

Leading Colombian Pulp Mill Debottlenecks Operations with SIM AGRO INC's Clean PulpTechnology



SOLUTION AT A GLANCE

Sim Agro Inc's proprietary Clean PulpTechnology solution, comprising wet washing and fiber preparation systems, helps eliminate over 90% of the impurities and soluble chemicals.

Why work with us

- Global leaders in clean pulp and clean energy technologies
- 200+ projects across 15 countries



"For nearly 30 years, we've been providing clean technologies to paper and pulp mills of all sizes around the world.

This was the first time that we designed a wet washing system for a 750 TPD plant while maintaining the smallest foot print possible."

Karthik Raghavan

President, Sim Agro Inc

CHALLENGES

Client's pulp mill operations experienced bottlenecks due to the high ash content in the pulp coming from silica or dirt from the fibers. Their legacy washing system did not perform well, especially during winter. They wanted to reduce the ash content from 4% to less than 1%.

SOLUTIONS

We designed a wet washing system, as a follow up to the client's wet washing system, and incorporated it into their existing process flow. Our team also took over the design of the layout, and reconfigured it to make it cost-effective.

BENEFITS

Complete debottlenecking

Evaporators ran fluidly, in turn ensuring the pulp machines ran smoothly without any interruptions or downtime.

Ash content down to below 1%

Prevented the pulp tanks that serviced the paper machines from filling up.

Rapid turnaround

Equipment was designed, developed and implemented within 10 months.

Clean Pulp Technology

Sim Agro Inc's Clean Pulp Technology Platform is specifically designed for non-wood pulping systems. Our proprietary technology addresses the unique needs of our clients - whether it's removing impurities from the fiber or effectively pulping feedstock.

The platform offers solutions to pulp agricultural residues like sugarcane bagasse, wheat straw, industrial hemp, and bamboo and turn them into paper products like printing writing paper, container board, sack kraft, molded product, tissue, towels and any number of sustainable products. It significantly enhances the the quality of pulp that determines the quality of the final products, while reducing costs.

Our Clean Pulp Technology is underpinned by our Clean Energy Platform which uses renewable energy of different forms - biomass, solar and wind - to minimize the carbon footprint of pulping operations. While using agricultural residues as feedstock is typically carbon neutral or even carbon negative, adding renewable energies to the mix makes it even more sustainable.

In addition, we provide Zero Liquid discharge systems that treat and reuse waste water completely. Finally, we offer ways to capture CO₂ in our system that is cost effective and further helps reduce Green House gases. Our continuous innovation in green energy and carbon capture is helping global paper and pulp manufacturers turn their long term sustainability goals into reality.