

Demonstrate Wind Turbine Reliability

Background

- Budget and time for design validation are tight
- New design and upscaling lead to uncertainty
- Subsystems are designed and produced by suppliers

Customer benefit

- Optimized test program saves time and costs
- Demonstrated Reliability builds trust in new design
- Elimination of failures during operational phase
- Return on investment via reduced number of warranty claims



Requirement

- Design a Validation program for a new design
- Involve suppliers of subsystems
- Consider testing and simulation activities

Solution: Uptime LOCATE™

- Identification of main Reliability Risk drivers
- Definition of Reliability targets for turbines and subsystems
- Failure Potential Analysis for relevant subsystems
- Assessment of Validation Tests