



## Steam turbines for largest solar power plant in the world and for waste-to-energy facilities

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### MAN Turbo receives orders to the amount of €100 million

The MAN Turbo group, Oberhausen, is well equipped for the power generation market of the future. This is underscored by orders totaling approximately 100 million Euro for steam turbines to be used at solar power plants (solar heat) as well as at biomass-to-energy and waste-to-energy facilities. This gives the company a beneficial position in the expanding global market for energy sources that utilize resources and the climate sustainably without harming them. "The proportions of different energy sources will change in the future, meaning that renewable energy will play a greater role. For example, CO<sub>2</sub> reduction goals will lead to a greater demand for energy sources such as solar heat. Also, operators of so-called classic industries will place higher and higher emphasis on significantly greater efficiency from the energy they use. Our products can offer a valuable contribution," explains Dr. Hans-O. Jeske from the MAN Turbo board.

Masdar Abu Dhabi Future Company, Abu Dhabi, ordered a 125 MW steam turbine from MAN Turbo. Shams 1 – currently the largest solar power plant in the world – is being built in Medinat Sayed, about 150 km from the capital Abu Dhabi. The steam turbine is the biggest that has ever been used for solar heat. The deciding factor for purchasing this specific steam turbine was MAN Turbo's own concept, which drastically improves effectiveness and allows the entire solar power plant to work much more efficiently.

The company had already proven the merit of its concept at a facility in Spain. The parabolic trough power plants Andasol 3 in Andalusia and Iber-sol in the southwestern section of the Iberian peninsula will use two steam turbines with a capacity of 50 MW each.

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MAN Turbo will also supply an 80 MW steam turbine to the largest waste-to-energy plant in Great Britain, currently under construction in southeast London. Beginning in 2011, the facility intends to generate energy from 585,000 tons of municipal and industrial waste per year. Each of the plant's three incineration lines will process approximately 32 tons of waste per hour. The 80 MW steam turbine will deliver electricity to around 66,000 households per year.

There were many factors that led the company to choose MAN Turbo. MAN Turbo presented a wide array of interesting reference projects with similar operational and efficiency requirements of the steam turbine. Another benefit was the high flexibility of the turbine that enables it to handle the special load cases that the customer requires.

The company is supplying two steam turbines, 25 MW and 20 MW, for the expansion of two waste processing plants in Germany and Switzerland. The two turbines, manufactured at the MAN Turbo facility in Hamburg, will be used in processes involving the cogeneration of heat and power, ensuring that maximum energy is produced from the waste.