multi-source observations to improve solar forecasting within the Smart4RES project

April 29th, 13:00 CEST

This webinar will present solar irradiance forecasting methods based on a network of ground-based sky cameras, radiometers and ceilometers as well as satellite data. Furthermore, new designs to data assimilation that combine the best of the observations with the best of numerical weather prediction models to produce optimized weather forecast for RES applications will be presented.

Key messages:

- A huge amount of observations (radiometers, ceilometers, sky images, satellites as well as solar plants) are used to derive solar nowcasts as well as the initial state of the atmosphere used by improved numerical weather models. The evolution of which is then predicted by NWP and LES.
- For solar power prediction, both observations from the ground and from satellite are used, mostly to identify clouds and predict the displacement over time and space as well as their impact on solar radiation.
- Smart4RES develops complementary methods to blend information from multiple source of data and to propose novel approaches towards a seamless view of RES forecasting at various temporal and spatial granularity levels.

Readings are available on the [Smart4RES website](#).

To register

Speakers



Annette Hammer

Researcher
German Aerospace Center (DLR)



Bijan Nouri

Doctor of Engineering
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Upcoming Episodes

To facilitate knowledge sharing among the energy system stakeholders, Smart4RES developed a **webinar series** and will propose in the coming month the following episodes:

- **Episode #4 June 2021** - Optimizing participation of RES generation in electricity markets: new opportunities and the role of forecasting
- **Episode #5 September 2021** - Optimizing the value of storage in power systems and electricity markets
- **Episode #6 October 2021** - Modelling tools for integrating RES forecasting in electrical grids

Stay tuned - Visit the Smart4RES website



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