



BATTERY HEALTH MONITORING SYSTEM

LEADACID 12V

HOTEL

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

Dedicated to fulfilling a vision of spreading the light and warmth of hospitality, this prestigious 5-star hotel is a prominent player in India's luxury hospitality sector. Known for offering world-class amenities and ensuring an uninterrupted experience for its guests, it has welcomed billions of visitors over its more than 100-year history. With a reputation for innovation, integrity, and excellence, it continues to set benchmarks in hospitality, delivering unrivaled service and exceptional experiences.

PROBLEM STATEMENT



Predicting Battery Failures: The hotel had no effective way to predict battery failure in advance, leading to unexpected downtime.



High Cost on Battery Replacements: Batteries often replaced on a schedule, leading to unnecessary replacements and inflated maintenance costs.

ROOT CAUSE

1

Lack of Real-time Monitoring: Without continuous monitoring, the hotel couldn't detect early signs of battery degradation.

2

Over-dependence on Time-based Replacements: Batteries were being replaced on a time-based schedule rather than their actual condition, leading to higher costs.

3

No Predictive Failure Alerts: The existing system failed to provide alerts about potential failures, making it difficult to take preventive action.

SOLUTION

Real-time Battery Monitoring: The BHMS continuously monitored key battery parameters such as voltage, current, and temperature, providing real-time insights into battery health.

Predictive Analytics for Early Failure Detection: Advanced algorithms within the BHMS analyzed battery performance data, offering early warnings about potential failures before they occurred.

Custom Alerts for Critical Parameters: The system was configured to send alerts when any parameter exceeded safe thresholds, allowing maintenance teams to take swift action.

Data-driven Battery Replacement Strategy: With real-time data, the hotel could now replace batteries based on actual wear and tear rather than a fixed schedule, reducing unnecessary costs.



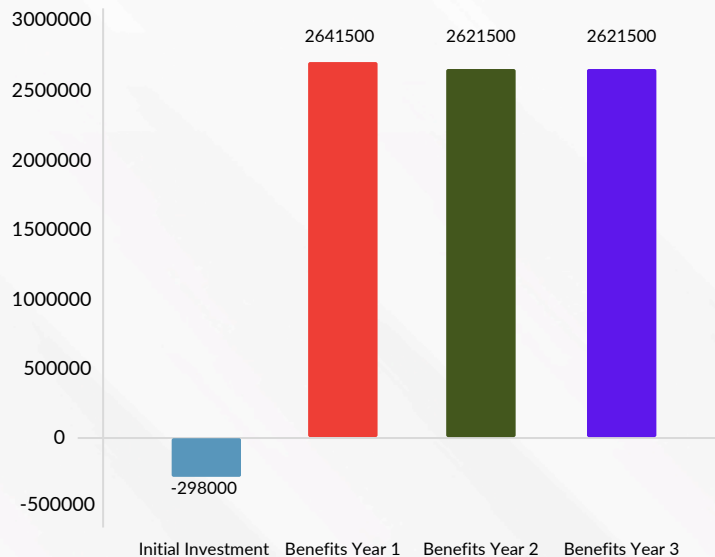
OUTCOME

- 1** **Early Detection of Battery Failures:** The BHMS allowed the hotel to predict and prevent battery failures, avoiding unexpected power interruptions.
- 2** **Significant Cost Savings:** By replacing batteries only when necessary, the hotel drastically reduced its battery replacement costs, optimizing overall maintenance expenses.
- 3** **Increased Operational Reliability:** The proactive alert system ensured the hotel could address any battery issues before they affected critical operations, ensuring a seamless guest experience.
- 4** **Improved Battery Lifespan:** With better monitoring and maintenance, the lifespan of the hotel's batteries was extended, further lowering costs.
- 5** **Peace of Mind:** The hotel management gained confidence in their power backup systems, knowing they had a reliable solution to prevent battery-related failures.

TCO BENEFITS

- **Lower Maintenance Costs:** 15-20% reduction in maintenance expenses
- **Reduced Downtime:** Up to 50% reduction in unexpected outages
- **Extended Battery Life** 20-30% increase in battery lifespan
- **Energy Savings** 10-15% reduction in energy consumption
- **Improved Safety:** BHMS can identify potential hazards before they escalate

TCO OF OUR BHMS



** Representative TCO of our BHMS for a large hospital*