



# BATTERY HEALTH MONITORING SYSTEM

## LEADACID 2V

# BATTERY MANUFACTURER

## 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

A leading manufacturer of lead-acid batteries for both the industrial and automotive sectors. It has been the preferred vendor to many major telecom operators, telecom equipment manufacturers, UPS sector (OEM & Replacement), Indian Railways, and to Power, Oil & Gas among other industry segments. The company offers Li-ion cells, battery packs, and charging solutions for Light Electric Vehicles and the telecom industry.



## PROBLEM STATEMENT

- 1 INADEQUATE MONITORING:**  
Challenges in effectively monitoring the vital parameters of their lead-acid batteries, leaving them vulnerable to unpredictable failures.
- 2 DOWNTIME CONCERNS:**  
Frequent downtimes due to unanticipated battery failures resulted in financial losses and compromised service reliability for their clients.
- 3 MAINTENANCE COMPLEXITY:**  
The lack of real-time insights made it difficult to prioritize maintenance efforts, often leading to inefficient allocation of resources.
- 4 BATTERY EROSION:**  
Unreliable batteries eroded customer confidence, jeopardizing long-term business relationships and tarnishing the brand image.

## ROOT CAUSE

### LIMITED VISIBILITY

Lack of real-time visibility into their batteries' health, making it challenging to anticipate issues before they escalated.

01

### DATA DISCREPANCIES

Inaccurate data and manual monitoring processes led to discrepancies, hindering effective decision-making.

02

### RESOURCE CONSTRAINTS

Limited resources were spread thin across multiple sites, making it difficult to conduct comprehensive manual inspections.

03

### LACK OF PROACTIVE MEASURES

It's always a reactive approach before implementing a proactive monitoring system, where they would respond to failures instead of preventing them.

04

## SOLUTION

To address these challenges, Sosaley Technologies installed the 'Battery Health Monitoring System'.

- **COMPREHENSIVE MONITORING**

Sosaley's 'Battery Health Monitoring System' was seamlessly integrated, offering real-time monitoring of current, voltage, temperature, and other vital parameters.

- **PROACTIVE ALERTS**

Smart threshold algorithms were implemented, ensuring instant alerts whenever parameters approached critical levels, allowing for swift, preemptive action.

- **PREDICTIVE ANALYTICS**

Advanced predictive analytics empowered to anticipate maintenance needs, prevent downtime and maximize battery life.

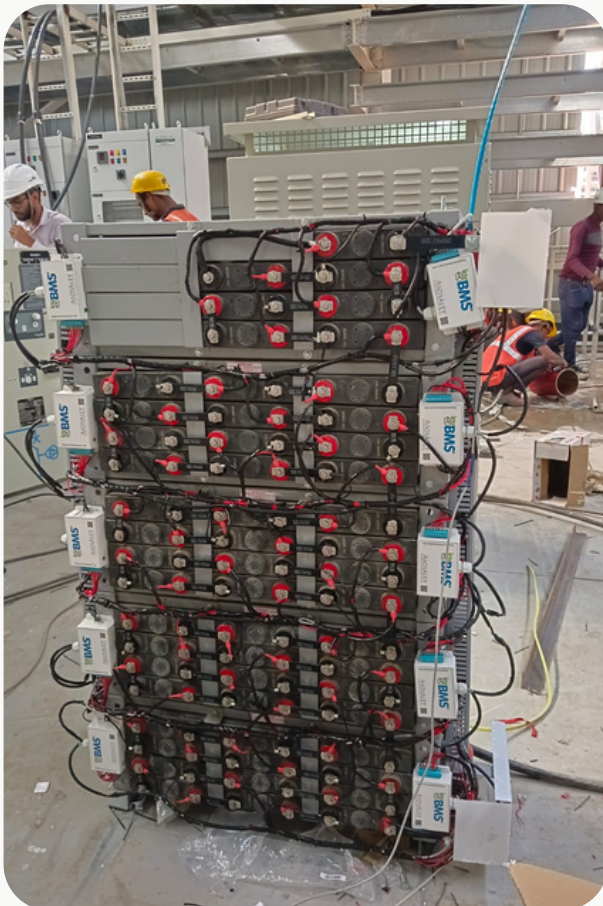
- **USER-FRIENDLY INTERFACE**

The intuitive interface provided actionable insights, enabling teams to make data-driven decisions effortlessly.

- **SCALABILITY**

The system was designed for scalability, accommodating the growth of operations without compromising efficiency.

## INSTALLATION







# OUTCOME

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

