



Industry-first classification and new enhancements fortify WindCube Nacelle, the most powerful, reliable, and accurate lidar for IEC-compliant Power Performance Testing

New enhancements provide even more robust data while making the system easier to use, further enabling customers to verify onshore and offshore wind farm turbine performance as well as optimize power output and project profitability

Leosphere, a Vaisala company that specializes in developing, manufacturing, and servicing turnkey wind lidar instruments for wind energy, today announced in collaboration with DNV that WindCube® Nacelle is the first nacelle lidar to receive full classification according to the new IEC standard for nacelle-based lidar, paving the way for increased adoption and acceptance for state-of-the-art Power Performance Testing (PPT). The new enhancements to WindCube Nacelle provide richer data options while making the system even easier to use.

The latest enhancements deliver:

- **Simplified management of lidar system and data via easy-to-use software**
 - Cloud-based [WindCube Insights – Fleet](#) facilitates remote system configuration, monitoring, and data access for a single lidar or a fleet. In addition, both WindCube vertical-profiling lidars and WindCube Nacelle lidars can be managed from a single software platform.
- **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. This additional value to the standard hub-height wind speed is particularly useful to understand and enable further detailed analysis of most modern, large rotor turbines.
 - An industry-leading Vaisala integrated weather sensor, directly mounted on the nacelle-mounted lidar, provides reliable air pressure, temperature, humidity, and rain/hail data for more accurate, air density-corrected PPT that offers valuable insights into the overall performance of wind turbines.
- **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.

“Already included in multiple developer and manufacturer Turbine Supply Agreements and leveraging our deep industry expertise and more than 400 successful lidar deployments, we understand that accurate and reliable PPT is increasingly critical to ensuring a wind farm is maximizing output and profitability,” said Matthieu Boquet, Head of Market & Offering, Wind Energy at Leosphere, a Vaisala company. “These advanced enhancements further establish our company 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.”

With more than 15 years of scientific lidar innovation, WindCube has earned the trust of customers and other industry leaders through thousands of deployments around the globe. For more information about WindCube or the company's full suite of wind lidars, please visit www.windcubelidar.com.

About Vaisala

Vaisala is a global leader in weather, environmental, and industrial measurements. Building on 85 years of experience, Vaisala provides observations for a better world, with space-proof technology even exploring Mars and beyond. We are a reliable partner for customers around the world, offering a comprehensive range of innovative observation and measurement products and services. Headquartered in Finland, Vaisala employs over 1,900 professionals worldwide and is listed on the Nasdaq Helsinki stock exchange.

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About Leosphere

Founded in 2004, Leosphere, a Vaisala company, is the world leader in ground-based and nacelle-mounted lidar (light detection and ranging) for atmospheric observation. The company designs, develops, manufactures, sells, and services remote sensing instruments for reliable, accurate wind measurement and aerosol characterization. Leosphere has been a fully owned Vaisala company since October 2018.

www.windcubelidar.com

More information for the media

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