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MAN steam turbines for CHP plant in Leipzig

Public utility company Stadtwerke Leipzig invests in the further development of its gas and steam turbine plant for district heating in Leipzig (Germany).

MAN Energy Solutions has been awarded the contract for two MST050 steam turbines, each with a gearbox, generator and auxiliary components. The steam turbines with a total power output of approx. 56 MW will be put into operation in a CHP power plant, which supplies the city of Leipzig with electricity and heat.

Today, the CHP plant generates up to 174 MW of electrical energy and 200 MW of thermal energy. Thanks to the environmentally friendly and efficient cogeneration process, the condensation heat that is not used to generate electricity is utilized in the citywide district heating network – thus reducing the CO₂ emissions and using the primary energy from the gas fuel efficiently.

The further investment in the CHP plant is part of the public utilities' future concept: with the additional capacity, the city of Leipzig intends to reorganize its district heating supply, which is currently partly dependent on the Lippendorf coal-fired power plant, by end of 2022.

"We are very proud to contribute to the achievement of the sustainability goals set out for Leipzig's energy supply," says Uwe Lauber, CEO of MAN Energy Solutions SE. "MAN's technology enables efficient and resource-friendly power generation for a reliable electricity and heat supply."

"The customer's decision to order from MAN Energy Solutions was made due to the high efficiency and flexibility of our technology. The MAN steam turbines are perfectly adapted to meet the needs of Stadtwerke Leipzig and will thereby increase the overall capacity of the CHP plant," explains Lars Schumacher, Sales Manager for Steam Turbines at MAN Energy Solutions in Oberhausen.

The overall efficiency of the plant was further optimized by integrating the auxiliary cooling circuits in the district heating system. Furthermore, ATU (Analytics Telemetry Unit) boxes by PrimeServ Assist, which are connected to the MAN CEON digital platform, will be integrated in the turbines. These enable the customer not only to have a round-the-clock monitoring of the machine operation, but also to receive fast access to remote support from MAN.

Delivery and installation of the steam turbines in Leipzig are scheduled for the first quarter of 2021.

MAN Energy Solutions enables its customers to achieve sustainable value creation in the transition towards a carbon neutral future. Addressing tomorrow's challenges within the marine, energy and industrial sectors, we improve efficiency and performance at a systemic level. Leading the way in advanced engineering for more than 250 years, we provide a unique portfolio of technologies. Headquartered in Germany, MAN Energy Solutions employs some 14,000 people at over 120 sites globally. Our after-sales brand, MAN PrimeServ, offers a vast network of service centres to our customers all over the world.



MAN steam turbine during assembly



MAN steam turbine rotor