

POWER PERFORMANCE

Energy Assessment

Type Testing & Technical Expertise

Test Site Operation

Efficiency and power output – these are the benchmarks of wind turbine value. Precision in measuring them – this is the value of windtest north-america.

Our evaluations are the basis for minimizing costs, complying with regulations, meeting contractual obligations and maximizing profitability.

As the North American subsidiary of windtest grevenbroich gmbh, a global expert in power performance evaluation, we apply decades of industry experience in evaluating, measuring and validating turbines to your project. Whether it involves prototypes, small wind turbines or utility-scale wind turbines, we'll independently design and execute an in-depth measurement plan that pinpoints their operational quality.

Powerful performance.

By any measure, you'll have it with windtest north-america.



WHY WINDTEST NORTH-AMERICA?

Accredited Expertise

We offer accredited services in accordance with ISO/IEC 17025 and adhere to the latest national and international standards. We also hold the FGW and MEASNET seals of conformity for measuring wind turbine power performance.

Experienced

Our parent company, windtest grevenbroich gmbh, has been serving clients around the world for more than 20 years, and we've been engaged in North America for more than a decade. We've completed thousands of measurement and evaluation projects, including 200 power performance projects.

Engaged

Our specialists are members of several national and international working committees like IEC and MEASNET, so we're always able to apply the latest processes and technology advancements to your project.



Who We Serve

Original Equipment Manufacturers

We'll test your prototypes so you can enhance designs and confidently assure customers their turbines will perform to contractual specifications.

Developers, Investors & Lenders

Our reports provide valuable power curve data that allows you to calculate and project annual energy yield and cost-effectiveness with exceptional accuracy.

Owners & Operators

You'll have exactly what you need to determine whether your turbines are measuring up to manufacturers' guarantees.

Proven Process

We'll work closely with you through every phase of power performance evaluation – installation of precision testing equipment, comprehensive monitoring during the 3-to-6-month testing period, and data processing and evaluation. When we're finished, we'll provide you a detailed final report.

Site Inspections

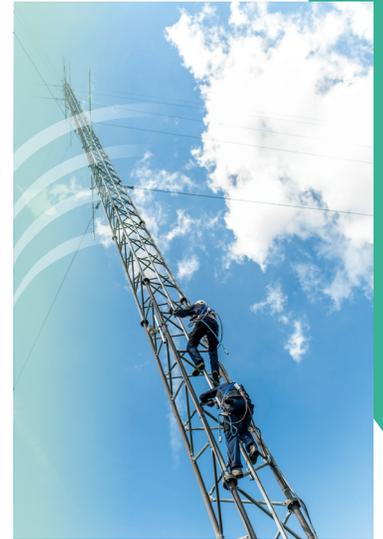
Turbine prototype evaluation requires a thorough site inspection to determine weather conditions, terrain and geographic or man-made features that might interfere with wind flow and, therefore, measurement accuracy.

Site Calibrations

If there are obstacles to wind flow such as hills, tall buildings or other wind turbines nearby, a site calibration will be necessary. We'll develop a measurement plan, erect wind measuring masts, and install the most advanced sensors and technologies available, including SoDAR or LiDAR remote sensing systems in some cases. We measure air density, distance between obstacles and turbines, temperature, wind direction and wind speed to establish a valid measurement sector. During our analysis, we identify any corrections needed to offset deviations.

Ongoing Assessments

Once the turbine or wind farm is operating, windtest north-america conducts periodic power performance assessments to ensure turbines are generating the correct amount of power as efficiently as possible.



See How We Measure Up

Martin Falk, Senior Engineer /Manager for Measurement & Technology Services
+1 712-362-6803 | martin.falk@windtest-na.com | windtest-na.com

windtest north-america
2421 7th Avenue South
Estherville, IA 51334