

Manufacturers

UPM: Rebuild of chemical recovery plant completed

UPM has completed the rebuild of the chemical recovery plant at its Kymi pulp mill in Kuusankoski, Finland. The new plant has started operations after a one month test period preceded by large connecting work between production lines. The project employed 1,057 people as maximum. The final investment value exceeds EUR 340 million.

The new recovery plant replaces two outdated chemical recovery lines by one modern line. After the investment,

Kymi is a very competitive mill with integrated pulp and fine paper production and an annual paper production capacity of 840,000 t with two paper machines. The new recovery plant improves the site's energy self-sufficiency as well as production efficiency. In addition, fossil carbon-dioxide emissions, odour emissions and other emissions to air will be decreased. The new plant enables to increase the use of biofuels and to double bio-electricity production capacity.

Norske Skog: Establishing a company to produce diesel from woody biomass

Xynergo's first objective is to build a prototype plant for the production of synthetic diesel based on woody biomass at Norske Skog Follum in Norway. It is scheduled to start-up operations at the end of 2010. The company is owned by Norske Skog, Viken Skog, Allskog, Mjøsen Skog and Statskog. The Company Board consists of Rune Gjessing (senior vice president for strategy in Norske Skog), Olav Sletbakk (head of sales and development in Viken Skog), Kjell Bjørndalen (former president of the Norwegian

United Federation of Trade Unions), Wenche Ravlo (general manager of Norske Skog Follum) and Tom Bratlie (vice president corporate affairs in Norske Skog).

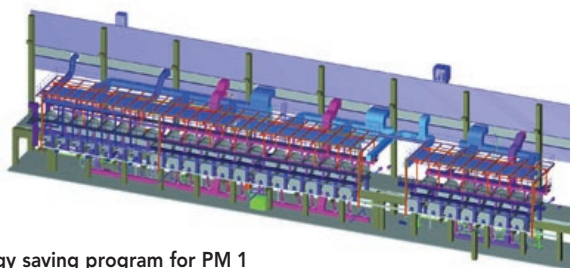
A full-scale facility could be operative in 2015 and Xynergo believes that such facilities are able to produce diesel quantities corresponding to approximately 15% of the annual Norwegian diesel consumption for road transportation.

Xynergo is now recruiting new employees to take part in the project.

undertaken by Bellmer's subsidiary company Lang-Hafner. The hood's rolling curtains will be replaced by insulated lift gates, which will allow the operation dew point to be increased to approximately 58°C. The machine will be equipped with a new wire blower unit which will help

energy from the hood exhaust air. A secondary hot-water circuit will be installed for heating in the new hall ventilation system.

Thanks to the energy that will be recovered from the hood exhaust air, it will be possible to operate the new hall's ventilation without addi-



Energy saving program for PM 1

enhance water vaporisation. The remodelling and integration of the heat recovery plant (air/water) will optimise use of

tional primary energy. In addition, the existing steam and condensate system is to be optimised.

Andritz: Biomass boilers for ENCE and Portucel

Andritz has been entrusted with the supply of steam boilers based on fluidised bed combustion technology for power plants in Spain and Portugal using biomass as fuel. The value of the orders is over EUR 80 million.

To Grupo Empresarial ENCE, S.A., Spain, Andritz will supply a high pressure steam boiler plant for their pulp mill in Huelva, Andalusia, Spain. The 170 MW boiler will use energy cultivates and forest residues as fuels. Start-up of the plant is scheduled for the end of 2009. When completed, the plant will be

one of the largest green electricity biomass power plants in Spain and will generate 50 MWe of green electricity supplied to the grid. To Portucel – Empresa Productora de Pasta e Papel, S.A., Portugal, Andritz will deliver steam boilers for their two power plants to be built at the Cacia and Setúbal mills in Portugal. Electric power output of the plants will be 15 MWe each. The boilers are based on fluidised bed technology and the fuel used (50 MW/unit) is mainly eucalyptus and pine. Start-up of both plants is scheduled for the end of 2009.

Suppliers

Lang-Hafner: Saving energy for Mitsubishi paper mill

Mitsubishi HiTec Paper Bielefeld GmbH has started an extensive energy saving program for PM 1. In addition to a complete machine

air system upgrade, Mitsubishi has specified a complete overhaul of climate control in the production hall. The modernisation work will be

Süd-Chemie and Linde: Production plants for second-generation biofuels

Süd-Chemie AG and Linde Group have agreed to cooperate on an exclusive basis to develop and market plants for the production of second-generation biofuels.

This will involve a biotechnological process to extract fuels such as ethanol from plant matter containing cellulose, such as wheat and maize straw, grasses or wood. While