Results-Driven Automation

Value-Added Solutions

Quick Return on Investment Achieved by Suzano with ABB Solution

"With the current ABB technology, PM BM7 has become the most modern paper machine within Suzano's mills."

Victor Wuo
Project Manager for
Electrical, Instrumentation
and Automation Systems
Suzano Papel e Celulose

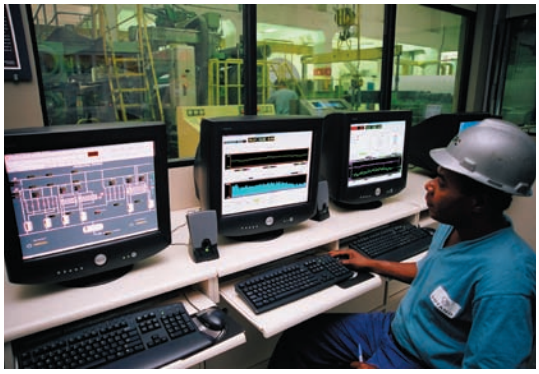
Suzano Papel e Celulose has three pulp and paper operations in the State of Sao Paulo. The Suzano Mill is a modern integrated pulp and paper facility that has four paper machines and one machine used for coating applications. The Suzano operations have a total pulp production capacity of 1.1 million tons per year and total paper production capacity of 820,000 tons per year.

Background

Suzano is a leading pulp and paper producer in Brazil. PM B7 produces printing and writing grades in an integrated mill, and was looking to replace a competitive system on the production line. The mill had already chosen ABB Drives to upgrade existing DC motors at the mill. When the mill looked for an automation upgrade, ABB proposed an Industrial^{IT} solution for Quality Control and Open Control.

The challenge

The mill looked for a supplier that would provide complete engineering, commissioning, start-up and training services, as well as a solution to integrate a complete process automation strategy. They were looking for a supplier that could deliver



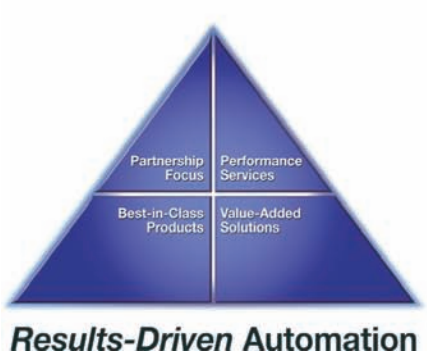
a solution, supported by a local organization. ABB Industrial IT for Pulp & Paper was selected as the automation supplier on the project.

The difference

Suzano chose ABB to upgrade their production line based on Industrial IT technology. They looked for a supplier to integrate their Quality Control, Drives and Open Control technology, as well as a supplier that had local resources to train and support the future automation services at the mill.

The solution

ABB supplied a two scanning frame Quality Control solution, and a Control^{IT} system to support the rest of the production line. The system includes five Operate^{IT} operator interfaces, and 2,500 I/O points monitoring and controlling the process. The solution is completely integrated with the existing ABB drives installation.



Results-Driven Automation

Success Stories

Fast startup

One of the benefits of ABB Industrial IT is the ease of commissioning a new system, from engineering the solution to local training on operations, maintenance and engineering. Most of this training was done on-site with local ABB Engineers. The installation was completed during a very short shut-down period. Startup and tuning goals were reached quickly, resulting in a quick ROI for the mill.

Project success

"The ABB OCS/QCS robustness and reliability allowed us to operate and maintain the systems without the need of a resident engineer, which was close to impossible with the technology we had before this installation on PM BM7," said Walmor Martins, Electrical, Instrumentation and Automation Maintenance Manager.

"The centralization of all machine operation & control in the same operator workplace has made the operator's job much easier and efficient. Integration has really made the difference from the operation standpoint," said Edson Kobayashi, Production Manager.

"With the current ABB technology, PM BM7 has become the most modern paper machine within Suzano's mills," said Victor Wuo, Project Manager for Electrical, Instrumentation and Automation Systems.

"Connectivity and interoperability are critical requirements in our operation. Information must be available in real-time and must be easy to access. The true openness of ABB Industrial IT architecture, based on standards like OPC, provided us the ease we needed for cross platform exchange."

For more information on solving your pulp and paper manufacturing control issues, visit us at: www.abb.com/pulpandpaper.