

Global Energy Storage Battery Recycled Black Powder Market Growth 2026-2032

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Abstracts

The global Energy Storage Battery Recycled Black Powder market size is predicted to grow from US\$ 323 million in 2025 to US\$ 779 million in 2032; it is expected to grow at a CAGR of 13.5% from 2026 to 2032.

NCM Cathode Black Powder refers to the cathode-active material concentrate recovered from end-of-life nickel-cobalt-manganese lithium-ion batteries through discharge, dismantling, crushing, and physical separation processes. The material is rich in nickel, cobalt, manganese, lithium, and residual graphite carbon, and serves as a critical intermediate feedstock for hydrometallurgical extraction and regeneration of battery-grade ternary cathode materials. In 2025, the industry's capacity utilization rate reached 73%, and the average gross margin was approximately 50%. Production in 2025 totaled about 143,500 tons, with an average price of USD 2,300 per ton. The upstream segment mainly consists of specialized battery recycling equipment manufacturers, with representative suppliers including STEINERT, Batrium, Zhejiang Tianchang Intelligent Manufacturing Co., Ltd., and Brunp Recycling Equipment Division. The midstream focuses on black powder processing, composition optimization, and deep impurity removal, covering precision crushing, pyrolysis, screening, and metal enrichment technologies. Downstream applications are concentrated in the regenerated manufacturing of cathode materials for power and energy storage batteries, with typical customers including CATL, BYD, LG Energy Solution, and Tesla.

With the rapid growth of new energy vehicles, energy storage systems, and portable electronic devices, lithium battery recycled black powder, as a key intermediate rich in strategic metals such as nickel, cobalt, and lithium, is experiencing steadily increasing market demand. Its high metal recovery rate and excellent material performance provide significant value in reducing raw material costs, securing supply, and promoting

the circular economy. Over the next five to ten years, policy support, technological advances, and environmental requirements are expected to further unlock industry potential, positioning lithium battery recycled black powder as a core component in the global battery recycling ecosystem, driving supply chain optimization and generating substantial economic and sustainable development benefits.

LP Information, Inc. (LPI) ' newest research report, the 'Energy Storage Battery Recycled Black Powder Industry Forecast' looks at past sales and reviews total world Energy Storage Battery Recycled Black Powder sales in 2025, providing a comprehensive analysis by region and market sector of projected Energy Storage Battery Recycled Black Powder sales for 2026 through 2032. With Energy Storage Battery Recycled Black Powder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Energy Storage Battery Recycled Black Powder industry.

This Insight Report provides a comprehensive analysis of the global Energy Storage Battery Recycled Black Powder landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Energy Storage Battery Recycled Black Powder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Energy Storage Battery Recycled Black Powder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Energy Storage Battery Recycled Black Powder and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Energy Storage Battery Recycled Black Powder.

This report presents a comprehensive overview, market shares, and growth opportunities of Energy Storage Battery Recycled Black Powder market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Ternary Lithium Cathode

LiFePO4 Cathode

Others

Segmentation by Technology:

Dry Method

Wet Method

Others

Segmentation by Acid-insoluble Residue:

? 5.00%

? 1.00%

Segmentation by Application:

Power Battery

Consumer Electronics Battery

Energy Storage Battery

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Brunp Recycling

Ganfeng Lithium

GEM

Miracle Automation Engineering

Redwood Materials

Glencore

Ganzhou Longkai Technology

Huayou Cobalt

Umicore

SungEel HiTech

Key Questions Addressed in this Report

What is the 10-year outlook for the global Energy Storage Battery Recycled Black Powder market?

What factors are driving Energy Storage Battery Recycled Black Powder market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Energy Storage Battery Recycled Black Powder market opportunities vary by end market size?

How does Energy Storage Battery Recycled Black Powder break out by Type, by Application?

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