

Energy

Fossil Power Generation

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Siemens to supply first 500-MW coal gasifiers to China

After a production period of only 18 months Siemens Energy is to deliver the first two of five coal gasifiers to Shenhua Ningxia Coal Industry Group Co. Ltd. (SNCG) in China. The coal gasifiers, each with a thermal capacity of 500 megawatts, are destined for the Ningxia coal-to-polypropylene (NCPP) plant in Ningxia Province in northwest China. After completion in early 2010, the plant with its five gasifiers will have an hourly production capacity of approximately 540,000 cubic meters of syngas, which will then be converted in downstream processes to polypropylene plastic.

The Siemens coal gasifiers, which are 18 meters long with an inside diameter of 3 meters and weigh 220 tonnes, are among the world's largest and most powerful. They are capable of gasifying up to 2000 tonnes of coal daily. In the gasification process hard coal, lignite and other substances such as biomass, petcoke and refinery residues will be converted to syngas, and environmental pollutants such as sulfur and carbon dioxide subsequently removed. The syngas can then be used for eco-friendly power generation in integrated gasification combined cycle (IGCC) plants or as a raw material in the chemical industry, for example in the production of synthetic fuels.

The Siemens 500-MW coal gasifier is characterized by its straightforward design, high availability level, low servicing requirements, and fast startup and shutdown. Work is already in progress on gasifiers in the next higher capacity class.

In 2006, Siemens acquired the technology for the gasification of fossil raw materials and the 50-percent stake in the Chinese joint venture with Shenhua Ninxia Coal Industry Group from the Swiss company Sustec Holding AG.

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 2007 (ended September 30, based on IFRS), the Energy Sector had revenues of approximately EUR20 billion and received new orders totaling around EUR28 billion and posted a profit of EUR1.8 billion. The Energy Sector had a work force of 73,500 at the beginning of fiscal 2008. Further information is available at: www.siemens.com/energy.

All figures represent the sum of the nonconsolidated figures for the Power Generation and Power Transmission and Distribution Groups and for the Oil and Gas activities of the Industrial Solutions and Services Group.