



Areas of trees are used as raw material at pulp and paper mills.

Flexible, Lean Execution used to manage documentation, team coordination and scheduling for pulp and paper mill project

Schneider Electric was a partner in a Greenfield project pulp and paper mill erected in Parana State, Brazil.

The production of pulp for this new plant is 1.100 kiloton of eucalyptus and 400 kiloton of pine and fluff. Additionally, this plant produces 150 MW of Energy.

During this project, Schneider Electric supplied a distributed control system (DCS) for control of the new production plant and integrated field device instruments, and all dedicated PLCs through communication protocols (Profibus, Modbus, and OPC).

Schneider Electric's delivery and Global Engineering Management (GEM) teams completed the project. The GEM team traveled to Brazil and trained local

engineers, using the available project information, including the typical blocks and I/O assignment of the project.

Project description

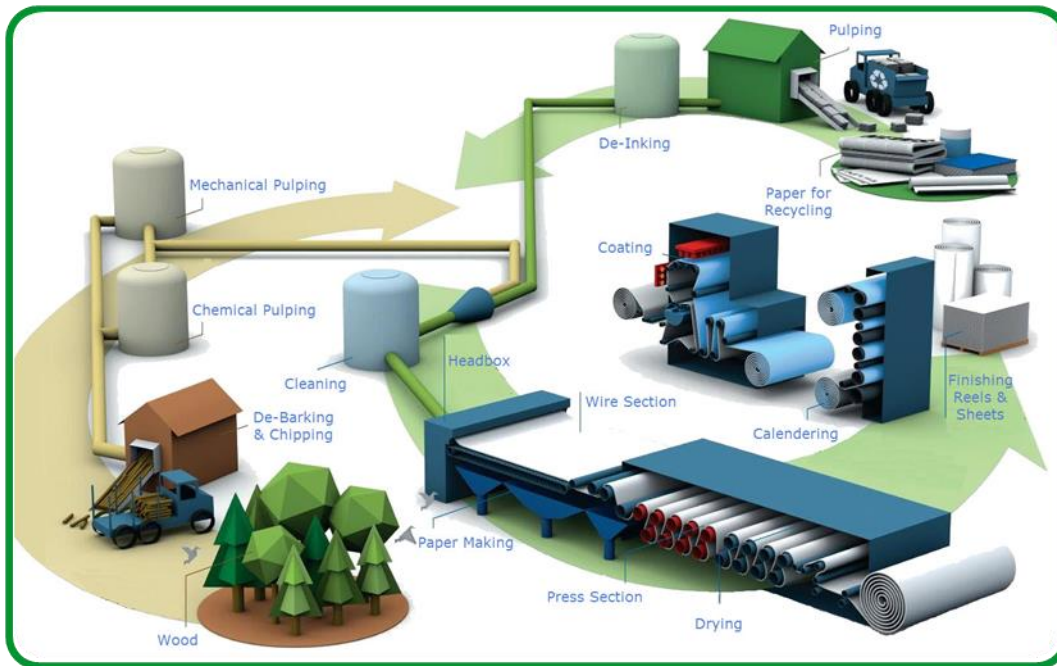
This was a new Foxboro Evo DCS project for all units of the plant, considering a total of 90,590 I/O points (20,280 physical), divided into three units (utilities, fiber line and drying).

The scope also included supply of Operator Training Simulator Support (OTS), Asset Management and video wall.

The service included cabinet design and assembling, configuration, factory acceptance testing (FAT), system network field assembling (including STP cable and fiber optic launching and connection), commissioning and training.



Schneider Electric's Flexible, Lean Execution (FLEX) methodology is used in a Greenfield pulp and paper mill project in Brazil.



Example of papermaking process

There were several challenges associated with this project as it involved a new team (technical hired), poor quality configuration documents (I/O list, logic diagrams), and a tight schedule connecting different engineering, procurement and construction contractors (EPCs).

Flexible, Lean Execution Contribution

The FLEX components used for this project included the reuse of templates, rules, and Engineering Workbench bulk generation.

Engineering Workbench was recommended for this project and helped generate the database for all configurations.

The customer project team considered the following to be the best features of Engineering Workbench, a component of FLEX:

- Companywide configuration standardization
- Fast configuration generation
- Ability to quickly enact mass configuration changes
- Reliable product support
- Support for reuse of rules

Subsequent site services commenced, including cabinets installation and cable launching, and the commissioning of different units as well as training.

Because of FLEX, the company was able to successfully meet an extremely tight schedule despite the new team, poor quality configuration documents and involvement of multiple EPCs.

To learn more about how FLEX reduces the impact of change and time to production, visit: real-time-answers.com/project-execution/resource-center/.



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