



BATTERY HEALTH MONITORING SYSTEM

LEADACID 12V

DATA CENTER

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 at par product solution. We are ready to embrace any new challenges in the field of BHMS.

INTRODUCTION - CLIENT

The company has a large data center to maintain and manage the customer's data. As a trusted partner for critical networks, the company is committed to innovation and technology leadership across fixed and cloud networks. Adhering to the highest standards of integrity and security, it helps to build the capabilities needed for a more productive, sustainable and inclusive world.



PROBLEM STATEMENT

1

RISK OF UNPLANNED SHUTDOWNS:

A leadacid, datacenter i India faced the threat of unplanned shutdowns due to potential battery failures.

2

LACK OF COMPREHENSIVE MONITORING:

Inadequate monitoring tools led to uncertainty about the health of industrial batteries.

3

VULNERABILITY TO SINGLE BATTERY FAILURES:

The risk of a single faulty battery affecting the entire battery bank posed a significant operational risk and loss.

ROOT CAUSE

1

INSUFFICIENT MONITORING CAPABILITY:

The absence of a robust monitoring system made it challenging to assess battery health accurately.

2

DEPENDENCY ON MANUAL CHECKS:

Relying on manual checks was not sufficient to predict and prevent potential battery failures.

3

OPERATIONAL VULNERABILITY:

The risk of battery failures causing disruptions in critical data center operations was a major concern.



SOLUTION

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

- **COMPREHENSIVE PARAMETER MONITORING**

Our 'Battery Health Monitoring System' offered real-time monitoring of crucial parameters like current, voltage, temperature, and more.

- **THRESHOLD ALERT SYSTEM**

Customized threshold alerts were configured to notify promptly when any battery reached critical levels.

- **PREDICTIVE ANALYTICS**

Utilizing advanced predictive analytics, the system forecasted potential battery failures, enabling proactive maintenance.

- **EFFICIENT BATTERY REPLACEMENT STRATEGY**

Insights from the system facilitated timely replacement of faulty batteries, preventing cascading effects on the entire battery bank.

INSTALLATION





OUTCOME

The implementation of the 'Battery Health Monitoring System' resulted in numerous advantages.

