

**ABB in the Pulp and Paper Industry:
Committed to Energy
Efficiency and Productivity**



**Karl Gustav Ramström
Senior Vice President
Head of Process Automation
Sweden**



Key facts about ABB



- Headquarters: Zurich, Switzerland
 - About 111,000 employees in around 100 countries
 - Orders in 2006: \$28.4 billion
 - Revenues in 2006: \$24.4 billion
 - Listed on Stockholm, Swiss & New York exchanges; traded on virt-x
- A leading power and automation technology company with strong market positions in its core businesses
 - Core business organized into 5 divisions; Power Products, Power Systems, Automation Products, Process Automation, and Robotics



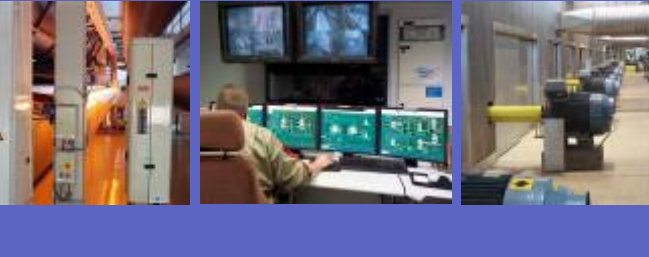
Serving the full range of process industries



- **Pulp & Paper**
- Chemicals & Pharmaceuticals
- Marine
- Metals
- Minerals
- Oil & Gas
- Turbocharging
- Performance Services



ABB pulp and paper industries overview



Market size: Above \$2.0 billion

Key market drivers

- Reduce paper or pulp cost per ton
- Improve quality, energy efficiency, uptime
- Productivity

Key deliverables

- Production Management
- Electrification
- Energy Management
- Open Control Systems
- Drive Solutions
- Pulp Mill Applications
- Quality Control
- Web Imaging
- Engineering and Services

STORAENSO



UPM



SCA



Weyerhaeuser



GP



APP

ASIA PULP & PAPER CO. LTD.

INTERNATIONAL PAPER



BURGO



Norske Skog



ABB solutions for key processes

Power & Electrification



Distributed Control



Instrumentation



Drive Systems



Pulping Controls



Chemical Systems



Production Management



Quality Control



Web Imaging



Energy efficiency across the value chain

- Power
- Protection
- Collaboration

- Energy Management

- Production Management and Logistics

- Instrumentation
- Motors and Drives
- Electrification
- Quality Control

- Measurement & Control
- Robotics

- Process Control and Optimization

- Planning
- Simulation
- Asset Management

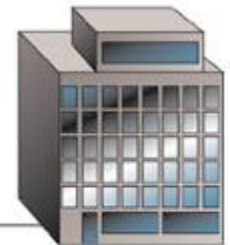
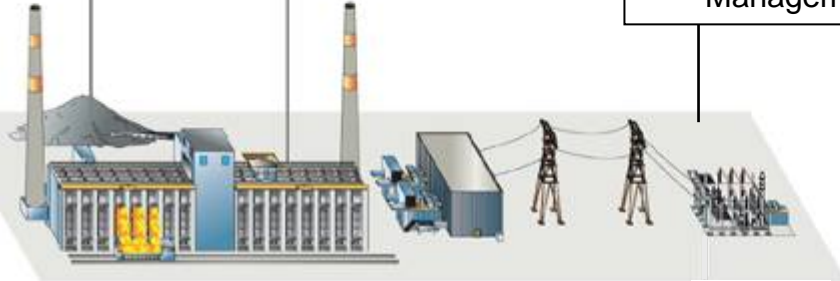


ABB installed base at Stora Enso Skoghall

Sulphate process (fiberline)

- Instruments, pressure, flow, temp
- Motors and inverters
- Transformers, switchgear
- Automation System Advant

Recovery area

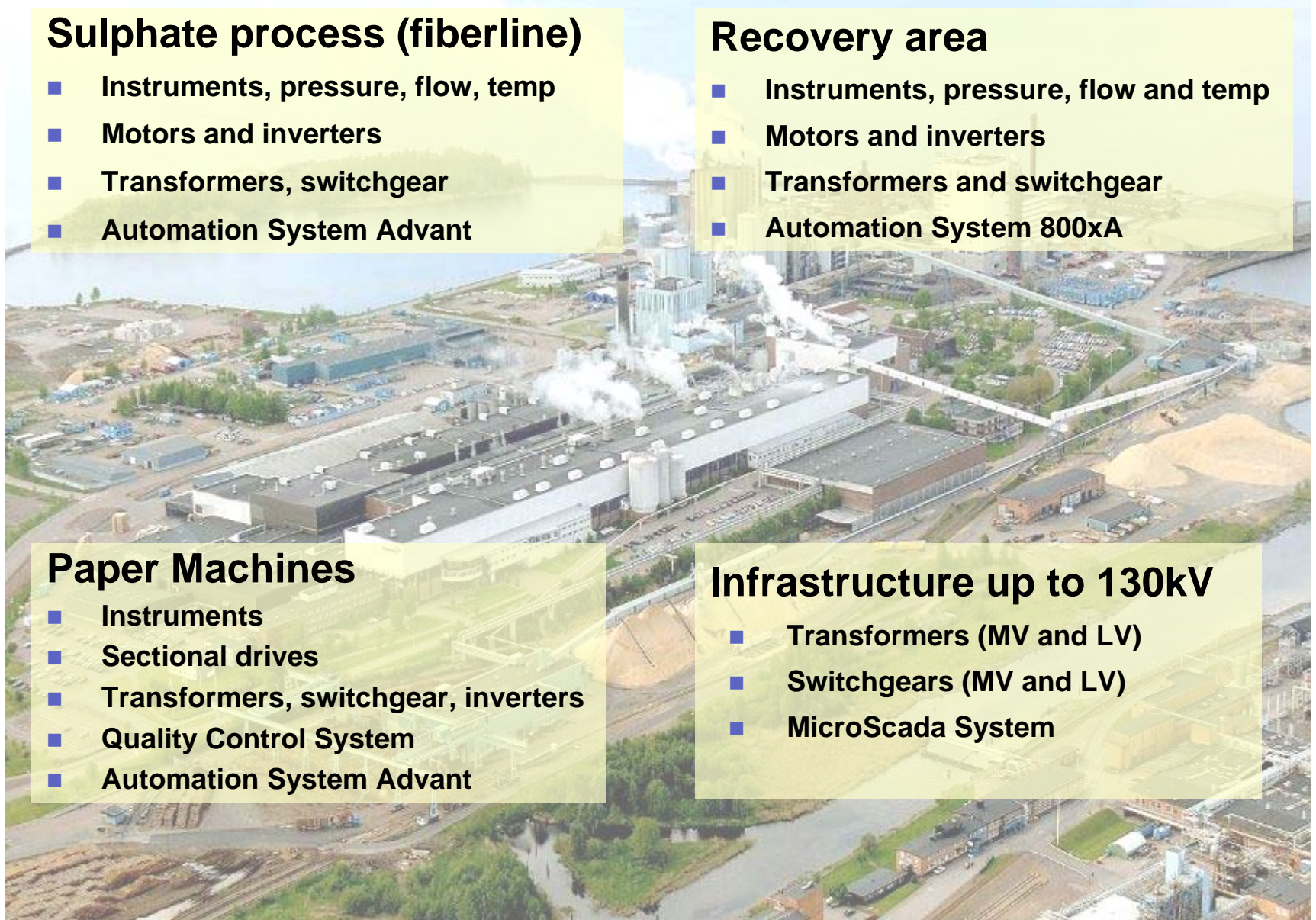
- Instruments, pressure, flow and temp
- Motors and inverters
- Transformers and switchgear
- Automation System 800xA

Paper Machines

- Instruments
- Sectional drives
- Transformers, switchgear, inverters
- Quality Control System
- Automation System Advant

Infrastructure up to 130kV

- Transformers (MV and LV)
- Switchgears (MV and LV)
- MicroScada System





Power and productivity
for a better world™