

India Battery Monitoring System Market By Component (Hardware and Software), By Type (Wired Battery Monitoring System and Wireless Battery Monitoring System), By Battery Type (Lithium-Ion Based Battery, Lead-Acid Battery and Others), By End-User (IT & Telecommunications, Energy, Automotive and Others), By Region, Competition Forecast & Opportunities, 2019-2029F

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Abstracts

India Battery Monitoring System market is anticipated to grow at a robust CAGR in the forecast period.

Battery monitoring systems are devices that interface directly with lead-acid and nickel-cadmium battery systems. They are used for collecting and transmitting battery performance data until battery life is exhausted. It also analyzes and monitors battery parameters 24/7, providing valuable data every second and generating reports to help prevent battery degradation and unplanned power outages.

Each battery is fitted with a monitoring sensor. Sensors measure the charging and discharging currents of individual battery cells. This data is sent to the surveillance system controller. Data is stored in the monitoring system controller and trended using battery monitoring software. The software converts the data into readable performance data. The controller alerts the user with an alarm alert via email and/or mobile SMS. The software allow users to access battery data quickly and easily for trend analysis, which is viewable on a PC. Identifying problems, performing predictive analytics, and generating simple, clear reports is easy with the help of battery monitoring software.

Rise in Demand for Battery Monitoring Systems is Fueling the Market Growth

Battery monitoring systems have become essential for every data center. Keeping data centers running is critical, and even a temporary outage can result in significant financial losses that might damage a company's reputation. More and more data centers are realizing that the risk of power outages can be mitigated by installing battery monitoring systems. Hence, there is an increasing demand for battery monitoring in data centers to keep the business running and in a safer place.

The purpose of a real-time car battery monitoring system is to prevent discharging a car battery beyond the point at which the car can be restarted. This is a common problem that can leave people stuck and very uncomfortable. Also, discharging the battery will significantly shorten the life of the car battery. A real-time battery monitoring system (BMS) can monitor car battery and disconnect it from your car before it completely discharges. BMS prevents the user from draining the car's battery to the point where the engine cannot be started. After the BMS is activated, an indicator light helps users determine if the system is active. An override switch allows the user to turn his BMS on and off. This option allows one to access their car's battery immediately after enabling BMS.

Increasing adoption of electric vehicles is a major factor increasing the demand of the battery monitoring system market. The main factors that have led to the development of electric vehicles are the depletion of fossil fuels, increasing vehicle pollution. Additionally, the need for electric vehicles is driving up the cost of fuel used in internal combustion engines (ICs). Batteries play an important role when it comes to powering electric vehicles. High energy density, low emission rate, and long life are various advantages of batteries used as power sources for electric vehicles.

Market Segmentation

India Battery Monitoring System market is segmented into Component, Type, Battery Type, End-Users. Based on Component, the market is bifurcated into Hardware and Software. Based on Type, the market is bifurcated into Wired Battery Monitoring System and Wireless Battery Monitoring System. Based on Battery Type, the market is further bifurcated into Lithium-Ion Based Battery, Lead-Acid Battery, and Others. Based on End User, the market is further bifurcated into IT & Telecommunications, Energy, Automotive and Others.

Market player

Major market players in the India Battery Monitoring System market are Mitsubishi Electric Corporation, Fuji Electric Co., Ltd., Toshiba Corporation, Infineon Technologies AG, ON Semiconductor Corporation, STMicroelectronics International N.V., Texas Instruments Incorporated., Renesas Electronics Corporation, Vishay Intertechnology, Inc., NXP Semiconductors N.V.

Report Scope:

In this report, India Battery Monitoring System Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

India Battery Monitoring System Market, By Component:

Hardware

Software

India Battery Monitoring System Market, By Type:

Wired Battery Monitoring System

Wireless Battery Monitoring System

India Battery Monitoring System Market, By Battery Type:

Lithium-Ion Based Battery

Lead-Acid Battery

Others

India Battery Monitoring System Market, By End-User Type:

IT & Telecommunications

Energy

Automotive

Others

India Battery Monitoring System Market, By Region:

North India

South India

West India

East India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the India Battery Monitoring System market.

Available Customizations:

India Battery Monitoring System market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players.

Contents

1. PRODUCT OVERVIEW

2. RESEARCH METHODOLOGY

3. EXECUTIVE SUMMARY

4. IMPACT OF COVID-19 ON INDIA BATTERY MONITORING SYSTEM MARKET

5. VOICE OF CUSTOMERS

6. INDIA BATTERY MONITORING SYSTEM MARKET OUTLOOK

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Component (Hardware and Software)

6.2.2. By Type (Wired Battery Monitoring System and Wireless Battery Monitoring System)

6.2.3. By Battery Type (Lithium-Ion Based Battery, Lead-Acid Battery and Others)

6.2.4. By End-User (IT & Telecommunications, Energy, Automotive and Others)

6.2.5. By Region

6.3. By Company

6.4. Market Map

7. SOUTH INDIA BATTERY MONITORING SYSTEM MARKET OUTLOOK

7.1. Market Size & Forecast

7.1.1. By Value

7.2. Market Share & Forecast

7.2.1. By Component

7.2.2. By Type

7.2.3. By Battery Type

7.2.4. By End-User

8. WEST INDIA BATTERY MONITORING SYSTEM MARKET OUTLOOK

8.1. Market Size & Forecast

8.1.1. By Value

8.2. Market Share & Forecast

8.2.1. By Component

8.2.2. By Type

8.2.3. By Battery Type

8.2.4. By End-User

9. NORTH INDIA PROVINCE BATTERY MONITORING SYSTEM MARKET OUTLOOK

9.1. Market Size & Forecast

9.1.1. By Value

9.2. Market Share & Forecast

9.2.1. By Component

9.2.2. By Type

9.2.3. By Battery Type

9.2.4. By End-User

10. EAST INDIA BATTERY MONITORING SYSTEM MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Component

10.2.2. By Type

10.2.3. By Battery Type

10.2.4. By End-User

11. MARKET DYNAMICS

11.1. Drivers

11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

13. COMPANY PROFILES

13.1. Mitsubishi Electric Corporation

- 13.1.1. Business Overview
- 13.1.2. Key Revenue and Financials (If available)
- 13.1.3. Recent Developments
- 13.1.4. Key Personnel
- 13.1.5. Key Product/Services

13.2. Fuji Electric Co., Ltd.

- 13.2.1. Business Overview
- 13.2.2. Key Revenue and Financials (If available)
- 13.2.3. Recent Developments
- 13.2.4. Key Personnel
- 13.2.5. Key Product/Services

13.3. Toshiba Corporation

- 13.3.1. Business Overview
- 13.3.2. Key Revenue and Financials (If available)
- 13.3.3. Recent Developments
- 13.3.4. Key Personnel
- 13.3.5. Key Product/Services

13.4. Infineon Technologies AG

- 13.4.1. Business Overview
- 13.4.2. Key Revenue and Financials (If available)
- 13.4.3. Recent Developments
- 13.4.4. Key Personnel
- 13.4.5. Key Product/Services

13.5. ON Semiconductor Corporation

- 13.5.1. Business Overview
- 13.5.2. Key Revenue and Financials (If available)
- 13.5.3. Recent Developments
- 13.5.4. Key Personnel
- 13.5.5. Key Product/Services

13.6. STMicroelectronics International N.V.

- 13.6.1. Business Overview
- 13.6.2. Key Revenue and Financials (If available)
- 13.6.3. Recent Developments
- 13.6.4. Key Personnel

13.6.5. Key Product/Services

13.7. Texas Instruments Incorporated.

13.7.1. Business Overview

13.7.2. Key Revenue and Financials (If available)

13.7.3. Recent Developments

13.7.4. Key Personnel

13.7.5. Key Product/Services

13.8. Renesas Electronics Corporation

13.8.1. Business Overview

13.8.2. Key Revenue and Financials (If available)

13.8.3. Recent Developments

13.8.4. Key Personnel

13.8.5. Key Product/Services

13.9. Vishay Intertechnology, Inc.

13.9.1. Business Overview

13.9.2. Key Revenue and Financials (If available)

13.9.3. Recent Developments

13.9.4. Key Personnel

13.9.5. Key Product/Services

13.10. NXP Semiconductors N.V.

13.10.1. Business Overview

13.10.2. Key Revenue and Financials (If available)

13.10.3. Recent Developments

13.10.4. Key Personnel

13.10.5. Key Product/Services

14. STRATEGIC RECOMMENDATIONS

15. ABOUT US & DISCLAIMER

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