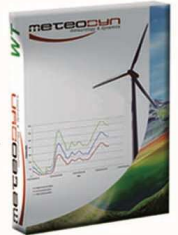


Facilitate grid energy trading
Improve maintenance scheduling

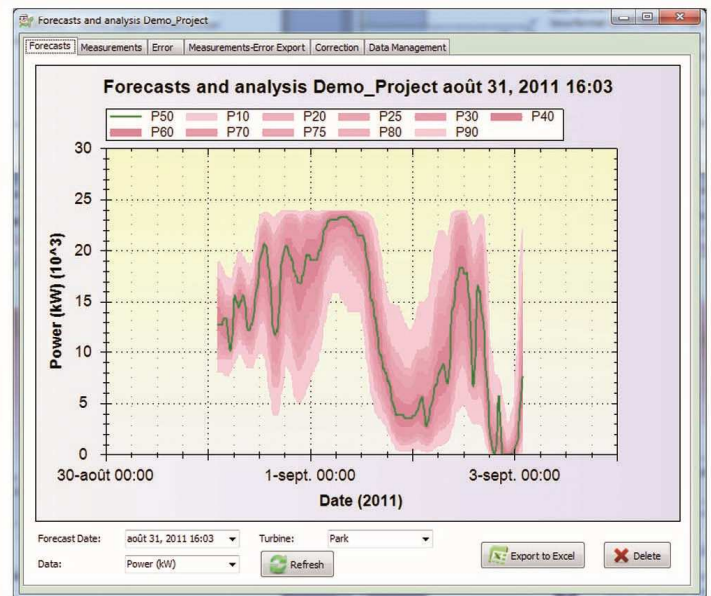
Wind forecasting

Meteodyn Forecast

▶ Meteodyn Forecast, wind energy forecast software:



- Very short-term (0-4h) and short-term (up to 7 days ahead) wind power forecast
- Model based on recorded wind sequences and real-time data assimilation
- Mesoscale hourly predictions anywhere in the world
- Compatible with any mesoscale model
- Possibility to compare different mesoscale models
- CFD automatic downscaling: consideration of atmospheric stability, air density and turbine wake effects
- Learning tool analyzing and correcting the errors on wind speeds and production
- Results turbine by turbine and for the entire park
- Possibility to stop the turbines and schedule maintenance



▶ Choose a tailor-made solution:

- A complete tool box to design your own wind forecasting system:
Make your preliminary study with MeteodynWT and run your own predictions using mesoscale data of your choice.
- A pre-configured application for each wind farm
Meteodyn manages the preliminary study. (Preparation and calibration of the site, CFD calculations, diurnal and seasonal analyses)

For MeteodynWT users

For a specific wind farm

Facilitate grid energy trading
Improve maintenance scheduling

Wind forecasting

Meteodyn Forecast

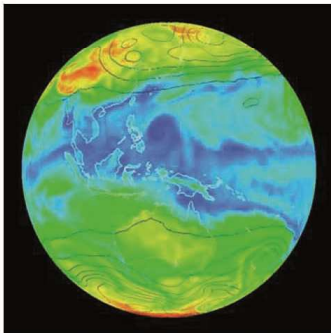
▶ How to use Meteodyn Forecast:

The User

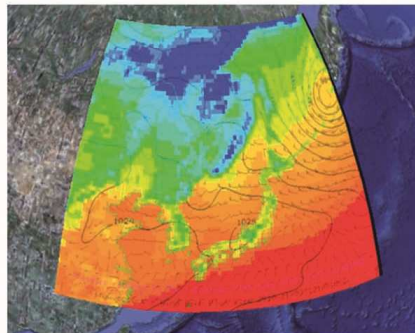
- Selects the mesoscale data
- Schedules turbine maintenance
- Loads recorded wind data and SCADA
(if available)
- Links the system with SCADA
(if available)

The Software

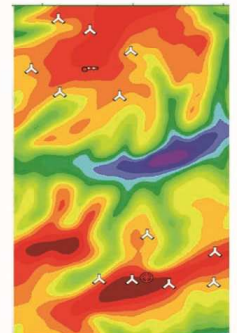
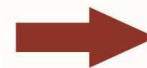
- Assimilates and compares data to recorded wind sequences
- Downscales mesoscale data
- Analyzes the error
- Calculates energy production turbine by turbine



Global Model
0.25° Resolution
GFS, ECM WF



Mesoscale Model
3 km Resolution
WRF



Microscale Model
25 m Resolution
MeteodynWT

