

Siemens uses Vibro-Meter to protect and remotely monitor the world's most powerful gas turbine

"Irsching 4" near Ingolstadt (Germany) is the test power plant for the new SGT5-8000H, which is the world's most powerful gas turbine (GT) with a 340MW simple cycle power output. The GT was first fired in December 2007. After an 18-month trial operation period, it will be expanded to become a 530 MW combined cycle power plant (CCPP) and will be handed-over by Siemens to E.ON for commercial operation in 2011.



"Irsching 4" CCPP near Ingolstadt

This technologically leading CCPP will achieve an efficiency of 60%, which is a new world record. As a result, it will emit approximately 40000 tons of CO₂ per year less than comparable existing plants.

Monitoring vibrations and GT's combustion is a proven way to contribute to reliable GT operation, with the target of reaching the highest possible efficiency and lower emissions. Siemens has chosen Vibro-Meter to provide the monitoring system for the SGT5-8000H. Our integrated solution includes dynamic pressure sensors (CP), as well as relative and absolute vibration sensors (CA and TQ) and a VM600 protection & condition monitoring system.



Vibro-Meter's VM600 protection & condition monitoring system

All data collected by the VM600 are continuously transferred to Siemens' Intranet, interfaced with their Win_TS system (a global networked plant diagnostic platform). With these tools, experts working in Siemens' Diagnostic Centres (Erlangen and Orlando) and Research-and-Engineering Centres (Erlangen, Berlin, Muelheim, Orlando and others) can for example remotely calculate balancing for turbines located in plants all over the world. Using this information, staff on-site can balance a turbine without the need for an on-site visit by experts, saving time and cost.

Vibro-Meter is proud to contribute to Siemens' leading-edge technology and their outstanding support to customers.



VM600 data are used for turbine monitoring (© Siemens AG)

*Vibro-Meter's booth at PGE Milano is: 5/C40
Siemens's booth at PGE Milano is: 5/E01*

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