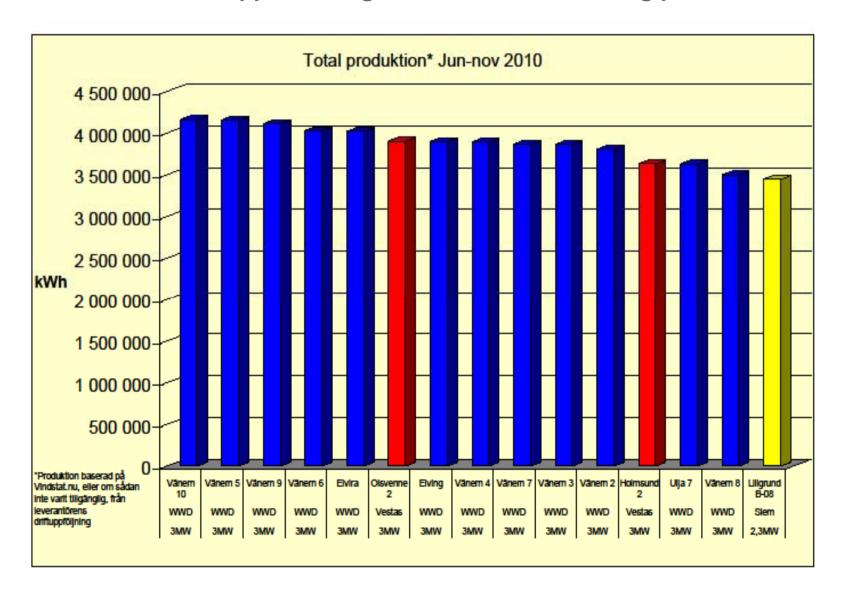
WinWind small supplier – large turbines – outstanding production



WinWinD has strong arctic expertise Over 10 years of experience in Nordic conditions Blade Ice Prevention System



WinWinD's Blade Ice Prevention System

- The turbines are ice-free regardless of harsh winters!
- The first successfully operating blade ice prevention system in multi-megawatt scale
- The world's biggest rotor with blade heating system
- •30 MW operating in Swedish Lapland







WinWinD has pioneered in the field of wind turbine ice prevention. The blades heat up from -7,6 °C to +20 °C in only 120 seconds. One turbine uses only 1,95 % of produced energy to blade heating. 30 MW operating in Uljabuouda, Sweden.

Our Ice Prevention System

- WinWinds ice prevention system is designed to ensure proper electricity production on sites with heavy icing
- The Ice Prevention System consists
- heating elements
- power supply
- control system





Operational experience

WinWind Ice Prevention System has optimized the function of the heating elements, power supply and control system and achieved:

- Reliability
- Optimized energy consumption of the system
- Durability
- Control
- Productivity in extremely demanding conditions
- Financial security





- •Light nacelle weight 80 t
- •120 m rotor diameter
- Exceptional productivity especially at low wind speeds
- Proven concept with 30 % less moving parts than conventional frive train system
- Designed for high availability
- Maximal grid compliance



120 m Rotor

The biggest rotor in WinWinD's history and one of the biggest in the markets

- •Excellent yields in low-wind-speed sites
- Compatible with WinWinD 3
- •Manufactured in-house by WinWinD which enables full capacity and quality control





