



Proven  
wind power  
solutions  
giving you  
peace of  
mind



# Generating results

WinWinD is a wind energy solutions provider with a strong position in the global multi-megawatt market. We offer utility scale, multi-megawatt wind turbines, and we work with you from project development to construction and life cycle support of wind parks.

You need a reliable supplier to generate profitable business - we're here for you.

## **RUN BEFORE THE WIND**

Whether you operate in the Arctic or the tropics, or anywhere in between, we are in the forefront in developing wind turbine solutions. We were the first in the world to introduce an integrated power unit with a medium-speed generator and have been delivering 3-megawatt turbines since 2004. We installed the first successfully performing blade ice prevention system at a multi-megawatt scale to ensure continuous operation in icing conditions. WinWinD turbines are known for their excellent grid compatibility and operational efficiency, especially at low wind speeds.

## **A WINNING APPROACH**

Whether you need a single wind turbine or a complete wind park delivered on a turnkey basis, we work together to define the best solution for you. Our team of professionals works with you for the entire lifecycle of your project.

# Proven technology

Reliable, productive, compliant. That's what you need, and that sums up our technology. WinWinD technology combines the reliability of a direct drive and the compactness of a traditional high-speed gear system. Optimal mechanical load management ensures high reliability, high availability and low maintenance costs; while full power frequency conversion ensures maximal grid compliance. WinWinD turbines are type certified and operations are ISO 9001 certified. Each turbine goes through rigorous testing before leaving the factory.

## KEY ADVANTAGES

- High efficiency
- Loads bypass gears and generators
- Maximal grid compliance
- 30% fewer moving parts than traditional geared system
- Low maintenance costs
- Ideal for low-wind-speed sites

## BENEFIT

Reliable

Productive

Grid compliant

## TECHNOLOGY

By using an integrated power unit, comprising the main bearing, planetary gearbox and permanent magnet synchronous generator, we have eliminated high-speed gear components. The main bearing transfers the rotor loads directly to the main casing of the supporting structure, keeping the whole drive train free from deformation.

Variable-speed pitch-controlled and energy-optimized blades with large rotor diameters maximize energy capture even at sites with low wind speeds. A permanent magnet synchronous generator provides the highest efficiency at partial and rated power.

Utilizing a permanent magnet synchronous generator, full power frequency converters and sophisticated pitch control, WinWinD turbines meet the most demanding grid code requirements.

# Winning together

Our strategy is to generate win-win situations: with our customers, our partners and the environment. We reach these targets by focusing on the requirements of our customers and by offering optimized tailor-made solutions.

Our aim is to generate business while acting in a responsible manner and taking care of our customers, the environment and our employees. We always comply with strictest safety standards in our operations.

## **WE DELIVER ON OUR PROMISES**

WinWinD has a proven track record of successfully delivering wind parks for extreme conditions - our turbines are working reliably in the Arctic and the tropics.

Our in-house competences and extensive network of local partners ensure optimal project delivery and reliable wind park operations & maintenance. WinWinD can offer a wide delivery scope, including turn-key deliveries of wind parks and smaller projects for private owners. We have the capability for planning, delivering, installing, commissioning and operating a successful and productive wind park.

To ensure high availability and productivity for the total lifecycle of your turbines, WinWinD offers our WinCare Operation & Maintenance services, providing immediate on-site response. Whichever way the wind blows, WinCare is always locally present and able to meet your needs.

## **WINWIND HAS CERTIFICATES FOR**

ISO 9001 – Quality Management System

ISO 14001 – Environmental Management System

OHSAS 18001 – Occupational Health and Safety Management System



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