Next-generation Forecasting of Renewable Generation for Large-scale Integration in Energy Systems and Markets

Smart4RES PROJECT

FINAL CONFERENCE

PROGRAMME

14 April 2023
Paris (in person)

Sponsors

08:45-9:15	REGISTRATION AND WELCOME COFFEE		
09:15 -10:00	**SESSION 1: GENERAL OVERVIEW**		Moderator: Dowel Innovation
	- **Welcoming words**, A. Laboudigue (Deputy Director of Research of Mines Paris and Director of operation Carnot M.I.N.E.S)		
	- **Keynote speech 'EU's research and innovation priorities on renewable energy'**, M. Soede (DG Research and Innovation, European Commission)		
	- **Evolution of the state of the art and The Smart4RES project in a nutshell** G. Kariniotakis (MINES Paris)		
10:00-11:00	**SESSION 2: ADVANCES IN WEATHER MODELLING**		Moderator: Météo France
	- **RES-dedicated weather forecasting models** Q. Libois (Météo France)		
	- **High-resolution weather models - Large Eddy Simulation (LES): the future** R. Verzijlbergh (Whiffle)		
	- **Improvement of solar forecasting through the use of multi-source observations** J. Lecaza (DLR)		
11:00-11:25	COFFEE BREAK		
11:25-12:25	**SESSION 3: NEXT-GENERATION RES FORECASTING**		Moderator: MINES Paris
	- **Improved RES models in particular weather conditions** M. Lange (EMSYS)		
	- **Data driven methods for minute-scale wind power and structural load forecasts using Lidars** T. Göçmen (DTU)		
	- **How to simplify RES forecasting using a seamless approach** D. van der Meer (MINES Paris)		
12:25-13:30	LUNCH BREAK		
13:30-15:20	**SESSION 4: FORECASTING SERVICES AND APPLICATIONS**		Moderator: EDP NEW
	- **Towards data markets** P. Pinson (DTU/ Imperial College of London)		
	- **Privacy-preserving data-sharing for energy forecasting** C. Gonçalves (INESC TEC)		
	- **Uncertainty-aware booking of flexibilities in electrical grids** R. Bessa (INESC TEC)		
	- **Optimisation of operation and security assessment of isolated power systems with high RES penetration** D. Lagos (NTUA)		
	- **Trading strategies for RES production** S. Camal (MINES Paris)		
	- **Resilient energy forecasting and prescriptive analytics** A. Stratigakos (MINES Paris)		
15:20-15:35	COFFEE BREAK		
15:35-16:30	**PANEL – FUTURE CHALLENGES IN RES FORECASTING** Moderator: MINES Paris & DTU Wind		
16:30	END OF THE CONFERENCE		