



BATTERY HEALTH MONITORING SYSTEM

LEADACID 12V

DAIRY INDUSTRY

INTRODUCTION

Sosaley Technologies Private Limited specializes in developing indigenous Battery Health Monitoring systems for lithium-ion, lead-acid, and Ni-cad batteries. Sosaley's BHMS helps its customers by improving their business efficiency, reducing operating costs, and optimizing battery performance. This results in increasing their business productivity. Our R&D has been meticulously working for more than a decade to provide a product solution. We are ready to embrace any new challenges in the field of BHMS.

INTRODUCTION - CLIENT

One of the leading dairy product manufacturer who cater to both cooking and consumption, like milk, curd, ice creams, dairy whitener, skimmed milk powder, ghee, paneer and lots more. Their brands have become a popular choice for households over one million across the country. They also have a healthy global presence with dairy ingredients exported to 38 countries around the world – primarily to America, Middle East and South Asian markets.



PROBLEM STATEMENT

01

BATTERY HEALTH UNCERTAINTY:

Client faced challenges in monitoring the health of their industrial batteries.

02

RISK OF INTERRUPTION:

The possibility of a single dead battery disrupting the entire battery bank posed a significant operational risk and production loss to an extent.

03

INADEQUATE MONITORING TOOLS:

Existing monitoring systems lacked the capability to track battery health effectively.

ROOT CAUSE

1

LIMITED MONITORING CAPABILITIES:

The absence of a comprehensive monitoring system led to invisibility about battery health.

2

DEPENDENCY ON MANUAL CHECKS:

Manual checks were insufficient to predict and prevent potential battery failures.

3

OPERATIONAL DISRUPTIONS:

The risk of battery failure causing interruptions in critical processes was a significant concern.



SOLUTION

To address these challenges, Sosaley Technologies installed the 'Battery Health Monitoring System' for leadacid [12V] battery banks.

- **MONITORING PARAMETERS IN DEPTH**

Sosaleys' "Battery Health Monitoring System": Keep track of critical parameters such as current, voltage, temperature, and more with ease.

- **ALERT SYSTEM**

Setting up customized threshold alerts ensures that any critical battery levels are detected and reported promptly.

- **PREDICTIVE ANALYTICS**

The cutting-edge predictive analytics system anticipates possible battery failures, leading to proactive maintenance.

- **EFFICIENT BATTERY REPLACEMENT**

The system's insights played a crucial role in replacing defective batteries promptly, preventing any negative impact on the rest of the battery bank.

INSTALLATION





OUTCOME

Benefits of the "Battery Health Monitoring System" Implementation

IMPROVED PRODUCTION CONTINUITY

Real-time monitoring of battery health ensured uninterrupted operations, preventing unexpected downtime in the dairy production process.

ENHANCED PRODUCT QUALITY ASSURANCE

Stable and well-monitored batteries contributed to maintaining consistent product quality standards, meeting customer expectations.

COST SAVINGS ON MAINTENANCE

Proactive monitoring reduced unforeseen battery issues, leading to cost savings upto 20% annually on emergency repairs and replacements.

OPTIMIZED RESOURCE UTILIZATION

Efficient battery management allowed the dairy manufacturing company to allocate resources more effectively, streamlining operations.

COMPLIANCE AND SAFETY ASSURANCE

Comprehensive monitoring ensured compliance with safety regulations and mitigated potential risks associated with battery faults.