

CONVERTER HEALTH CHECK

24.500+ installations
25+ years experience



Why do we recommend a manufacturer inspection

- Certain critical issues are not covered by the normal scheduled maintenance cycle
- Over time, gradual wear leads to failure of converter components in the wind turbine
- The recommended system test incorporates customer feedback, personal experience and extensive internal error analysis

What is the added value



- 1 Software update
- 2 Reduce downtime
- 3 Increase in system reliability
- 4 Optimize spare parts planning
- 5 Degree of wear and trend recognition

CONVERTER HEALTH CHECK



What

What actions will be taken

- Checking of **available retrofit solutions** for your system type
- **Visual inspection** for damage

- Checking the **software** for available **updates**
 - Software update installation

- Take and analyze **data triggers**
 - Checking the switching times (aging process switches, contactors and relais)
 - Checking the control signals and set points of internal controls
 - Analyze the temperature of each IGBT phase and perform a heat sink endoscopy if necessary

- **Current symmetry measurement** and evaluation

- **Attenuation measurement** of the fiber optics
 - Polishing in case of abnormalities
- Detailed **inspection of critical components**
- **Analysis of critical parameters** of the frequency converter

- Carrying out of **functional tests**
 - DC-Link limiter
 - Crowbar, if applicable
 - Surge and arc protections
 - Circuit breaker (Trip Unit) / Grid protection monitoring
 - UPS-Operation and backup protection



Result

- Detailed report
 - Recommendations for spare parts planning
 - Recommendations for increasing reliability and improving functionality through upgrades and retrofits