



Hybrid / General Manufacturing



Aracruz Celulose Pulp Mill

Espirito Santo, Brazil

Goals

- Allow each fiberline to operate independently and provide a unified view into all operations for better management of overall plant productivity

Challenges

- Plant has multiple systems from different vendors, most of which are outdated
- Current plant capacity is limited and needs to be expanded to meet demand

Results

- Plant was expanded to become the largest single pulp production facility in the world, capable of producing more than two million tons of market pulp per year
- Boiler using Fisher Provox DCS with 1000 I/O was migrated to Foxboro I/A in 3 hours and 7 minutes
- Provides a strong avenue for future growth in production capacity
- Expanded overall production capacity and eliminated production bottlenecks



Industry: Pulp and Paper

“We chose to implement Foxboro intelligent remote I/O because of the increased architectural flexibility and lower cost it provides.”

Luiz Renato Chagas Figueiredo
Automation Manager

Boise Cascade Elgin, Oregon

Goals

- Deliver plant automation for integrated systems including lumber sorting, presses, boilers and dryers.
- Enable smooth upgrades and updates as the plant and its equipment expand over time.
- Fulfill federal and state environmental reporting requirements.

Challenges

- With plant expansions, legacy systems had to be integrated with solution upgrades and updates.
- Reporting requirements mandate that Boise Cascade retain 90% of their historized data for quarterly and semi-annual reports as well as audits.

Results

- Updates and upgrades to the existing systems are seamless and efficient.
- Centralized data acquisition and storage has eliminated the need for hard paper files to meet the extensive back up data retention requirements.
- The solution's trending and tuning capabilities have enabled Boise Cascade to realize a 10% improvement in fuel consumption of the hog fuel boilers.



Industry: Pulp and Paper

“Our confidence in the integrity of the data we get from Wonderware InTouch helps in the success of our future business decisions. We feel that the supportability of new versions is unmatched when compared to other products.”

Scott Noble

Boise Cascade Computer Control Specialist/ Data Manager

Cascades Tissue Group

Eau Claire, Wisconsin

Goals

- Reduce standard deviation of basis weight and moisture
- Automate controls and save time, maintain spec and ensure product consistency
- Increase uptime, greater overall capacity utilization and lower maintenance costs

Challenges

- Update outdated controls at the Eau Claire mill and continue to strengthen its position in the increasingly competitive global paper industry

Results

- Improved product quality reduced breakage, resulting in improved uptime, greater overall capacity utilization, and lower maintenance costs
- The multivariable expert adaptive control brings greater efficiency in energy utilization, improves waste and discharge handling.
- New system prevents to the corrosive environment at the mill floor



Industry: Pulp and Paper

“The level of engineering startup, system commissioning, and site support from the Schneider Electric Operations Management application engineers, service engineers, and technical team was outstanding.”

Mike Armstrong
Electrical and Instrumentation Manager

Holcim (Süddeutschland) GmbH Germany

Goals

- Integration of the visualization-points;
- Monitoring and control via a centralized control station;
- High availability of the entire system;
- Standardization

Challenges

- No integration of the existing visualization applications;
- No central monitoring;
- High maintenance and administration costs.

Results

- Integrated data points;
- Uniform end even processes;
- Uninterrupted data collection;
- Standardization;
- High system availability;
- Constantly high and well-balanced product quality
- Increased security and environmental protection



Industry: Process Engineering

“A clear increase regarding the integration and implementation- efficiency could be noticed right from the start.”

Egon Schlaich
Project Manager, Holcim

Meridionale Impianti S.P.A.

Italy

Goals

- Ensure excellent quality in the production of photovoltaic panels
- Real-time action on deviations and negative trends in production

Challenges

- Constant and accurate control of environmental parameters in photovoltaic panel production areas
- Traceability across the manufacturing process
- Integration of plant automation systems with enterprise management system (ERP)
- Diversified access to manufacturing information at different levels of the organization

Results

- Monitoring of real plant performance to eliminate possible inefficiencies
- Reduction of manufacturing waste



Industry: Discrete Manufacturing

“Through the extensive monitoring of manufacturing stages, we have significantly reduced wastes that have a negative impact on efficiency and production costs.”

Giovanni Raffa,
Business Development Manager, Meridionale Impianti S.p.A.

Weldwood of Canada

Williams Lake, Canada

Goals

- Enhance production efficiency with new computerized maintenance management system

Challenges

- Update outdated management system did not integrate the maintenance functions with plant purchasing systems, which required larger inventories of spares to be on hand

Results

- Diverse operations in both type and geography are now tied together
- Enhanced productivity through more efficient maintenance activities, helping to produce nearly 230 million square feet of plywood each year
- Achieved ISO 14001 certification at Williams Lake



Industry: Pulp and Paper

“Many spare parts are no longer inventoried, but are simply ordered when a repair is scheduled and its work order is cut — which is a new capability that we gained, since the new system combines both work scheduling and parts purchasing.”

Hank Dickey
Maintenance Superintendent



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