

UPM Pietarsaari, Finland Wisa 800 REC-project



Mill description

UPM-Kymmene is one of the leading paper companies in the world. The company's businesses focus on magazine papers, newsprint, fine and specialty papers, converting materials, and wood products. The company has production in 17 countries and an extensive sales network comprising over 170 sales and distribution companies.

Project Description

Electrification delivery included

UPM-Kymmene invested in a new single-line recovery island at the Pietarsaari kraft pulp mill in Finland. The production capacity of the pulp mill increased from 620,000 tons to 800,000 tons per year. The new recovery island improves cost efficiency at the mill and significantly reduces emissions per ton of pulp produced.

Upon completion of the investment, the annual pulp wood demand increased by one million solid cubic metres. Most of the additional demand is for soft wood. Furthermore, the sawdust from the Pietarsaari mill integrate, about 200,000 m³ a year, is utilized as raw material in pulp production. Sawdust pulp is cooked in a separate sawdust digester that is included in the investment package. Bleached sawdust pulp is mixed with the hard wood kraft pulp. The sawdust was previously burnt in the lime kiln.

Start-up

Commercial production of the pulp mill's new recovery island started in May 2004.



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ABB Scope of Supply

The ABB delivery included electricity supply, process electrification inclusive of apparatus and application engineering, installation, commissioning and training.

Electrical Delivery Equipment and systems

| | |
|--|---------|
| Main transformers | |
| • 16 ... 175 MVA | 4 pcs |
| Distribution transformers | |
| • 125 ... 4000 kVA | 27 pcs |
| Medium voltage switchgear | |
| • ABB Unigear ZX1 with REF and REM relays | 5 pcs |
| Low voltage switchgear | |
| • 400 V/690 V MNS | |
| Auxiliary DC power systems | |
| Single variable speed drives | |
| • type ACS800 | 100 pcs |
| LV and MV motors | |
| • 10 kV: 2600 kW type AMB | 3 pcs |
| • 800 kW type HXR | 3 pcs |
| • 690 V: 630 - 1400 kW type HXR | 9 pcs |
| • 500 kW type M3 | 300 pcs |
| Power distribution control system | |
| • including dynamic load shedding | |

Human resources

- ABB companies in Finland, Italy, Germany and Sweden

Single Source Benefits

- Single source supplier
- Integrated products and systems
- Professional project management
- Comprehensive services

Contact Us

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