

LEIPA Georg Leinfelder GmbH
Project PM4
Schwedt/Oder, Germany



A greenfield LWC paper mill with a production capacity of 300 000 t/a.

PÖYRY SERVICES

- pre-feasibility and market study
- feasibility study
- permits and environmental audit
- site preparation and balance of plant services
- electrical engineering
- HVAC engineering
- detail engineering of utility systems and auxiliary departments
- mechanical and 3D piping engineering (PM 4)
- site management
- time scheduling
- procurement support
- engineering tools: 3D Model, ProElina, DocHotel
- erection supervision
- commissioning and start-up services
- document management (DocHotel) and site archive management



Schedule

Start-up at the beginning of July 2004.
Project implementation time 19 months

Total investment

EUR 330 million

TECHNICAL DATA

Product

- LWC paper in the grammage range 48 - 65 g/m²

Raw material

- waste paper 80-100 %
- virgin pulp 0-20 %

Deinking plant

- single-line plant
- production capacity 850 BDt/d
- supplier: Voith Paper Ravensburg

Paper machine

- production capacity 300 000 t/a
- furnish 80-100 % deinked pulp and 0-20 % virgin pulp
- production speed 1800 m/min
- design speed 2000 m/min
- wire width 8900 mm
- trimmed width after winder 8060 mm
- 1-nip Ecosoft calender
- coater with roll diameter 1700 mm
- 10-roll Janus calender MK 2

Pöyry Forest Industry Oy

P.O.Box 4 (Jaakonkatu 3), FI-01621 Vantaa, Finland
Tel +358 10 3311, Fax +358 10 33 21818, www.forestindustry.poyry.com

Competence. Service. Solutions.

- paper storage 7200 m²
- PM 4 supplier: Voith Paper

Winders

- 2 winders VariTop,
supplier: Voith Paper
- 1 rewinder VariFlex S,
supplier: Voith Paper

Roll handling

- 1 wrapping line Twister,
supplier: Voith Paper

Extension of freshwater treatment

- 6 additional gravel filters
- new fresh water tank, 3000 m³

Extension of effluent water treatment

- new effluent water tank, 3000 m³
- additional anaerobic reactor,
supplier: Paques

Sludge dewatering

- 2 sludge presses, supplier: Andritz
- capacity 300 t BD/d

Extension of energy supply

- 2 additional gas boilers,
supplier: VKK Standardkessel
- additional capacity 68 t/d steam

Automation

- main supplier of process and
machine control systems:
Voith Paper
- platform: Siemens PCS 7

Electrification

- main supplier for electrical
equipment: Siemens