Success Case

Pulp & Paper Mill

SEMEQ
AI-Driven Factory Reliability

Increased production line output by 9% and reduced emergency repair spend by 85%.

Semeq Predictive Maintenance Monitoring

North Carolina

A large pulp & paper mill relied on traditional preventive maintenance for critical assets such as fans, drives, and motors. Early-stage degradation often went undetected, causing unexpected failures and production losses. To improve reliability without new capital spending, the mill partnered with SEMEQ to adopt a data-driven maintenance strategy.

Problem

Preventive maintenance alone did not provide the visibility needed to detect early-stage bearing degradation. Failures in critical rotating assets continued to occur without warning, increasing emergency repair costs and keeping uptime stuck at 88%. With limited condition data, maintenance remained reactive and difficult to plan.

Solution

After partnering with SEMEQ, the mill adopted a predictive analytics program that included continuous vibration and electrical monitoring of critical rotating assets. AI-driven diagnostics revealed early signs of imbalance, bearing wear, and electrical anomalies, allowing repairs to be planned during scheduled outages. Weekly reliability reviews improved prioritization and helped restore operational stability.

Results

Uptime 88% → 97% Emergency repairs –85% ROI in 7 months

"We turned maintenance into a measurable source of productivity."
— Reliability Director, Pulp and Paper Mill