energy & meteo systems

Predictions and
Virtual Power Plant
Complete package for electricity traders

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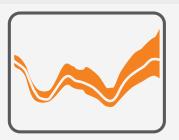# Our all-round, carefree Package for your Trading: Virtual Power Plant & Predictions

energy & meteo systems supports traders in the marketing of renewable energies on the electricity exchange and electricity balancing market with well-established and continuously developed services.
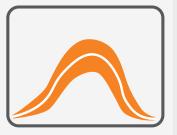
The Virtual Power Plant

With our Virtual Power Plant, we offer you an all-round, carefree package so that you can entirely concentrate on trading with power from renewable energies and decentralized generating installations on the intraday, spot and electricity balancing markets.

The Virtual Power Plant is a technical platform optimally geared towards all direct marketing processes from wind and solar power, including the remote control and assessment of non-availability as well as the marketing of balancing power from decentralized energy generating facilities. Using our power plant as a software-as-a-service solution means you do not need your own IT infrastructure.

Wind and solar power predictions

With Previento and Suncast, we deliver precise predictions of the wind and solar power output for all aspects of grid operations. You may receive our predictions for any installation portfolios, entire countries, or individual states as well as for on- and offshore sites world-wide.

By optimally combining weather models, we predict power output from 5 minutes to 15 days in advance and at a high time resolution. This is additionally followed by a very short-term adaptation of on-line measurements as well as an easy to understand specification of prediction uncertainty.

Curtailment predictions

With our curtailment predictions, restrictions in the input of renewable energies on the part of the grid operator due to grid bottlenecks in the control area is taken into account. You receive two variations of the prediction: that of the theoretically possible input without curtailment as well as the prediction of actual input containing curtailments.

Meta-predictions

Optimal combination of several providers: our meta-prediction calculates the best statistical weights based on the past quality of the various models, leading to an above average prediction quality. Our additional short-term correction significantly increases the prediction quality in the short-term time range.

Meteorological prediction and situational awareness

Our situational awareness reports prepare you in advance for extreme weather situations. In particular when it comes to the uncertain input from renewable energies such as with storms, icing, fog, lightning or Sahara dust, warning reports deliver fast and effective information in real-time.

Visualisation

In our browser-based customer portal, we provide your ordered data in a user-friendly manner. This includes e.g. wind and solar power predictions (the most up-to-date intraday and day-ahead predictions, meta predictions, aggregated supply) or forecast uncertainty.

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Flexible. Reliable. Fast.

energy & meteo systems is among the world-wide leading providers of energy-meteorological predictions and virtual power plants. With our services, we decisively contribute to the efficient integration of renewable energies into electricity grids and markets.

We predict approximately 50 % of the installed wind and 40 % of the installed solar power worldwide and offer further essential forecasts for grid operators and traders.

By optimally combining our power predictions with our individually customizable Virtual Power Plant, fluctuating decentralized power sources can be reliably integrated into energy grids and profitably marketed on the electricity exchange.

Our services include competent meteorological support, technical 24/7 support and secure server operations.

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Information Security Management System

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systems

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Virtuelles Kraftwerk
■ Softwareentwicklung und Betrieb
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