

Wind power plant wind measurement equipment

What is Wind Resource Measurement?

Wind resource measurement is an important aspect of wind power development. Information about how hard the wind blows and in what directions determines how much power a proposed wind farm in an area would produce (see wind power). A variety of technologies are available to measure wind conditions.

Where are wind measuring devices used?

The wind measuring devices for this purpose are installed on the ground, on wind turbine nacelles, and offshore on buoys and vessels. The important thing is that the technology is selected and employed in such a way as to create an optimal added value for industry and applied research.

What technologies are available to measure wind conditions?

A variety of technologies are available to measure wind conditions. The two most important characteristics of wind are speed and direction. Several of the most common systems for collecting wind resource information are listed below. Wind Vane (above) and Anemometer (below).

Which wind measurement system has the most bankable data?

Wind Measurement International has chosen the ZephIR LIDAR system as offering the most bankable data. WMI offers a range of masts from 10 m tilt-up tubular to 150 m lattice. WMI can assist in the selection of the most appropriate mast for your site given the expected project value and financial constraints.

Fraunhofer IWES has been developing innovative measuring concepts for the characterization of small-scale wind fields up to onshore and offshore wind resources covering a number of years since 2009.

Are the instruments telling the true story? WMI is well versed in the specification of the most appropriate equipment to characterise the wind climate of your site. WMI takes a pragmatic view on the ...

To ensure a minimum of influence by surrounding structures it is recommended to use masts specifically designed for wind measurements. Our field group has long experience from building and installing ...

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Turn-key systems for wind-resource assessment and power performance measure wind speed, wind direction, air density, and electric power. Learn more.

They provide crucial data that informs the operation, management, and maintenance of wind turbines, contributing to the optimization and efficiency of wind power plants. The use of ...

Accurate wind measurement is essential in various industries, including meteorology, aviation, renewable energy, and environmental monitoring. Different types of instruments are used to ...



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Precision and reliability are crucial in the wind and energy industries, where even the smallest measurement can impact safety, efficiency, and performance. At Grene WIS, we provide ...

Measurement solutions for a wide array of applications for testing and monitoring wind power plants and wind turbines. Check our award-winning DAQ systems.

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