

Diagnostic Services

Expert support for improved maintenance planning

It is not only about detecting deviations from normal behavior, but also to find the root cause for the anomalies. The Siemens Energy Diagnostic Services team combines in-depth analytics with years of domain expertise to provide you with most reliable information on the health condition of your assets.

Services are based on CM500 Condition Monitoring (also known as Vibroexpert CM500), the diagnostic monitoring solution for all power plant machinery. Monitoring and detection of abnormal machine behavior at the earliest possible time enables the planning of cost-effective solutions. By sensitive diagnostic monitoring, CM500 Condition Monitoring provides information on possible mechanical causes of abnormal behavior (unbalance, bearing damage, incorrect alignment, cracks and loose parts). The solution includes all tools used for analysis and diagnostics and thus for determining the causes of machinery health issues. As part of the Siemens Energy Diagnostic Services you will get regular status reports and event-based notifications on the health of your assets from experienced Siemens Energy diagnostic experts. Additionally, you can request detailed reports and recommendations on demand to be able to schedule necessary repairs e.g. during a planned outage. Siemens Energy Diagnostic Services is available for any kind of turbo machinery (Siemens Energy or other manufacturers) including hydro generators, fans, pumps, motors, gearboxes, compressors, etc.

Continuous condition monitoring is the corner stone of transparency on the health status of machines.

As a maintenance manager you need to understand your asset risk profiles in order to be able to move from reactive maintenance to condition-based maintenance strategies.

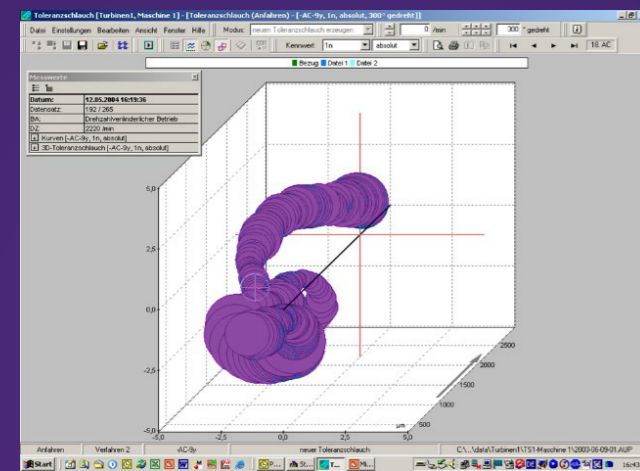
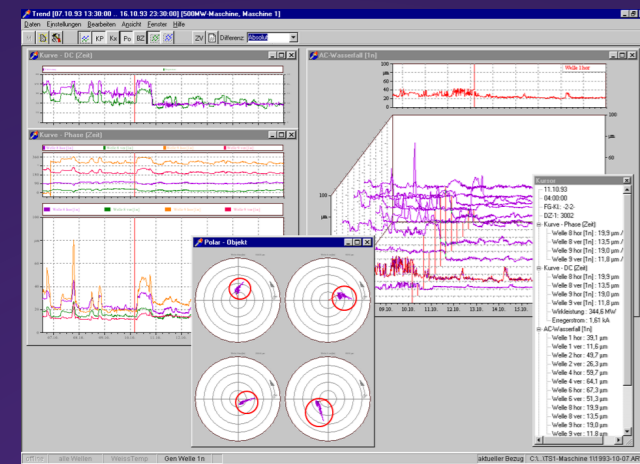
The Sequence of Diagnostic Services

Prerequisite CM500 Condition Monitoring for Diagnostic Services

Leading system for condition monitoring and root cause analysis for turbomachinery and balance of plant equipment.

Required: Remote access on demand for nominated Siemens Energy employees or alternatively regular transfer of measured values to Siemens Energy for diagnostics.

Buy or rent option for system if not already installed.



Setting the baseline

One-off payment at the beginning

- Recording of machine data
- Setting up the Vibroexpert CM500 software
- Setting of limit values according to ISO
- Defining the tolerance zones for monitoring the normal behavior of the machines

Corrective actions

Additional order

- Balancing
 - Alignment
- Further information on request

Regular and event-based status reports

Annual expenditure

- Regular status reports in the contractually agreed cycle (12x, 6x, 4x per year)
- Additional status reports in case of violation of limit values / tolerance zones*
- Status report containing list of machines with limit value violations and associated measured values
- Option to order detailed reports

* if the system is allowed sending email notifications to Siemens Energy

Detailed report and recommendations on demand

Payment on demand

In case of an official request by an authorized person:

- Detailed analysis of the machine condition
- Identification of causes of abnormal machine behavior
- Recommendations for action





Expert support
on demand



Improved
maintenance
planning



Fast information
in case of
anomalies

Siemens Energy Diagnostic Services provides you with reliable in-depth analysis of your assets' health status. Regular status and event-based reports indicate what is happening when and where. Detailed reports with recommendations from experienced Siemens Energy diagnostic experts support you in planning corrective actions and thus cutting operating costs.

With more than a century of service to the power generation industry, Siemens Energy brings experience, quality and expertise to every project. In fact, our O&M fleet experience totals more than 55 GW worldwide.

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