

Alstom and E.ON Benelux have agreed on a contract to provide steam turbine for a power plant in the Netherlands

Alstom and E.ON Benelux have agreed on a contract to supply the steam turbine unit for the new fossil-fuel power plant at the Maasvlakte power station in Rotterdam.

Like the existing Maasvlakte power plant, the new unit will be able to co-fire biomass and is being designed for subsequent retrofitting with carbon capture technology. Strategically located near the North Sea and the Rotterdam harbour area, the new power plant can maximally profit from seawater for cooling and deep waterways for supply of coal and biomass.

Alstom will provide a 1110 MW steam turbine generator package* and will carry out transport to the site, full erection, commissioning and trial runs. This technology will contribute to a net efficiency of 46%, compared with a European average of 36%, thus improving the environmental performance significantly.

"This new generation of steam turbine generator technology, resulting in high plant efficiency, is key to significantly reducing CO₂ emissions in coal-fired power plants while considerably improving power plant economics," commented Guy Chardon, Senior Vice President, Alstom Power Thermal Products.

"In this project we combine state-of-the-art technology", says Aris Blankenspoor, general project manager of E.ON's Maasvlakte Power Plant 3 project. "New boiler technology, with super critical steam parameters of 285 bar and 620°C, is key to an efficiency improvement of about 20% per Kilowatt. We need less coal for the same amount of energy. Our flue gas treatment results in the lowest possible specific emissions e.g. for dust, SO₂, CO₂ and NO_x. Thus realising a coal-fired power plant with emissions, comparable with gas-fired units.

The new Maasvlakte power plant is scheduled to start commercial operation from 2013.

**The package includes 1 steam turbine with heat extraction, generator and condenser, HD5X8 + MD5X + 3XND49AU/B + 50WT25E-160, and 1 x boiler-feed-pump-turbine (BFPT 245) + condenser.*

About Alstom

Alstom is a global leader in the world of power generation and rail infrastructure and sets the benchmark for innovative and environmentally friendly technologies. Alstom builds the fastest train and the highest capacity automated metro in the world, and provides turnkey integrated power plant solutions, equipment and associated services for a wide variety of energy sources, including hydro, nuclear, gas, coal and wind. The Group employs 81,000 people in 70 countries and had orders of €24.6 billion in the fiscal year 2008/09.

About E.ON Benelux

E.ON Benelux was established in 1941 and since 2000 has been part of E.ON Energie AG. E.ON Benelux's power stations with a total capacity of 1,850 MW are located in the province of South Holland, the economic heart of the Netherlands. The company has some 700 personnel. E.ON Benelux is based in Rotterdam.

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