Wind Power Forecasts

Proven, highly-accurate forecasts to support your power scheduling and trading

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Highest possible forecast accuracy

Whether your utility owns or offtakes wind power, or your focus is on power marketing, the economical integration of wind power forecasts can help you better manage generation commitments and boost your bottom line.

At Schneider Electric, we offer vital, proven wind power forecasts for anywhere in the world. By supporting better-informed power scheduling and trading decisions, our forecasts can help provide you with maximum value and savings.

Proprietary forecasting methodology

Our cost-effective wind power forecasts use proprietary statistical and state-of-the-art artificial intelligence techniques to learn the characteristics of a specific wind plant, and to achieve the highest possible forecast accuracy out to seven days. To support intra-day market requirements, we offer an additional five-minute resolution forecast for the next two-hour time frame.

Real-time observations and today's top weather models are used to continuously adjust our near-term wind power forecasts. This helps to ensure the greatest level of accuracy. In fact, these proven forecasts are being delivered for more than 130 GW of installed wind generation capacity worldwide.

Our forecast system learns the characteristics of a wind plant using historical power data from that specific plant. For new wind plants, where historical power production information may not be available, our wind power forecasts are trained using historical wind speed from on-site meteorological towers.

Forecasts are delivered by our fast, reliable FTP delivery system for integration into your own systems. This valuable information can be easily viewed in a robust user interface that accompanies the wind power forecasts. They are also integrated into several available Schneider Electric renewable solutions.

Key solution benefits

With the optimized accuracy and availability of our wind power forecasts, you can:
- Improve plant scheduling and dispatch
- Integrate a higher percentage of renewable wind energy
- Reduce operating reserve costs and requirements
- Avoid or minimize system operator imbalance penalties
- Improve market trading performance and revenue
- Reduce plant operations and maintenance costs

130 GW

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High-accuracy wind power forecasts can help you to successfully integrate wind power

## A complete solution

Our wind power forecasts include:

- "Trained" forecasts for each of your wind plants, out seven days
- Probabilistic (low and high probability) forecasts to help you better understand forecast uncertainty and risk, and thereby improve scheduling
- New! Hourly hub height forecasts created for 80, 100, and 120 meters, to support safe, efficient operations over the next seven days
- A direct feed into your operational load/generation forecasting or balancing systems
- Secure browser access to our forecasts, and verification of recent forecast vs. actual power
- Continuous intake of wind plant power measurements, and where available, meteorological tower data for improved near-term accuracy

Unique solution to bring out the best

With this powerful forecast solution, you'll realize:

- Cost-effective, high accuracy forecasts
- Probabilistic forecasting, for more sophisticated approaches to scheduling and power marketing
- Reliable forecasts, delivery, and customer support that you can count on
- Forecasts wherever you need them, around the world

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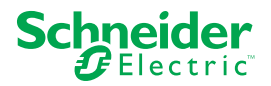
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