Mill description
Gold East Paper (Jiangsu) Co. Ltd., Dagang mill is the world’s largest fine paper mill, and is owned by Asia Pulp and Paper Co., APP. The mill is located on a 5.6 million square meter site in the Dagang Economic Zone, near to Zhenjiang, Jiangsu Province in China.

The Dagang mill operates two production lines for coated and uncoated fine paper with an annual capacity of 1,000,000 tons. The design speed for both machines is 1,800 m/min, and for coaters 2,000 m/min. The wire width is 10.5 m.

“One important part of this success was the perfect co-operation on site between the ABB electrification and drives team and the Voith Sulzer team”, Andreas Kohler, project manager, Voith.

Scope of supply
ABB’s Composite Plant solution covered both paper machines and off-machine coaters, the converting plant and three power boilers.

Composite Plant Solutions included
• Electrical engineering
• Project management
• Installation, start-up and training
• Equipment and systems

Start-ups ahead of schedule
• PM 1 started up February 6, 1999
• PM 2 May 2, 1999
• Off-machine coater 1 May 21, 1999
• Off-machine coater 2 August 5, 2001

Contract Partners
Voith, Metso, Foster Wheeler, GAW and Gold East Paper (Jiangsu) Co. Ltd.
**ABB Scope**
- Power distribution
  - Dagang mill
- Process electrification
  - Paper machines 1 & 2
  - Off-machines coaters 1 & 2
  - Power boilers 1, 2 & 3
  - Coating kitchen
- Process Automation System including
  - 63 Advant Operator Stations
  - 3 Quality Control Systems
  - 6 Web Inspection Systems
  - Collaborative Production
  - Management System
- Drive system
  - Paper machines 1 & 2
  - Off-machine coaters 1 & 2
  - Single drives
- Electrical rooms ventilation system
- Electrostatic precipitators
- Simulator
- Services

**Electrical delivery**
- 110 kV GIS switchgear: 9 bays, type ELK
- Network control system MicroScada, type SPIDER
- Large transformers: 19 units, 5...95 MVA
- Distribution transformers: 90 units
- 6 kV switchgear, type MH 12,407 cubicles, total length 360 m
- 400 V MCCs and LCCs, type MNS, total length 1,200 m 4,000 motor starters
- 6 kV motors: 200 units, type AMB, HXR
- 400/690 V standard motors: 800 units
- Single drives: 250 units, type ACS 300, 600
- Cables 1,000 km
- Installation material including cable ladders

**Human resources**
- 40 supervisors and commissioning engineers
- ABB companies from Finland, China, Singapore, Sweden, Germany and USA

**Composite Plant Benefits**
- Single source supplier
- Integrated products and systems
- Professional project management
- Comprehensive services
- Local & global ABB resources
- Local and global ABB resources

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