

NORDEX AFTER SALES

Condition Monitoring Service

As the manufacturer, we know your turbines best. Our **After Sales products** are designed to enhance the performance of your wind farm and boost your business. Advanced and integrated solutions are offered to improve availability and safety of your turbines to gain even larger yields.




➤ Brief technical description

Condition monitoring of the wind turbine drivetrain enables reliable operation of the components by ensuring time to plan any required upcoming maintenance/repair tasks. Seven accelerometers are installed on the drivetrain components to measure vibrations continuously, systems used by Nordex are certified by DNV-GL.

Nordex specific CMS configuration, developed by Nordex Diagnostics, provides advanced characteristic values, which enables early and reliable detection of the failures of drivetrain components. Event reports are produced with five severity classes including actionable recommendations to plan service actions during scheduled maintenance to increase turbines availability.

Beside the condition monitoring service, supplementary services are also available to provide you with the detailed overview of the turbine conditions, as well as the vibration data for your own analysis.

Nordex condition monitoring services:

Enhance your wind turbines operation	Observe turbines condition Do your own analysis	Harmonize your whole fleet for your own analysis
 <p>Monitoring Diagnostics Reporting</p>	 <p>CMS on-line Portal</p>	 <p>Application Program Interface</p>
<p>*Included in our premium service contracts</p> <ul style="list-style-type: none"> ❖ Condition monitoring ❖ Evaluation and analysis of the recorded signals ❖ Smart quarterly CMS reports 	<ul style="list-style-type: none"> ❖ Actual condition of turbines ❖ Overview of all CMS reports ❖ Event reports ❖ Analysis tool 	<ul style="list-style-type: none"> ❖ Automatic downloads of time signals ❖ Harmonising your whole fleet with different CMS in your own analysis tools

➤ Benefits

- **Advanced Nordex CMS configurations** to **detect** the sub-component failures even **more than one year in advance**.
- Lowering **OPEX** by minimizing expensive failures via **planning and prioritisation of maintenance/repair tasks**
- Increasing **Availability** by **reducing unplanned downtime**
- Optimising **lifetime** of the drivetrain mechanical components
- **Transparency** to observe actual condition of the wind turbine