

Eco-friendly Food Service Products Producer Develops Roadmap for Enhancing Pulp Mill Capacity and Quality



SOLUTION AT A GLANCE

Sim Agro Inc's proprietary Clean Pulp Technology solutions lower OpEx and enhance quality and operational flexibility. They help pulp and paper manufacturers debottleneck processes and maximize returns while meeting their sustainability goals.

Why work with us

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



"The client is a classic case of a business that uses good equipment but relies on a process and technology that is hard to scale or produces low quality pulp.

SIM AGRO INC's Clean Pulp Technology addresses these issues efficiently and cost effectively."

Karthik Raghavan

President, Sim Agro Inc

CHALLENGES

The client hit a dead end in its attempts to improve its pulp mill capacity and pulp quality. Their pulp mill of 30 TPD capacity was producing only 3-5 TPD. What's more, the pulp did not meet quality standards. The production manager finally reached out to us for help.

SOLUTION

We worked closely with the client to identify the gaps. Our team of experts then put together a study using computer simulation - simulating the client's existing system and incorporating SIM AGRO INC solutions to showcase potential avenues available to the client. The study highlighted various ways in which the client could improve their system by repurposing and using our readily available screw press in their continuous digester.

We are currently in the process of providing the client with a capital proposal

BENEFITS

A comprehensive roadmap

Client received a holistic step-by-step roadmap to improve capacity and quality.

Computer simulation driven study

Computer simulation helped the client accurately and cost-effectively assess various options, instead of relying on a costly and time consuming trial-and-error approach.

Rapid turnaround

The study was completed in just three 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.