

VENTUS

EWC
Wind Energy Solutions



FORECAST FOR:

- Cross-regional and local power providers
- Energy traders (electricity & gas)
- Grid operators (electricity & gas)
- Wind energy experts and project developers
- Power plant operators in the renewables sector

WIND POWER FORECAST

Forecast of the wind power feed-in for regions throughout the world

The Wind Power Forecast provides hourly and daily mean information on wind power, wind speed and direction for up to 6.5 days (24h–156h) in advance.

Your benefits from the Wind Power Forecast:

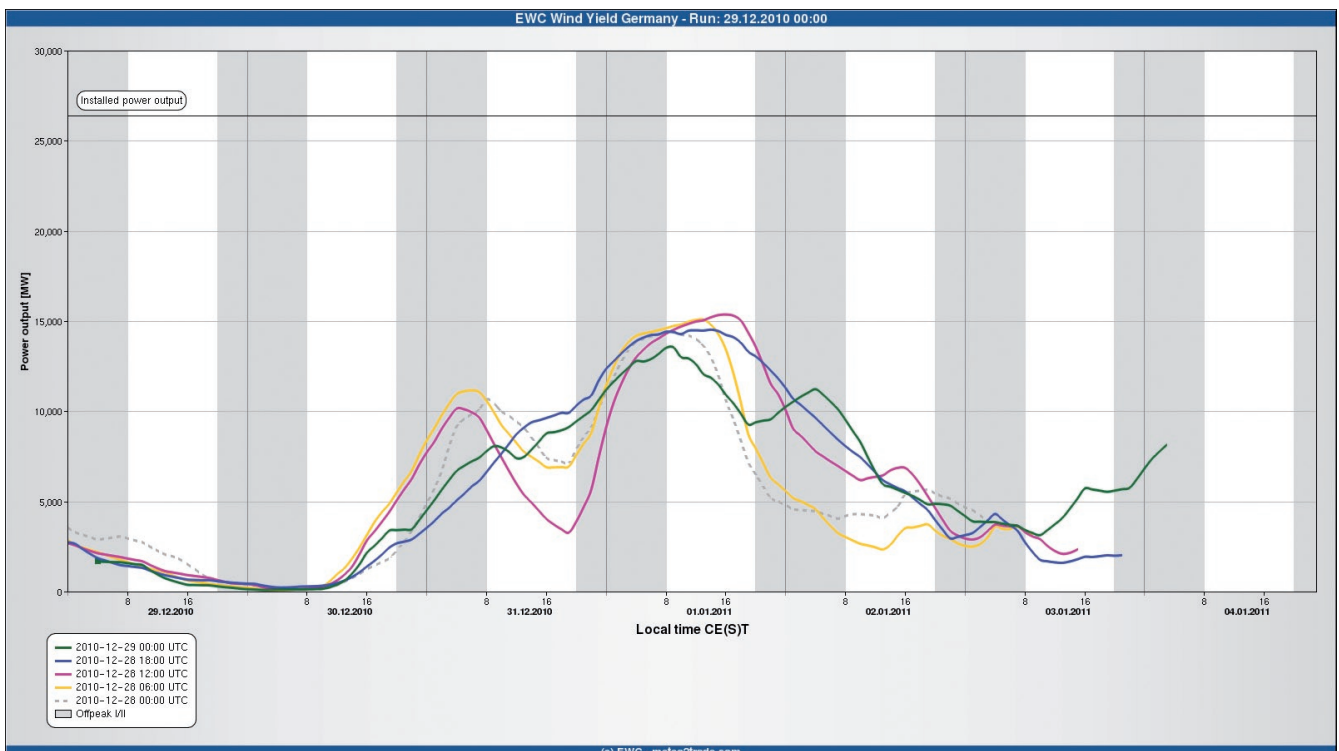
- High prediction quality in power production
- Timely identification of grid congestions
- Enhanced planning security
- Utilisation of cross-border capacities (energy sales to other countries)
- Ongoing data quality assurance by using representative individual plants and extrapolations of total power
- Optional: Simulated calculation of a potential feed-in
- EWC forecasts can help in fine-tuning trading systems

Your service benefits with EWC:

- Fast and customised handling of your requests
- Industry-specific consultancy
- Outstanding price/performance ratio
- Secure and reliable service guaranteed by the use of flexible and continuous data interfaces
- The Wind Power Forecast is easily integrated into all EDM (energy data management) systems

EWC uses the following database:

The Wind Power Forecast is based on GFS (Global Forecast System) data, measurements from wind power plants and operator databases for the forecasting region. Forecast models for Germany additionally incorporate power generation data from around 500 wind farms.



Visualisation of the wind power for the next 24–156h (6.5 days)

Legend: ■ Forecast runs ■ 00:00 run from the previous day ■ Off-Peak I/II

Our standard data processing:

The spatial aggregation is performed by using a down-scaling procedure with a resolution of 1km x 1km, the temporal aggregation is based on hourly or daily mean values. Influencing factors, such as thermal stratification of the atmosphere or roughness length in relation to land use and orography, are individually calculated for each region. The forecast accuracy is improved by statistical correction methods. On request, relative power data can be included in and displayed as chart.

Updates:

- Hourly updates for the next 12 hours
- Up to four updates per day for the next 156 hours

Customised and flexible data provision:

- Visualisation: spreadsheet, chart
- Format: TXT, CSV, EXCEL, XML
- Supplied as: e-mail, SFTP, pull and push, Web services, ISDN, P2P

EWC Weather Consult GmbH

Enhancing efficiency, making risks calculable and minimising them, saving costs – all these energy market goals can be achieved with the help of EWC's meteorological data solutions and services. We provide high-quality global location- and time-specific forecasts, weather measurement data, simulations and analyses for customers in the energy sector. We cater to our customers' individual needs by offering a range of categories of standard products and custom solutions. For information on our extensive portfolio of products and solutions, visit www.weather-consult.com.