

Wind energy



Products

Common meteorological fields: temperature, humidity, precipitation, pressure.

Wind oriented products: wind speed and direction at various hub heights, air density, energy forecast

Science

High resolution weather models, with dedicated boundary layer and convection parametric schemes to best predict wind at various hub height. Ensemble of model initializations to reduce uncertainty.

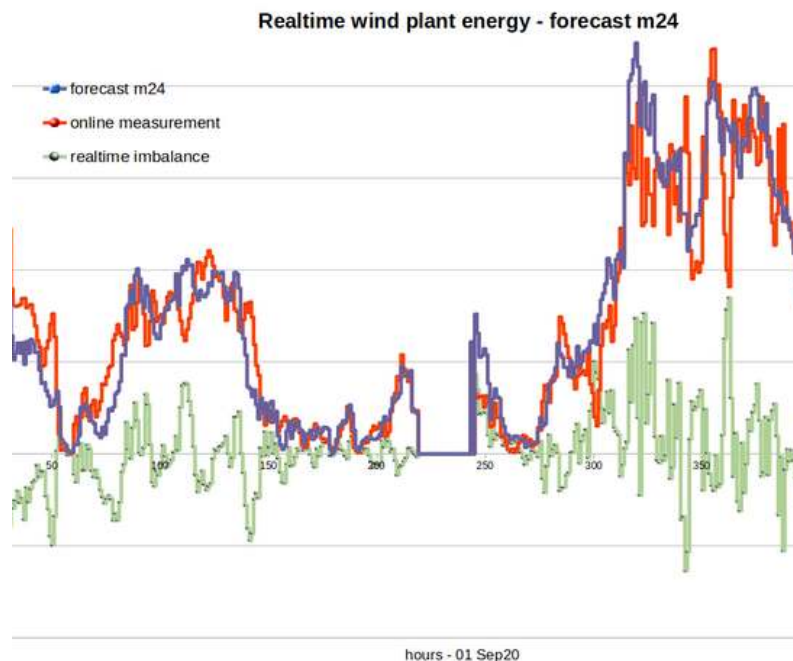
Hybrid model to predict wind turbine power output: power curve + historical data training

Technical Details:

- Hourly or sub-hourly time steps
- From 24 hours ahead up to 2 weeks
- Weather parameters + energy generation
- Continuous forecast update
- Uncertainty estimate
- Real-time correction with energy measurement
- From single turbine to entire wind plant

For grid operators and TSOs:



- Instantaneous power grid values
- Hourly and sub-hourly energy production
- Daily estimated energy production forecast
- Ramp rate
- Easy integration: csv, xml xls files, ftp, API
- Real-time monitoring through dedicated web portal



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