Improved weather modelling and forecasting dedicated to renewable energy applications

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Achieve outstanding improvement in RES predictability through a holistic approach, that covers the whole model and value chain related to RES forecasting.

Focus on some of the research directions:

⇒ Combine weather data sources for improved nowcasting & forecasting

⇒ NWP models dedicated to Renewable Energy Sources (RES)
  ⇒ Higher temporal resolution outputs
  ⇒ Additional relevant variables for RES (i.e. cloud optical thickness, spectral distribution of radiation)
  ⇒ Evaluation & calibration of NWP models accounting for RES scores

⇒ Large Eddy Simulation (LES) for ultra-high NWP resolutions & data assimilation

⇒ Seamless NWP ensembles and RES production forecasts
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| #3 | March & April 2021 | Advanced weather forecasting for RES applications |
| #4 | June 2021 | Optimising participation of RES generation in electricity markets: new opportunities and the role of forecasting |
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