Press Release

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Alstom wins a 330 million euro contract for a combined cycle power plant fuelled by blast furnace waste gas in Brazil

Alstom has received a 330 million euro turnkey contract from Brazilian steel producer ThyssenKrupp CSA Companhia Siderúrgica to build a 490 MW turnkey combined cycle power plant.

The power plant, to be located in Sepetiba, Rio de Janeiro State, Brazil, will be fuelled by blast furnace waste gas from a new steel mill, which will be built in parallel by the customer, with excess energy exported to the national grid.

The project will be carried out in two phases, with the plant operating in simple cycle first, allowing power to be produced early on in the project. In the second phase, further equipment will be added to give full combined cycle operation.

Alstom will provide all engineering, procurement and construction services to deliver a fully integrated blast-furnace-gas-fired combined cycle plant including balance of plant, civil works and erection. The power plant will integrate in-house core plant components consisting of two GT11N2 gas turbines, heat recovery steam generators, one steam turbine and three turbo generators.

Alstom's GT11N2 gas turbines have the unique capability of burning waste gases with such low calorific value, as those produced at the Sepetiba steel plant. The turbines produce, when integrated in an Alstom combined cycle, 10 % more power compared with the more conventional steam plant solutions typical for blast furnace gas applications.

Philippe Joubert, President of Alstom Power Systems, said: "Using gas that would otherwise be wasted to produce power is both of economic and environmental benefit. Alstom has a range of power solutions which can help industry reduce emissions and maximise commercial value."

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