

#### 4Cast GmbH & Co. KG

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# PRESS RELEASE

4Cast GmbH & Co. KG presents innovative wind energy forecasting solutions at WindEnergy Hamburg 2024



**Potsdam, September 18, 2024 -** 4Cast GmbH & Co. KG presents new technologies to accelerate the energy transition at WindEnergy Hamburg 2024.

From September 24 to 27, 2024, you will find 4cast at booth A3.440, where the company will present its latest developments in automated long-term yield forecasting for wind energy projects with the 4cast Horizon solution.

# Overcoming industry challenges with automated forecasting

In the rapidly evolving wind energy industry, accurate forecasting and efficient planning are critical to project success. 4cast takes an innovative approach that uses automated long-term yield forecasts to optimize planning and decision-making processes for wind projects. This solution not only improves the accuracy of yield assessments, but also significantly reduces the time and resources required for a comprehensive analysis.

#### Key features of 4cast Horizon:

4cast Horizon's automated long-term yield forecasts enable fast and accurate assessment of potential sites and scenarios. This plays a crucial role in the acquisition and planning phase of wind projects. The efficiency and reliability of the system is based on the consideration of various loss factors such as shading and parking effects. As a result, net energy yields are simulated based on meteorological and physical standards for planned sites and turbine configurations, which is based on sound research findings.By integrating detailed loss factors based on current scientific methods and industry standards, the system achieves a high level of detail in the analysis and calculation of annual production. This approach contributes to improved planning accuracy and helps to minimize project risks. Thanks to automation, this analysis is also carried out quickly and independently of human error sources. This makes the planning process more efficient and faster.

4cast Horizon is based on the industry standard TR6 (Technical Guideline Part 6, FGW e.V.), which ensures that the forecasting and evaluation process complies with established guidelines and best practices. The cloud-based solution also offers rapid deployment and high scalability. This enables project planners and developers to make informed decisions in less time.

"At 4cast, we believe that automated forecasting technologies are the key to overcoming the challenges of the wind energy industry. With 4cast Horizon, we are setting new standards in terms of efficiency, enabling our customers to make projects more successful and sustainable." Sascha Bauer, CEO 4cast.

## Helping to shape the future of wind energy

4cast's participation at WindEnergy Hamburg is not only to showcase a product, but also to engage with the entire industry on how advanced forecasting technologies can contribute to the success and sustainability of wind energy projects. 4cast Horizon is not only intended to accelerate the expansion of renewables in Germany, but also to be presented to an international audience in order to support the energy transition worldwide.

Journalists and industry experts are invited to visit 4cast at booth A3.440 to learn more about how 4cast Horizon can improve the planning and implementation of wind energy projects. The team is looking forward to exciting conversations and exploring how these technological advances can support the industry's goals.

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Since 2016, 4cast has been supporting the entire lifecycle of wind and solar projects. The company combines meteorological research with data-driven analysis to provide accurate forecasts for all project phases.

With 4cast Horizon, automated long-term yield forecasts enable precise site assessments. Wind assessments provide a solid foundation for permitting and investment decisions. During operation, Intraday and Day-Ahead forecasts ensure optimized market integration.

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