

Critical Machine Health Monitoring with Zedi IIoT Platform Improves Visibility and Security

RESULTS

- Authorized user visibility and data access anytime, anywhere
- Security strengthened while internal IT regained focus on core
- Easy to scale; unlimited users, multi-locations & diverse assets
- Increased sustainability for future growth
- Decreased downtime during limited operational window
- Alarm management ensures machine health to attain goals



APPLICATION

Zedi Access™
Zedi Go™ mobile app
Zedi Alarm Management
AMS 6500 Prediction System
Emerson Professional Services

CUSTOMER

The Tereos cooperative group, a union of 11,200 cooperative members, has a recognized know-how in the processing of beet, sugarcane, alfalfa and cereals. Through 43 industrial sites, a presence in 15 countries and the commitment of its 15,800 employees, Tereos supports its customers close to their markets with a broad and complementary range of products. In 2022/23, the Group posted revenues of €6.6 billion.

CHALLENGE

Tereos has 8 facilities in France and on La Réunion Island that produce sweetening solutions, including crystallized sugar, beet sugar, cane sugar, and liquid sugar only 150 days/year on average and it is critical for their activity to run a perfect execution during that period. Having visibility using a SCADA system on all critical rotating equipment is a key operational strategy.

Tereos was running outdated Windows Operating Systems and legacy on-premise SCADA Software leading to serious security concerns, unplanned operational expenses and inefficient internal IT and operations resource usage.

“Meeting our objectives and needs while preparing for our growth was a necessary requirement of the system we needed. Today, our staff is well aware with clear visibility and the right analytics needed to keep our critical, extremely time sensitive product production flowing.”

- David Levert
Tereos Digital Project Manager

SOLUTION

Emerson AMS 6500 Prediction System was strategically installed on equipment to monitor assets such as turbo generators, oil pumps, feed-water pumps, motor fans and volumetric pumps.

These AMS Monitors are specifically designed for deep vibration diagnostic monitoring and were installed on 90 assets across 8 geographically dispersed, remote locations in France and on La Réunion Island.

Once these were in place, they were designated to communicate with the Zedi IIoT platform, which is complete with cloud-native Software-as-a-Service that enables the data to be visualized with strong analytics to help determine actions. Once the asset data enters the Zedi platform it is then available to authorized end users anytime, anywhere.

Because the Zedi IIoT platform and SaaS suite are all cloud-native there is no longer any need for an internal SCADA system, or internal data management processing and maintenance requirements, All updates to the SaaS, security and the platform itself all happen on the Zedi end; without any need for assistance from on-site Tereos staff.

The platform also uniquely offers easy scalability with unlimited user for geographically diverse assets and customized individual locations as well as full 24/7 support and complete training for all staff and new users.

With these changes Tereos is now set to far exceed their lofty targets and is well positioned for a sustainable future of quickly, and easily expediting continued strong growth.



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