VAISALA

WindCube® Nacelle

New enhancements for unrivaled performance

Today, industry-first IEC classification paves the way for increased adoption and acceptance for state-of-the-art Power Performance Testing (PPT). Plus, new innovations provide even more robust data while making the system easier to use, so customers can verify wind farm turbine performance and optimize power output and project profitability.

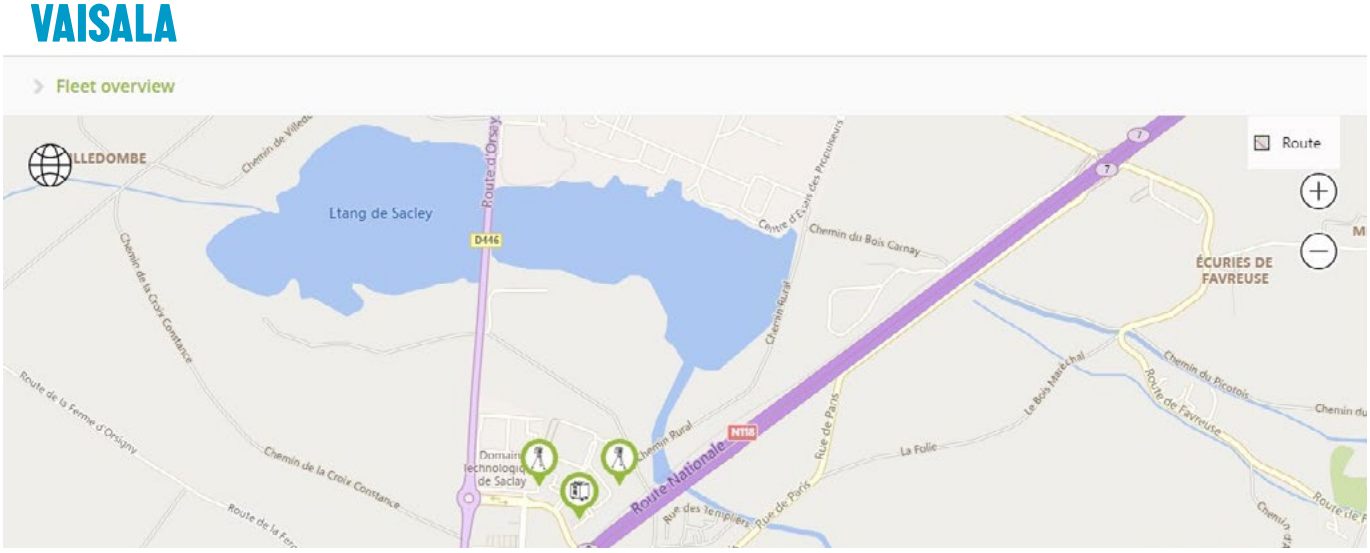
Here are the new enhancements that further fortify WindCube Nacelle: The most powerful, reliable and accurate lidar for IEC-compliant PPT. These enhancements apply to both the WindCube Nacelle (450m range) and WindCube Nacelle Long Range (700m range).

1. Industry-first classification according to the new IEC standard for nacelle-based lidar

DNV, in collaboration with Vaisala, has classified the WindCube Nacelle as the first nacelle lidar to comply with the new IEC 61400-50-3 standard. Full classification paves the way for increased adoption and acceptance of nacelle-based lidar for state-of-the-art PPT.

2. Simplified management of lidar system and data with easy-to-use software

Cloud-based WindCube Insights — Fleet lets you facilitate remote system configuration, monitoring, and data access with built-in security for a single lidar or a fleet — for both WindCube vertical-profiling lidars and WindCube Nacelle lidars. Gain full visibility into campaigns and lidar networks for better, more confident decision-making and get the most from your lidar investment.



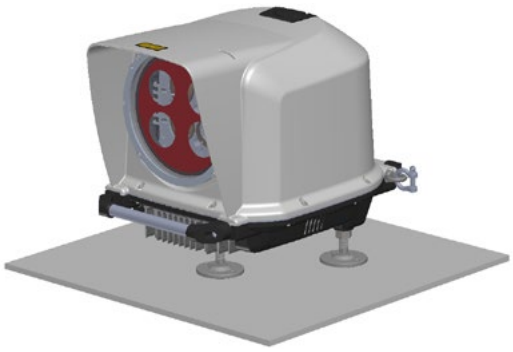
3. Increased certainty with new data options to help you better understand the performance of wind turbines

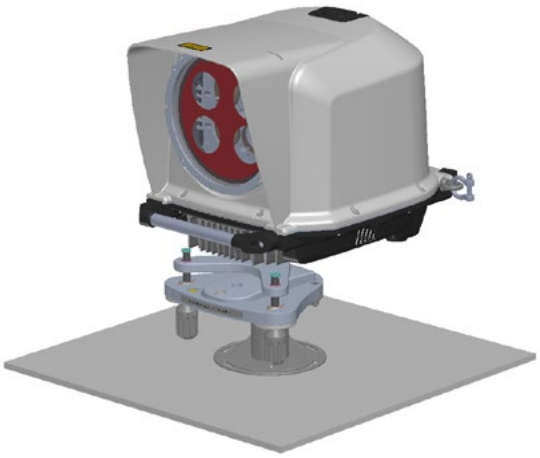
Rotor Equivalent Wind Speed (REWS) lidar data output provides accurate rotor-averaged wind speed, which is particularly useful to understand and enable further detailed analysis of most modern, large rotor turbines.

A world-class Vaisala weather sensor, directly mounted on the nacelle-mounted lidar, provides reliable air pressure, temperature, humidity, and rain and hail data for more accurate, air-density corrected PPT. Accurate weather data provides valuable insights into the overall performance of wind turbines.

4. Versatile mounting options support any turbine type

Adaptable mounting options in addition to the standard tripod provide more flexibility for quick and reliable installation on any turbine type — so you can get up and running fast to focus on what matters.





Upgrade/retrofit options for current WindCube Nacelle customers

Current WindCube Nacelle customers (with standard or long-range WindCube Nacelle systems) may upgrade to the new version. This requires a system upgrade at one of our factories in Saclay or Shanghai. To learn more, please contact our customer support team at helpdesk@vaisala.com or go to MyVaisala account to request an upgrade.

These advanced enhancements further establish Vaisala as the go-to expert in this arena, empowering wind industry players to confidently use our WindCube Nacelle wind lidar to optimize PPT campaigns in onshore and offshore environments.

Learn more about WindCube Nacelle lidar and ensure your wind farm projects are operating at peak capacity.

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