

18th November 2011**Scheufelen invests in energy efficiency**

The paper industry is one of the most energy-intensive sectors. Cost-effective solutions for boosting energy efficiency are therefore in particularly high demand.

Based in Lenningen, Germany, Papierfabrik Scheufelen is committed to making full use of potential energy savings and is keeping its energy costs in check with pioneering measures. As part of a comprehensive concept to improve energy efficiency, the company is replacing the heat exchanger on its PM5 paper machine. The existing single-stage exhaust air heat exchanger on the hood drier is being replaced by a more effective two-stage air-air and air-water heat exchanger. This single measure represents an investment of around 750,000 euros, yet Scheufelen will recover this in less than one year. Specialists from Finland's EV Group are supervising this investment project, including the implementation phase at the Scheufelen plant at the end of 2011.

The new heat exchanger with a total thermal output of 2.8 megawatts is based on a two-stage principle. In the air-air section, exhaust heat warms the newly introduced external air, for example from five to 48°C. In the air-water heat exchanger, meanwhile, exhaust heat is used to heat the process water – which includes a proportion of fresh water and is recirculated in a virtually closed circuit – from around 37 to 55°C.

The drying process alone accounts for more than 70 percent of total production energy consumption in paper manufacturing. At temperatures of around 110°C, more than 1,000 kilowatt-hours of steam is needed to dry one tonne of paper. The more heat that can be channelled back through the air and water exchanges into the production operation, the lower the conventional energy requirements.

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The new stainless steel tower designed specifically for Scheufelen is roughly 15 metres high and weighs just under 14 tonnes. It will stand just outside the production hall where the PM5 is located. Whereas the previous technology used glass tubes encased in steel for the exhaust air, a stainless steel lattice structure now ensures high heat exchanger efficiency. The new heat exchanger is far more efficient than the previous system.

“Scheufelen is fully committed to improving energy efficiency. The company will therefore continue to make full use of potential energy savings. The aim of these measures is to safeguard jobs and the company as a whole by continuing to offer a competitive price-performance ratio,” says PL5 Production Manager Dr. Jürgen Höckel on the subject of Scheufelen's investment in the new two-stage heat exchanger.

Caption:

Recovering heat from paper machines

Source:

EV Group, Turku, Finland
www.evgroup.fi



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Papierfabrik Scheufelen GmbH + Co. KG

Scheufelen, founded in 1855, was acquired by Paper Excellence in May 2011. At the Lenningen site in Germany around 550 employees manufacture up to 300,000 tonnes a year of high quality, coated, wood free premium paper from FSC and PEFC certified pulp. The paper brands phoenixmotion, parilux, heaven 42, bvs and bro exist in a grammage range from 90 g/m²– 400 g/m² and are available with matt, semi matt and glossy surfaces. Typical areas of application include sophisticated business reports, image brochures, advertising brochures, high quality books, art prints and calendars. The Papierfabrik Scheufelen sells its products worldwide.

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