

PRESS RELEASE

Accurately forecasting future energy yields:
Industry relies on short-term yield predictions –
cost-saving and energy-efficient.



Potsdam, February 9, 2024

With the global demand for energy independence on the rise, 4cast aims to become the go-to provider for advanced energy yield forecasting solutions. These technological breakthroughs are crucial for moving away from traditional fossil fuels and volatile energy markets, ushering in a new era of renewable energy.

Businesses face the challenge of keeping production costs stable while remaining competitive—an issue that 4cast addresses with reliable and accurate renewable energy forecasts. Companies that rely on their own green and cost-effective electricity from wind or solar power benefit from precise energy cost planning, enhancing their long-term resilience against market fluctuations.

Based in Potsdam, 4cast specializes in developing software-driven energy yield forecasts for renewable energy generation. The company's advanced approach integrates proprietary machine learning models and a wide range of data inputs. With 4cast's sophisticated algorithms, it is possible to determine how much energy renewable assets will generate in the next 15 minutes, tomorrow, or even up to seven days in advance. This provides direct consumers and industrial self-suppliers with planning security for using their self-generated electricity to power production processes. When it comes to making informed decisions about energy storage usage, precise short-term yield forecasts are essential.

In addition, 4cast provides energy yield estimates for the next 20 years—covering new project sites, existing installations, and repowering projects alike.

By leveraging 4cast's precise forecasts, risks can be significantly reduced, and operational processes optimized. Highly accurate predictions enable reliable production planning, preventing energy usage during peak price periods and maximizing profitability through energy optimization. 4cast has successfully minimized the risk of overestimating or underestimating energy yield—a critical factor that, in the worst case, could threaten grid stability and lead to significant financial consequences. Machine learning-based forecasts serve as a powerful tool to mitigate many economic risks, giving self-suppliers the confidence to navigate the dynamics of direct energy consumption.

4cast firmly believes that accurate forecasting is the foundation of efficient and successful energy generation. By minimizing risks and maximizing profits, 4cast's forecasting service plays a crucial role in the ongoing evolution of energy production, contributing not only to the economic success of renewables but also to the overall success of the energy transition.

Visit 4cast at E-World 2024 and join us on the path to a sustainable and successful future.

Booth Information:

Location: Booth GA-23, Galeria

Schedule a meeting with our experts [[here](#)].

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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.