Automation Services





Main drivers for automation upgrades

- Securing runnability by access of spares parts and support, PLC systems end of life cycle
- New generation HMI operator friendly
- Higher security level for data protection



Automation Services

Scope of services

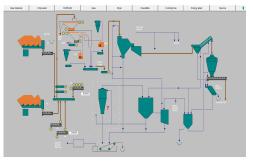
- Design and supply of complete systems
- Complete lines, from wood yard to panel handling, including refiner and press systems
- Including complete process descriptions
- Using latest technology
- Complete plant control system upgrade, from MDF, PB and OSB
 - For all OEM machine supplier, Sunds
 Defibrator, Metso, Siempelkamp, Dieffenbacher
 and Küsters lines
 - HMI
 - PLC
 - MCC

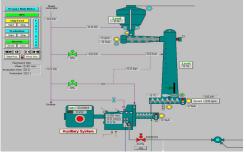


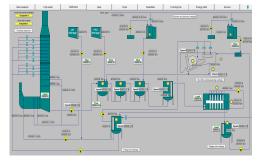


HMI upgrades

- Latest software (e.g Intouch) for better data handling and visibility
- History and production data management
- Improved operator interface
- Modern protocol for data transfer









PLC upgrades

- Replaced with latest model PLC e.g Siemens S7/ 1500
- Update of PLC program
- Faster and more reliable system
- Bigger memory
- Securing runnability by access of spares parts
- Enable remote support





MCC upgrades

- Replaced components in existing cabinets
- Replace DC drives with VFD drives
- Securing runnability by access of spares parts

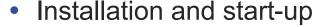






Implementation steps

- Information collection existing system
 - Brand and version of software
 - Communication system, verification of new system vs. old system combability
 - Agree on scope of upgrade
- New design based on data collection
 - New hardware for HMI/ PLC and MCC
 - New program
 - Based on dialogue with customer



- Supervision of installation
- Start-up by experience SUNDS automation team
- Established procedures to secure trouble free start up



