

WIND PRODUCTION FORECAST

SMHI Wind provides reliable site-specific production forecasts in the short term for your wind farms. The service is developed by SMHI researchers in collaboration with wind energy producers to give you accurate power output predictions.

SMHI Wind will tell you how much electricity your wind turbines will produce for each individual wind turbine as well as your total production. Calculations are made for each hour today and tomorrow, and for every six hours on the two subsequent days. SMHI Wind also displays summarised 24-hour values for all four days, both in kWh and as a percentage of installed capacity. SMHI Wind is updated four times a day.

SMHI Wind is based on a high-resolution model and calculates the power production for each individual wind turbine. It takes into account the geography and the power curve of the wind turbine for different wind speeds. The forecasts are also adjusted against the actual outcome from your wind turbines, thereby enriching the system continuously. This statistical optimisation method called Kalman filtering improves the forecast further.

SMHI Wind currently provides production forecasts for over 300 wind turbines. The product has high reliability and we have good references. Contact us to get in touch with our reference customers, or if you want to see verification of product performance.

SMHI WIND HELPS YOU

- Provide the best possible production planning data for day-to-day forecasting.
- Achieve the best possible financial return on your output.
- Minimise costs for balance power due to over or under estimation of energy production.

SMHI WIND POWER SERVICES

We are with you through the whole process, from the initial start-up to net connection and thereafter to operational optimisation and ultimately phase out. Also, we have cutting-edge competence within research and analysis of wind conditions in cold climates.

ABOUT SMHI

Swedish Meteorological and Hydrological Institute (SMHI) is a government agency under the Swedish Ministry of the Environment. SMHI offers products and services that provide various kinds of enterprises and organisations with an important foundation for decision-making. General forecasts and weather warnings, industry-specific services, simulations and analyses, statistics, climate studies and contracted research are some examples.



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