Mill description
Stora Enso’s Langerbrugge paper mill is situated in the city of Ghent, Belgium. The new L4 project is one of the largest pulp and paper projects in Europe in 2003. Stora Enso invested in a new newsprint production line with a capacity of 400,000 tons per year. With a wire width of 11.1 meters, PM4 is the widest paper machine in the world. The existing PM3 production line was also modernized at the same time.

Scope of supply
ABB delivered the electrification, drive system, mill ventilation, installation materials and all product related services for the PM4 production line and a Quality Control solution for PM 3.

Start-up
Electrical supply
- 36 kV gas insulated switchgear
- Is-limiter
- SCADA System
- 6 kV motor switchgear
- 6 kV motors
- Low voltage motors
- Site services
The delivery included the switchgear engineering, related auxiliary systems and connections to the utility company and the old plant, installation of the equipment, commissioning, start-up and training

Technical details
- 36 kV GIS switchgear
  - type ZX2 and XZ1.2
  - 37 cubicles with REF545 relays type
- 36 kV Power link 125 MVA
- Is-limiter 1250 A
- 6 kV Motor Control Switchgear
  - 6 cubicles with REM543 relays, type Unigear ZX1
- MicroSCADA network control and monitoring system
  - energy reporting
  - OPC interface with the DCS system
- 6 kV motors
  - 6 pcs, types AML, AMB, AMA
- 400/690 V and 500 V motors
  - 620 pcs, types M3, HXR

Human resources
- ABB companies in Finland, Belgium, Netherlands, Germany and USA

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

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