

REFERENCES

AT 30 LOCATIONS IN GERMANY

Over 100 installations in 9 different types of plants from 6 manufacturers at 30 locations in Germany. We possess many years of experience, through which we meet the new challenges facing wind power plants.



Whether in your offices or ours - we would be delighted to advise you quickly and competently on all related questions.

MDSWind® CMS - CONDITION MONITORING SYSTEM



SEACOM

DIGITALE MESS- UND ÜBERTRAGUNGSSYSTEME GMBH

SeaCom Digitale Mess- und Übertragungssysteme GmbH is a division of the VULKAN Group and works with a core team of 20 permanent and freelance personnel.

The company was founded in 1996 and has been successfully working on the development, manufacture and application of measuring and monitoring systems for over 14 years. As a partner in the field of machinery diagnostics, SeaCom offers excellent evaluations, generated by experienced vibration specialists in its diagnostic center.

The condition monitoring system MDSWind®, developed for the wind power sector for the online condition monitoring of wind power plants, determines the mechanical vibrations of mechanical components of the drive train, ascertains the vibration spectrum and compares the current and anticipated conditions.

MDSWind®

MONITORING AND DIAGNOSTICS SYSTEMS FOR THE ONLINE CONDITION MONITORING OF WIND POWER PLANTS

MDSWind® determines the mechanical vibrations of the drive trains of wind power plants and diagnoses their condition. Any detected abnormalities are automatically reported to the responsible personnel and

archived in an alarm database for the purpose of failure investigation. The use of MDSWind® increases the plant availability and facilitates condition-orientated maintenance.

Principle structure of the MDSWind® early fault detection system



SeaCom communication structure

Wind farm with CMS (Condition Monitoring System)



SYSTEM OVERVIEW

ADVANTAGES WITH THE USE OF MDSWind®

The system comprises the MDSWind® server, with which it is possible to communicate with multiple front ends. The front end installed in the plant room logs the structure-borne noise from the gearing, the generator and the main bearing, as well as all operating variables required for the diagnostics.

The logged data is transferred by Ethernet to the MDSWind® server. This is where the analysis and archiving of the data takes place. It is possible to access the system at all times by telephone line or LAN. Simple to expand the system to include multiple wind power plants.

Avoidance of secondary damage (limitation to the extent of damage)

Minimisation of maintenance requirements without detrimental effects on operational reliability and plant availability.

Possibility of optimum condition-orientated maintenance (no replacement of parts still intact)

Possibility of remote monitoring and remote diagnostics with detailed information on the technical condition of wearing plant components

