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Industrial Battery Market - Global Industry Size, Share, Trends, Opportunity, and Forecast. Segmented By Type (Lead-Acid, Lithium-Based and Others), By Application (Telecommunication, Power Storages, Industrial Equipment, Electric Grid Storage and Others), By Region & Competition, 2021-2031F

https://marketpublishers.com/r/ID3E40FAAFE8EN.html
Date: January 2026
Pages: 182
Price: US$ 4,500.00 (Single User License)
ID: ID3E40FAAFE8EN

Abstracts

The Global Industrial Battery Market is projected to expand from USD 26.97 Billion in 2025 to USD 44.54 Billion by 2031, registering a CAGR of 8.72%. These industrial-grade batteries function as high-capacity energy storage units tailored for rigorous uses, including motive power for forklifts and stationary backup systems for data centers. The market's upward trajectory is chiefly driven by the widespread electrification of material handling fleets and the essential requirement for reliable grid stabilization within an increasingly automated economy. These operational imperatives are distinct from specific technological shifts, such as the transition to lithium chemistries, as they reflect the core functional needs of modern industry. Highlighting this reliance on battery-operated machinery, the Industrial Truck Association reported in 2024 that the market share for electric lift trucks increased to 67%.

However, the sector encounters significant hurdles related to the instability of raw material supply chains. The unpredictability of costs and the availability of essential minerals can result in manufacturing setbacks and higher capital expenses for end users. This volatility jeopardizes market growth by potentially impeding the affordability and timely implementation of energy storage solutions across price-sensitive industrial sectors.

Market Driver

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The ongoing development of telecommunications and 5G network infrastructure acts as a major engine for market expansion, requiring durable energy storage systems to ensure network stability. As operators increase network density to accommodate higher bandwidths and reduced latency, the deployment of macro towers and small cells rises, necessitating uninterrupted backup power solutions to prevent grid-related service disruptions. This infrastructure expansion is directly linked to battery procurement levels, as telecom providers emphasize energy resilience to uphold service continuity during primary power outages. According to the June 2024 'Ericsson Mobility Report,' global 5G subscriptions increased by 160 million in the first quarter of 2024, indicating a rapid expansion of connectivity assets that rely on industrial-grade power reserves.

Concurrently, the rise of hyperscale data centers and cloud computing is transforming the demand for uninterruptible power supply systems. The surge in data processing, fueled by artificial intelligence workloads, compels facility operators to implement high-capacity battery arrays to maintain operational continuity and safeguard hardware against power fluctuations. This sector necessitates high-performance storage to span the interval between grid failure and generator activation, ensuring zero downtime for essential digital services. As noted by Goldman Sachs in their May 2024 report 'Generational Growth: AI, Data Centers and the Coming Energy Surge,' data center power demand is expected to rise by 160% by 2030, pointing to a sustained need for scalable backup options. Similarly, the International Energy Agency projects that global investment in battery storage will surpass USD 50 billion in 2024, underscoring the financial dedication to stabilizing modern industrial energy grids.

Market Challenge

The unpredictability of raw material supply chains acts as a significant impediment to the advancement of the Global Industrial Battery Market. Manufacturers rely on a steady supply of inputs like lead, nickel, and lithium to accurately forecast costs and sustain production volumes. When supply chains become unstable, producers struggle to provide competitive pricing or assure delivery schedules, creating uncertainty that causes industrial consumers to delay large-scale electrification commitments, thereby slowing market adoption rates.

This disruption is evident in recent industry data regarding essential battery components. For instance, the International Lead and Zinc Study Group reported that global refined lead metal production fell by 0.8% in the first half of 2024, driven by reduced output in key processing hubs such as China and Canada. Such variability in

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primary material availability forces battery manufacturers to divert capital toward inventory stockpiling rather than innovation. This operational burden directly hinders the sector's capacity to efficiently satisfy the escalating demands for motive power and grid stabilization solutions.

Market Trends

The widespread uptake of Lithium Iron Phosphate (LFP) chemistry is fundamentally transforming the industrial battery sector by providing a safer, more cost-effective alternative to established nickel-based and lead-acid technologies. Due to its exceptional thermal stability and prolonged cycle life, which effectively reduce the total cost of ownership for high-use assets, LFP is increasingly becoming the preferred option for material handling equipment and stationary energy storage systems. This transition is further hastened by substantial production scaling in major manufacturing hubs, which reduces cell costs and enhances global availability for industrial uses. As reported by the China Automotive Battery Innovation Alliance in January 2025, LFP batteries comprised 74.6% of the total installed capacity in China during 2024, indicating a massive supply-side shift that is directly shaping global industrial procurement strategies.

In parallel, the industry is witnessing a notable localization of battery manufacturing and supply chains aimed at bolstering resilience against global interruptions and cutting logistical expenses. Both nations and large corporations are actively bringing production capabilities onshore to minimize risks linked to imported cells and to ensure regional energy autonomy. This structural shift involves the creation of vertically integrated ecosystems that cover every stage from electrode fabrication to final pack assembly within the local region. According to the U.S. Department of Energy's December 2024 review of supply chains, announced investments in domestic battery manufacturing have surpassed USD 150 billion since 2021, demonstrating a focused effort to establish self-reliant production infrastructure for essential industrial power resources.

Key Market Players

C&D Technologies Pvt. Ltd

East Penn Manufacturing Company Inc.

Enersys, Inc.

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Exide Industries Ltd

GS Yuasa Corporation

Amara Raja Batteries Ltd

Panasonic Corporation

Saft Groupe SA

East Penn Manufacturing Co.

Robert Bosch GmbH

Report Scope

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

Industrial Battery Market, By Type

Lead-Acid

Lithium-Based

Others

Industrial Battery Market, By Application

Telecommunication

Power Storages

Industrial Equipment

Electric Grid Storage

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- Others

Industrial Battery 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

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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 Battery Market.

Available Customizations:

Global Industrial Battery 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).

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