

Wienstrom Eliminates Problems Before Start Up and Experiences Annual Savings with Emerson's Machinery Health Technologies



RESULTS

- Improved alignment of rotating equipment provides annual savings of \$17,000
- Reduced work orders by almost 500% in 10 years
- Linked AMS™ Suite: Machinery Health Manager to SAP for streamlined work flow



APPLICATION

Power generation, including a new biomass power generation unit that produces green energy using woodchips.

CUSTOMER

Wienstrom – Vienna, Austria

CHALLENGE

Wienstrom, part of Wien Energie, is a leading Austrian power supplier, providing power to Vienna and surroundings. The price of energy is always a critical issue to the power industry, and Wienstrom wanted to be sure they could stay competitive. In 1994, they began to focus on predictive maintenance to reduce further unplanned shutdowns and increase production.

SOLUTION

Wienstrom began using condition-based monitoring (CBM) more than 25 years ago. In 1994, they introduced vibration analysis technology.

“Our main focus at Wienstrom is condition-based monitoring for our rotating equipment. We use CSI analyzers because we believe they are the best on the market. Using condition-based monitoring allows us to set our maintenance strategy and do future FMEA.”

Josef Rogi,
Maintenance Manager



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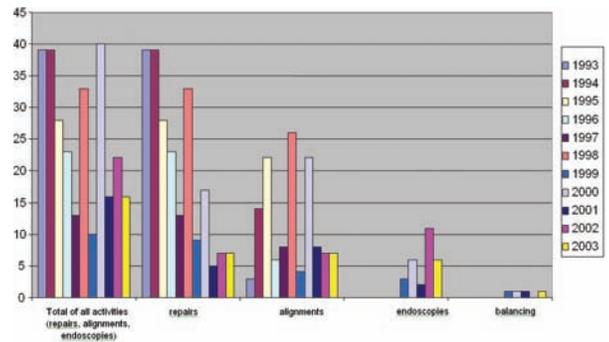
Since 1996, Wienstrom has worked with Emerson to improve the reliability of their mechanical assets, with specific focus on vibration analysis. This cooperation led to an expansion of Wienstrom’s CBM program. Over the years, Wienstrom has purchased several of Emerson’s Machinery Health technologies, including AMS Machinery Manager, CSI 2120 and 2130 Analyzers, CSI 7100 Scanner, CSI Machinery Health Imager, and the CSI 5200 Oil Analyzer.

After reducing the number of unplanned shutdowns, Wienstrom made a huge effort to check and correct the alignment of their assets. This simple step has saved them \$17,000 (12,980 euros) each year. The savings are even greater when adding the cost of bearing and seal replacement due to bad alignment.

Recently Wienstrom installed a new biomass power generation unit. This unit uses woodchips to produce electricity and district heating. By using the biomass unit, Wienstrom saves 144,000 tons of coal dioxide annually. The biomass unit allows Wienstrom to produce more “green energy” and reduce emissions, supporting their commitment to the environment. During initial commission of the unit, vibration analysis was performed and revealed problems in a gearbox. This problem was corrected before start up, saving money and preventing considerable start up problems.

The latest development at Wienstrom is the introduction of a SAP system, which is linked with AMS Machinery Manager to create a smooth flow of work orders and more efficient maintenance procedures.

By using predictive maintenance and Emerson’s Machinery Health technology, Wienstrom has reduced their risk of unplanned shutdowns and increased the availability of their rotating (and static) equipment, reinforcing their competitive edge in the power industry.



Amount of work orders over a 10 year span.

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AMS Suite: Machinery Health Manager powers PlantWeb with predictive and proactive maintenance through condition monitoring of mechanical equipment to improve availability and performance.

