

WINDSIM SERVICES FACT SHEET

POWERED BY THE CLOUD

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INDUSTRY-LEADING EXPERTISE AND CFD TECHNOLOGY TO
HELP CLIENTS OPTIMIZE WIND-RELATED PROJECTS

WindSim Consulting brings unmatched CFD expertise to optimize wind energy projects for clients of all sizes, anywhere in the world. Our agile, collaborative approach ensures precision and speed, tailored to your unique needs. With a focus on improving ROI, reducing risk, and enhancing your capabilities and reputation, we deliver results that make a real difference.

At a Glimpse

- CFD technology
- Additional capacity and specialized expertise
- Streamlined processes
- Regulatory insight

Services

- Energy yield assessment
 - Analysis of wind resource potential and energy yield based on CFD simulations and measured data.
- Extreme wind assessment
 - Analysis of extreme wind speeds based on meteorological datasets, including MERRA-2 data, and using CFD modeling for prediction.
- Remote sensing correction
 - Correction of deviations in wind speed measurements from devices such as WindCube™, ZX LiDAR, and AQ System SODAR.
- Meso-micro coupling
 - Meso-micro coupling for both greenfield and measured sites, providing fast, cloud-based simulations with CFD and WRF model integration.
- Training
 - Comprehensive training on WindSim software, with both basic (2 days) and advanced (2 days) modules.
- Project-related assistance

Benefits

- Additional capacity, enabling quick up- and downscaling
- Specialized expertise
- Streamlined processes
- Providing a second opinion, building more accuracy and trust whilst reducing risk
- Regulatory insight
- Dedication to your individual needs
- Agile way of working with fast turnaround times

Advantages

- Higher, realistic AEP
- Lower CAPEX
- Lower OPEX
- Improved project RoI
- Bankability
- Better and faster investment decisions
- Reduced risk
- Higher competitiveness

WHY CHOOSE WINDSIM CONSULTING?

- **Experience and Expertise:** Backed by years of global experience in complex wind farm projects.
- **Cutting-edge Technology:** Advanced CFD modelling ensures precise and reliable assessments.
- **Tailored Solutions:** Each service is customized to meet specific project needs, whether it is energy yield assessments, extreme wind evaluations, or remote sensing corrections.
- **Global Clientele:** Trusted by top industry players worldwide, delivering solutions across all terrains.

About WindSim

WindSim pioneered the use of CFD technology to optimize wind turbine placement. WindSim's advanced simulations deliver value for every type of terrain—from the simplest to the roughest—maximizing energy production wherever your project may be. Our highly accurate simulations provide precise results in robust, meaningful reports complemented with rich graphics and interactive 3D visualizations.

Discover why wind energy industry leaders worldwide use WindSim's software and professional services to design the best wind farms possible. Contact us at sales@windsim.com

Stay one step ahead.