

What are wind measurement & turbine monitoring solutions?

Our wind measurement and turbine monitoring solutions include meteorological tower-based systems as well as Lidar systems. Our solutions are complemented by a range of data and hardware services that help streamline our customers' campaigns and ensure success from project installation through operation.

What are wind measurement instruments?

Wind Measurement International offer a range of instruments to measure wind speed, turbulence, wind shear, wind direction, pressure, temperature and humidity. The instruments meet the demands of the large wind farm developer to the cost-sensitive small wind turbine owner.

How to measure power performance of a wind turbine?

The power performance of a wind turbine is measured using the traditional method, which involves installing a met mast equipped with calibrated anemometers and wind vanes at specified measuring heights in the vicinity of the wind turbine, in accordance with IEC 61400-12-1.

What is wind resource assessment?

Wind resource assessment is a crucial, pressure-filled stage. Go beyond legacy technologies to capture the reliable, accurate data you need. Simplify this traditionally difficult process with WindCube nacelle-mounted lidar and a revolutionary software analytics tool.

What are Gill's new high performance wind sensors?

WindUltra, Gill's latest high performance wind sensors, are proving to be market leading on a number of fronts: MaxiMet now has extended performance in freezing conditions due to the new heated option. Fantastic achievement by Saildrone to gain a Guinness World Record for the highest wind speed recorded by a USV.

How do remote sensing devices measure wind speed?

Remote sensing devices measure wind speed by using light waves. These devices, such as Lidars, must be calibrated and classified by an accredited calibration lab. In special cases, like offshore wind farms, nacelle mounted Lidars are used. Before any campaign, we check whether or not a lidar is suitable for your measurement campaign.

Goldwind prides itself on the superior design and smart manufacturing of wind power equipment. From intelligent quality management standards to green supply Chain systems, Goldwind ...

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The power performance measurement of your wind turbine according to internationally recognized standards gives you the necessary answers. As a specialist for power curve tests, we support you in your measurement - ...

Easy-Laser has for many years been one of the leading suppliers of measurement and alignment systems for the wind power industry, both for shaft/coupling alignment and flatness measurement of tower flanges. Our ...

The WMS100 is a purpose built wind measurement system specifically designed for operational wind power plants. The WMS station delivers data shareholders, site operators and power off-takers with accurate real-time and historical ...

Intermittent Drops and Surges - Natural changes between calm and stormy conditions might mean that the potential capacity of a turbine wildly fluctuates. Industrial-scale batteries, wind measurement equipment, and weather ...

Anchored by the WindCube lidar suite, Vaisala's offshore portfolio provides the flexibility and accuracy required for many purposes, from wind resource assessment, pre-construction, and contractual power curve testing to ...

the United States and Europe (Figure ES2). Although this document focuses on land-based wind power plants, the same processes are used offshore. Figure ES2. Main technical activities in a ...

Met masts only measure wind at fixed points where sensors are installed on each tower. With today's average turbine hub heights surpassing 100 meters, these free-standing towers often cannot directly measure wind ...

The deployment of measurement instruments for site assessment or performance monitoring of renewable energy power plants will be very much determined by the intended use of the ...

Web: <https://gennergyps.co.za>