



New gas-fired power plant in Shanghai uses MAN turbine technology

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CO₂ emissions reduced by 59,000 tons per year

An opening ceremony on January 19, 2016, saw a new gas-fired combined heat and power plant being put into operation at SAIC VOLKSWAGEN AUTOMOTIVE COMPANY LIMITED— a joint venture between Chinese SAIC and German Volkswagen Group. The plant contains four sets of MGT 6200, the latest range of gas turbines by MAN Diesel & Turbo.

Attending the ceremony were Prof. Jochen Heizmann, President and CEO of Volkswagen Group China, and Dr. Uwe Lauber, CEO of MAN Diesel & Turbo.

“The inauguration of this combined heat and power system is a landmark for our car production in China. The new plant not only provides steam and electricity for our Car Plant 3 here at SAIC Volkswagen, it also means we no longer use coal boilers so CO₂ emissions will be reduced by 59,000 tons each year,” explained Prof. Heizmann during the ceremony.

The plant also marks the premiere of MAN Diesel & Turbo’s latest gas turbine series in China, with the order dating back to December 2014. Each of the four turbine sets delivers electrical power by driving a generator. Additional use of the waste heat for producing process steam increases the plant’s overall efficiency to more than 80 percent. The steam is used at the production works of the Volkswagen Joint Venture in China.

“We are elated to be involved in this project,” said Dr. Lauber after the ceremony. “Today, we have inaugurated a gas-fired power plant that covers almost 25 percent of the energy needs of one of the biggest car production sites in the country, which is low in greenhouse gas emissions and utilises more than 80 percent of the invested fuel energy. MAN and the Chinese industry look back at a decades-long tradition of partnership in many technological fields. Now that the Chinese government has set ambitious goals to reduce the country’s carbon footprint, our gas turbines and engine technology can help to reach these goals and reduce CO₂ emissions.”

With awareness of air pollution in China increasing, the government is pursuing an active program to lower emission levels and increase energy efficiency. The new CHP plant fulfills this objective by producing electricity to cover 100 percent of the annual demand in Car Plant 3 and the neighbouring

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gearbox plant in Anting, thereby reducing CO₂ emissions by approximately 23 percent.

According to the National Energy Administration, the gas supply in China is expected to reach 400 billion cubic metres in 2020, and natural gas will increase to represent 10 percent of primary energy consumption. Natural gas as a clean, efficient energy source is receiving increasing attention from the government and will gradually become one of the backbones of China's energy supply.

About MAN Diesel & Turbo

MAN Diesel & Turbo SE, based in Augsburg, Germany, is the world's leading provider of large-bore diesel and gas engines and turbomachinery. The company employs around 14,500 staff at more than 100 international sites, primarily in Germany, Denmark, France, Switzerland, the Czech Republic, India and China. The company's product portfolio includes two-stroke and four-stroke engines for marine and stationary applications, turbochargers and propellers as well as gas and steam turbines, compressors and chemical reactors. The range of services and supplies is rounded off by complete solutions like ship propulsion systems, engine-based power plants and turbomachinery trains for the oil & gas as well as the process industries. Customers receive worldwide after-sales services marketed under the MAN PrimeServ brand.