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Alstom signs a contract worth €450 million with Grosskraftwerk Mannheim AG to supply innovative steam turbine and boiler technology

Alstom has signed two contracts, worth a total value of approximately 450 million euros, known as the Mannheim 9 project, to supply Grosskraftwerk Mannheim AG with new boiler and turbine units at the company's Mannheim power plant in the state of Baden-Württemberg, Germany.

The new unit* will have an electrical output of over 900 MW and will supply 25% of the Rhein-Neckar region's electricity, the equivalent of approximately 600,000 households. It will replace the existing units 3 and 4 (with an output of only 220 MW each), which will be taken out of service after the commissioning of the new unit in 2013.

Grosskraftwerk Mannheim is a coal-fired cogeneration plant with an installed base of 1675 MW which produces up to 1000 MW of heat as well as electricity, and has been supplying both heat and power to the region for over 85 years. District heating applications such as these help save 200,000 TCE (ton of coal equivalent) primary energy and 300,000 tonnes of CO₂ per year. The new unit will help increase this figure.

The combined heat and power production significantly contributes to reduce emissions. The new unit will use less coal, reducing the power plant's overall CO₂ emissions by about 1 million tonnes per year and conforming to the objectives of the German government, with a strong focus on reducing the country's greenhouse gas emissions.

"Innovative technology such as that installed at Mannheim 9 is essential for reducing CO₂ emissions in our customers' coal-fired plants, commented Guy Chardon, Senior Vice President Thermal Products, Alstom Power, and we look forward to further supporting the implementation of cleaner power generation on the German market".

**The scope of the Mannheim 9 project includes a STF 100 5 casing steam turbine, a Gigatop 2-pole turbogenerator and a condenser, and has been completed by a Tower Type Boiler island with SCR and preheater, including coal bunkers, mills, and auxiliary systems. Alstom will also carry out transportation to the site, full erection, commissioning, trial-run and performance tests both for the steam turbine generator set and the boiler island.*

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