Successful completion of testing of world’s most powerful gas turbine
Siemens increases rated output from 340 MW to over 375 MW

Siemens Energy has successfully completed trial operation of the world’s most powerful gas turbine, the SGT5-8000H, in the Irsching 4 power plant right on schedule. After 1500 operating hours, 1200 at full load, and evaluation of the measured data the machine’s original rated output of 340 megawatts (MW) was raised to 375 MW in simple cycle duty. In combined cycle operation output will increase by 40 MW to more than 570 MW. These 40 MW are sufficient to supply a further 220,000 people with electricity. Expansion of the plant to a combined cycle station has in the meantime commenced. In 2011, E.ON will take over the world’s most environmentally friendly fossil-fueled power plant.

The test results fully meet the high expectations of the Siemens engineers. “With its energy efficiency and high performance level the new gas turbine is a prime example of climate protection,” said Michael Suess, CEO of the Fossil Power Generation Division of Siemens Energy. “Compared to the first advanced combined cycle plants the new gas turbine reduces annual CO₂-emissions by approximately 45,000 metric tons,” added Suess. That is equivalent to the annual CO₂ emissions from approximately 25,000 mid-range cars clocking up 20,000 km a year.

“In Irsching, Block 4, we were able to experience the performance of the world’s most efficient gas turbine for ourselves,” said Bernhard Fischer, Member of the Managing Board of E.ON Energie AG and E.ON’s CTO. “Expansion is currently under way to a combined cycle power plant. With its commissioning in the year 2011, it will similarly set new standards when it comes to efficiency and output,” added Fischer.

High efficient gas turbines are part of the Siemens environmental portfolio with which the company earned revenues of nearly EUR19 billion in fiscal 2008, That is, equivalent to about a quarter of
Siemens’ total revenue and makes Siemens the world’s leading provider of eco-friendly technology.

The **Siemens Energy Sector** is the world’s leading supplier of a complete spectrum of products, services and solutions for the generation, transmission and distribution of power and for the extraction, conversion and transport of oil and gas. In fiscal 2008 (ended September 30), the Energy Sector had revenues of approximately EUR22.6 billion and received new orders totaling approximately EUR33.4 billion and posted a profit of EUR1.4 billion. On September 30, 2008, the Energy Sector had a work force of approximately 83,500. Further information is available at: [www.siemens.com/energy](http://www.siemens.com/energy).