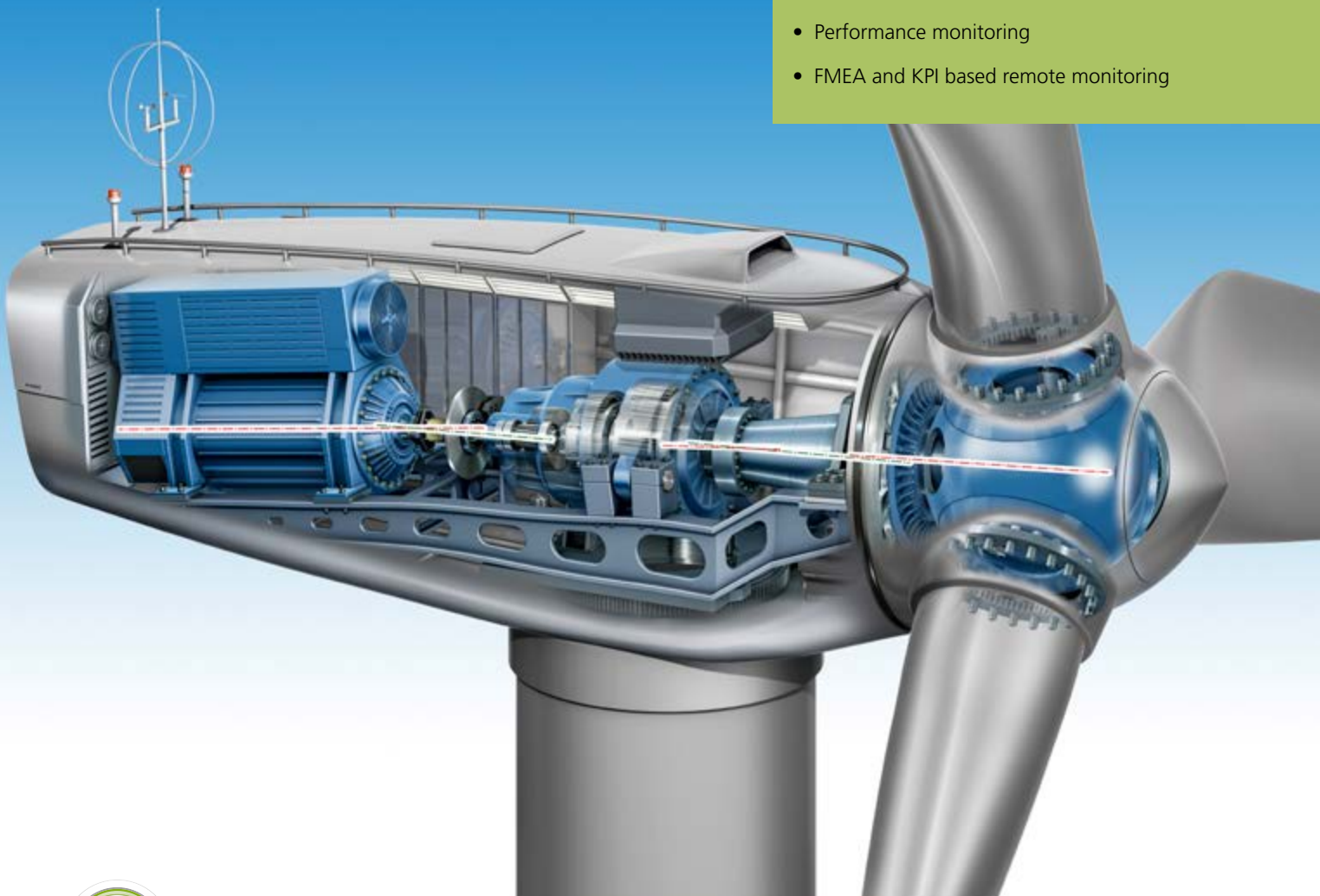


PRUFTECHNIK ServiceCenter

## Online-Monitoring of Wind Turbines

Including customer-specific reports

- DNV GL certified remote monitoring and diagnosis
- Early detection of machine defects
- Performance monitoring
- FMEA and KPI based remote monitoring



REMOTE MONITORING AND DIAGNOSIS WITHOUT TRAVELING OF SPECIALISTS

# MD 1.1 – Online-monitoring with customer-specific reporting

PRUFTECHNIK's Monitoring-Center, certified by the DNV GL, monitors machines, plants and nearly 2000 wind turbines. The turbine monitoring is an FMEA-based states diagnosis (Failure Mode and Effect Analysis). ISO CAT certified specialists are perform monitoring and diagnosis: for turbine monitoring specialists are ISO CAT I certified. Diagnosis specialists are certified with ICO CAT II, III and even ISO CAT IV.

Additionally to monitoring and diagnosis, the Monitoring-Center provides different types of customer-specific reports. The provided types are basic-reports, advanced-reports and diagnosis reports on demand. Depending on the turbine type, recommended are half-year, quarterly and monthly reports. Being close to our customers is the highest priority of PRUFTECHNIK and this is why our Monitoring-Center specialists present the reports, the diagnosis results and maintenance strategies during video conferences. It is also possible to save the live-presentation for our customers' review.



## Transparency means Trust

Partner, customer and other vibration specialists are able to have an insight into the Monitoring-Center's working procedures. In addition, acceptance reports are possible and are charged on hourly basis.



Frequency spectra analysis of OMNITREND® Center for fault detection and diagnosis

## Three reporting packages are available

### 1 Basic Report

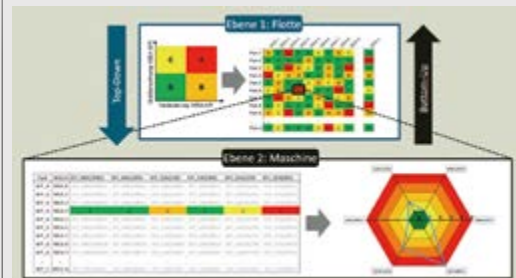
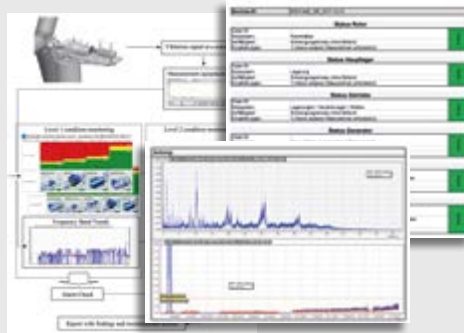
- ▶ Information about CMS- and communication status
- ▶ Information about status of single turbine components
- ▶ Information about complete wind park status

### 2 Advanced Report

- ▶ Documentation of running and operation behavior
- ▶ Documentation of vibration behavior
- ▶ Individual reporting
- ▶ Recommendations for corrections
- ▶ Fleet-Monitoring with VIBGUARD®

### 3 Diagnosis-Report with Remote Mentoring

- ▶ Video conferences presenting diagnosis methods and results
- ▶ Precise rating and diagnosis including documentation
- ▶ Substantial reporting
- ▶ Specifying corrections



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