

# **Industrial Lithium-ion Batteries Market – Global Industry Size, Share, Trends, Opportunity, and Forecast Segmented By Type (Primary, Rechargeable) and by End-Use Industry (Automotive, Consumer Electronics, Power Tools, Industrial, Medical, Others), By Region & Competition, 2021-2031F**

<https://marketpublishers.com/r/I97C8D40375AEN.html>

Date: May 2026

Pages: 185

Price: US\$ 4,500.00 (Single User License)

ID: I97C8D40375AEN

## **Abstracts**

The Global Industrial Lithium-ion Batteries Market is projected to expand significantly, from USD 25.01 Billion in 2025 to USD 59.81 Billion by 2031, achieving a Compound Annual Growth Rate of 15.64%. These batteries are high-performance rechargeable energy storage solutions specifically designed for demanding industrial applications such as material handling equipment, automated guided vehicles, and stationary power systems. This market growth is chiefly fueled by the increasing requirement for operational efficiency and the superior performance of lithium chemistries compared to conventional lead-acid batteries, especially their faster charging capabilities and extended cycle life, which substantially reduce the total cost of ownership. The International Energy Agency reported that global battery demand for electric vehicle and storage applications collectively reached almost 1 terawatt-hour in 2024, underscoring the strong electrification trends that support industrial sector expansion.

## **Market Driver**

The market's expansion is primarily driven by two factors. Firstly, the accelerated electrification of material handling equipment is fundamentally transforming energy storage within logistics and manufacturing. This shift from internal combustion engines and traditional lead-acid systems to lithium-ion solutions is fueled by the need for higher energy density, quick opportunity charging, and zero-emission operations in enclosed

warehouse settings. Major original equipment manufacturers are strategically adopting electric powertrains to reduce operational downtime and improve fleet productivity, with KION Group's 2023 Annual Report noting that roughly 90 percent of new industrial trucks sold were electric-powered, reflecting strong industry preference. Secondly, the integration of renewable energy sources with grid-scale storage systems acts as another significant driver, requiring robust lithium-ion solutions to effectively manage the intermittent nature of solar and wind power. Industrial facilities and utility companies are increasingly deploying containerized battery energy storage systems to ensure power stability and implement peak shifting strategies. This growing demand for stationary storage is rapidly boosting global manufacturing output; for example, the China Automotive Battery Innovation Alliance reported cumulative production of power and energy storage batteries reached approximately 430 gigawatt-hours in the first half of 2024, while the U.S. utility-scale energy storage market deployed 2.9 gigawatts of new capacity in Q2 2024, according to the American Clean Power Association.

## **Market Challenge**

A significant hurdle impeding the growth of the Global Industrial Lithium-ion Batteries Market is the inherent volatility within raw material supply chains. Manufacturers rely heavily on essential minerals like lithium and cobalt for their high-performance energy storage solutions. However, the supply of these critical materials is often concentrated in a few geographic locations, leading to vulnerabilities from geopolitical trade disruptions and sudden market fluctuations. This instability complicates accurate forecasting of procurement costs and securing consistent material volumes, thereby impacting inventory management and potentially escalating manufacturing expenses. The International Energy Agency's 2024 data highlights this critical dependency, noting that the top three mining countries for key energy transition minerals collectively held an average market share of 77 percent. Such high concentration creates a fragile supply ecosystem where even minor localized issues can cause global shortages or price surges. Therefore, the consistent inability to guarantee a diversified and stable supply of raw materials continues to hinder the industry's expansion, preventing manufacturers from fully satisfying the increasing demand for industrial electrification.

## **Market Trends**

The market is currently being reshaped by two prominent trends. Firstly, the widespread adoption of Lithium Iron Phosphate (LFP) chemistries reflects manufacturers' focus on enhanced safety and thermal stability for heavy-duty applications. LFP batteries offer a reduced risk of thermal runaway and an extended cycle life compared to Nickel

Manganese Cobalt (NMC) alternatives, making them highly suitable for continuous industrial operations where weight is a secondary concern. This shift is also driven by economic factors, as LFP cathodes eliminate the need for costly cobalt, thereby stabilizing production expenses amid fluctuating mineral markets; the Volta Foundation's 2024 Battery Report noted that new battery energy storage system installations in 2024, significantly influenced by the move to these cost-effective iron-based architectures, constituted over 45 percent of the total cumulative global capacity. Secondly, the proliferation of second-life battery utilization and circular economy initiatives is gaining traction as a strategic solution to raw material scarcity. Industrial stakeholders are increasingly repurposing retired electric vehicle batteries, which still possess substantial residual capacity, for stationary storage applications to maximize their value and minimize waste. Simultaneously, the expansion of recycling infrastructure is accelerating to complete the loop on critical mineral supply chains, facilitating the recovery of lithium and other metals from end-of-life units. The U.S. Department of Energy reported that the United States developed domestic battery recycling capacity to reclaim 35,500 tons of battery materials in 2023, showcasing the rapid growth of facilities supporting this sustainable industrial ecosystem.

### **Key Market Players**

Panasonic Corporation

BYD Co. Ltd

GS Yuasa International Ltd.

TSECH Co.

LG Chem

ReLieVe

Hitachi Chemical Company Ltd.

Samsung SDI

Exide Technologies

Robert Bosch GmbH

## Report Scope

In this report, the Global Industrial Lithium-ion Batteries Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### Industrial Lithium-ion Batteries Market, By Type

Primary

Rechargeable

### Industrial Lithium-ion Batteries Market, By End-Use Industry

Automotive

Consumer Electronics

Power Tools

Industrial

Medical

Others

### Industrial Lithium-ion Batteries Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Industrial Lithium-ion Batteries Market.

## **Available Customizations:**

Global Industrial Lithium-ion Batteries Market report with the given market data, TechSci 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 (up to five).

## Contents

### **1. PRODUCT OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### **3. EXECUTIVE SUMMARY**

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

### **4. VOICE OF CUSTOMER**

### **5. GLOBAL INDUSTRIAL LITHIUM-ION BATTERIES MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Type (Primary, Rechargeable)
  - 5.2.2. By End-Use Industry (Automotive, Consumer Electronics, Power Tools, Industrial, Medical, Others)
  - 5.2.3. By Region

- 5.2.4. By Company (2025)
- 5.3. Market Map

## **6. NORTH AMERICA INDUSTRIAL LITHIUM-ION BATTERIES MARKET OUTLOOK**

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Type
  - 6.2.2. By End-Use Industry
  - 6.2.3. By Country
- 6.3. North America: Country Analysis
  - 6.3.1. United States Industrial Lithium-ion Batteries Market Outlook
    - 6.3.1.1. Market Size & Forecast
      - 6.3.1.1.1. By Value
    - 6.3.1.2. Market Share & Forecast
      - 6.3.1.2.1. By Type
      - 6.3.1.2.2. By End-Use Industry
  - 6.3.2. Canada Industrial Lithium-ion Batteries Market Outlook
    - 6.3.2.1. Market Size & Forecast
      - 6.3.2.1.1. By Value
    - 6.3.2.2. Market Share & Forecast
      - 6.3.2.2.1. By Type
      - 6.3.2.2.2. By End-Use Industry
  - 6.3.3. Mexico Industrial Lithium-ion Batteries Market Outlook
    - 6.3.3.1. Market Size & Forecast
      - 6.3.3.1.1. By Value
    - 6.3.3.2. Market Share & Forecast
      - 6.3.3.2.1. By Type
      - 6.3.3.2.2. By End-Use Industry

## **7. EUROPE INDUSTRIAL LITHIUM-ION BATTERIES MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Type
  - 7.2.2. By End-Use Industry
  - 7.2.3. By Country

### 7.3. Europe: Country Analysis

#### 7.3.1. Germany Industrial Lithium-ion Batteries Market Outlook

##### 7.3.1.1. Market Size & Forecast

###### 7.3.1.1.1. By Value

##### 7.3.1.2. Market Share & Forecast

###### 7.3.1.2.1. By Type

###### 7.3.1.2.2. By End-Use Industry

#### 7.3.2. France Industrial Lithium-ion Batteries Market Outlook

##### 7.3.2.1. Market Size & Forecast

###### 7.3.2.1.1. By Value

##### 7.3.2.2. Market Share & Forecast

###### 7.3.2.2.1. By Type

###### 7.3.2.2.2. By End-Use Industry

#### 7.3.3. United Kingdom Industrial Lithium-ion Batteries Market Outlook

##### 7.3.3.1. Market Size & Forecast

###### 7.3.3.1.1. By Value

##### 7.3.3.2. Market Share & Forecast

###### 7.3.3.2.1. By Type

###### 7.3.3.2.2. By End-Use Industry

#### 7.3.4. Italy Industrial Lithium-ion Batteries Market Outlook

##### 7.3.4.1. Market Size & Forecast

###### 7.3.4.1.1. By Value

##### 7.3.4.2. Market Share & Forecast

###### 7.3.4.2.1. By Type

###### 7.3.4.2.2. By End-Use Industry

#### 7.3.5. Spain Industrial Lithium-ion Batteries Market Outlook

##### 7.3.5.1. Market Size & Forecast

###### 7.3.5.1.1. By Value

##### 7.3.5.2. Market Share & Forecast

###### 7.3.5.2.1. By Type

###### 7.3.5.2.2. By End-Use Industry

## 8. ASIA PACIFIC INDUSTRIAL LITHIUM-ION BATTERIES MARKET OUTLOOK

### 8.1. Market Size & Forecast

#### 8.1.1. By Value

### 8.2. Market Share & Forecast

#### 8.2.1. By Type

#### 8.2.2. By End-Use Industry

### 8.2.3. By Country

## 8.3. Asia Pacific: Country Analysis

### 8.3.1. China Industrial Lithium-ion Batteries Market Outlook

#### 8.3.1.1. Market Size & Forecast

##### 8.3.1.1.1. By Value

#### 8.3.1.2. Market Share & Forecast

##### 8.3.1.2.1. By Type

##### 8.3.1.2.2. By End-Use Industry

### 8.3.2. India Industrial Lithium-ion Batteries Market Outlook

#### 8.3.2.1. Market Size & Forecast

##### 8.3.2.1.1. By Value

#### 8.3.2.2. Market Share & Forecast

##### 8.3.2.2.1. By Type

##### 8.3.2.2.2. By End-Use Industry

### 8.3.3. Japan Industrial Lithium-ion Batteries Market Outlook

#### 8.3.3.1. Market Size & Forecast

##### 8.3.3.1.1. By Value

#### 8.3.3.2. Market Share & Forecast

##### 8.3.3.2.1. By Type

##### 8.3.3.2.2. By End-Use Industry

### 8.3.4. South Korea Industrial Lithium-ion Batteries Market Outlook

#### 8.3.4.1. Market Size & Forecast

##### 8.3.4.1.1. By Value

#### 8.3.4.2. Market Share & Forecast

##### 8.3.4.2.1. By Type

##### 8.3.4.2.2. By End-Use Industry

### 8.3.5. Australia Industrial Lithium-ion Batteries Market Outlook

#### 8.3.5.1. Market Size & Forecast

##### 8.3.5.1.1. By Value

#### 8.3.5.2. Market Share & Forecast

##### 8.3.5.2.1. By Type

##### 8.3.5.2.2. By End-Use Industry

## 9. MIDDLE EAST & AFRICA INDUSTRIAL LITHIUM-ION BATTERIES MARKET OUTLOOK

### 9.1. Market Size & Forecast

#### 9.1.1. By Value

### 9.2. Market Share & Forecast

- 9.2.1. By Type
- 9.2.2. By End-Use Industry
- 9.2.3. By Country
- 9.3. Middle East & Africa: Country Analysis
  - 9.3.1. Saudi Arabia Industrial Lithium-ion Batteries Market Outlook
    - 9.3.1.1. Market Size & Forecast
      - 9.3.1.1.1. By Value
    - 9.3.1.2. Market Share & Forecast
      - 9.3.1.2.1. By Type
      - 9.3.1.2.2. By End-Use Industry
  - 9.3.2. UAE Industrial Lithium-ion Batteries Market Outlook
    - 9.3.2.1. Market Size & Forecast
      - 9.3.2.1.1. By Value
    - 9.3.2.2. Market Share & Forecast
      - 9.3.2.2.1. By Type
      - 9.3.2.2.2. By End-Use Industry
  - 9.3.3. South Africa Industrial Lithium-ion Batteries Market Outlook
    - 9.3.3.1. Market Size & Forecast
      - 9.3.3.1.1. By Value
    - 9.3.3.2. Market Share & Forecast
      - 9.3.3.2.1. By Type
      - 9.3.3.2.2. By End-Use Industry

## **10. SOUTH AMERICA INDUSTRIAL LITHIUM-ION BATTERIES MARKET OUTLOOK**

- 10.1. Market Size & Forecast
  - 10.1.1. By Value
- 10.2. Market Share & Forecast
  - 10.2.1. By Type
  - 10.2.2. By End-Use Industry
  - 10.2.3. By Country
- 10.3. South America: Country Analysis
  - 10.3.1. Brazil Industrial Lithium-ion Batteries Market Outlook
    - 10.3.1.1. Market Size & Forecast
      - 10.3.1.1.1. By Value
    - 10.3.1.2. Market Share & Forecast
      - 10.3.1.2.1. By Type
      - 10.3.1.2.2. By End-Use Industry
  - 10.3.2. Colombia Industrial Lithium-ion Batteries Market Outlook

#### 10.3.2.1. Market Size & Forecast

##### 10.3.2.1.1. By Value

#### 10.3.2.2. Market Share & Forecast

##### 10.3.2.2.1. By Type

##### 10.3.2.2.2. By End-Use Industry

#### 10.3.3. Argentina Industrial Lithium-ion Batteries Market Outlook

##### 10.3.3.1. Market Size & Forecast

##### 10.3.3.1.1. By Value

##### 10.3.3.2. Market Share & Forecast

##### 10.3.3.2.1. By Type

##### 10.3.3.2.2. By End-Use Industry

## 11. MARKET DYNAMICS

### 11.1. Drivers

### 11.2. Challenges

## 12. MARKET TRENDS & DEVELOPMENTS

### 12.1. Merger & Acquisition (If Any)

### 12.2. Product Launches (If Any)

### 12.3. Recent Developments

## 13. GLOBAL INDUSTRIAL LITHIUM-ION BATTERIES MARKET: SWOT ANALYSIS

## 14. PORTER'S FIVE FORCES ANALYSIS

### 14.1. Competition in the Industry

### 14.2. Potential of New Entrants

### 14.3. Power of Suppliers

### 14.4. Power of Customers

### 14.5. Threat of Substitute Products

## 15. COMPETITIVE LANDSCAPE

### 15.1. Panasonic Corporation

#### 15.1.1. Business Overview

#### 15.1.2. Products & Services

#### 15.1.3. Recent Developments

- 15.1.4. Key Personnel
- 15.1.5. SWOT Analysis
- 15.2. BYD Co. Ltd
- 15.3. GS Yuasa International Ltd.
- 15.4. TSECH Co.
- 15.5. LG Chem
- 15.6. ReLieVe
- 15.7. Hitachi Chemical Company Ltd.
- 15.8. Samsung SDI
- 15.9. Exide Technologies
- 15.10. Robert Bosch GmbH

## **16. STRATEGIC RECOMMENDATIONS**

## **17. ABOUT US & DISCLAIMER**

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