

Global Power Battery Recycled Electrode Black Powder Market Growth 2026-2032

<https://marketpublishers.com/r/GED2DA1B02A6EN.html>

Date: May 2026

Pages: 89

Price: US\$ 3,660.00 (Single User License)

ID: GED2DA1B02A6EN

Abstracts

The global Power Battery Recycled Electrode Black Powder market size is predicted to grow from US\$ 1008 million in 2025 to US\$ 2475 million in 2032; it is expected to grow at a CAGR of 13.8% from 2026 to 2032.

Power Battery Recycled Electrode Black Powder refers to the fine particulate mixture rich in valuable metals such as lithium, nickel, cobalt, and manganese, obtained after end-of-life power batteries undergo discharge, dismantling, shredding, and multi-stage physical separation processes that specifically isolate and concentrate active materials from cathode and anode electrodes while removing casings, separators, and copper/aluminum current collectors. As a critical intermediate feedstock for hydrometallurgical refining or direct material regeneration, this product achieved a capacity utilization rate of 73% and an average industry gross margin of approximately 50% in 2025. Its upstream segment comprises specialized battery recycling equipment manufacturers, with representative suppliers including STEINERT GmbH (Germany), Batrium (Switzerland), Zhejiang Tianchang Intelligent Manufacturing Co., Ltd., and the Equipment Division of Brunp Recycling Technology Co., Ltd. The midstream focuses on the production, compositional tuning, and deep impurity removal of electrode black powder through core processes such as precision shredding, pyrolysis, sieving, and elemental enrichment. Downstream, it is primarily used in the regenerated manufacturing of cathode materials for traction and energy storage batteries, with key customers including CATL, BYD, LG Energy Solution, and Tesla. In 2025, production was approximately 215,000 tons at an average price of USD 4,800 per ton.

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 “Power Battery Recycled Electrode Black Powder Industry Forecast” looks at past sales and reviews total world Power Battery Recycled Electrode Black Powder sales in 2025, providing a comprehensive analysis by region and market sector of projected Power Battery Recycled Electrode Black Powder sales for 2026 through 2032. With Power Battery Recycled Electrode Black Powder sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Power Battery Recycled Electrode Black Powder industry.

This Insight Report provides a comprehensive analysis of the global Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Power Battery Recycled Electrode Black Powder market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder.

This report presents a comprehensive overview, market shares, and growth opportunities of Power Battery Recycled Electrode 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 Power Battery Recycled Electrode Black Powder market?

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

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

How do Power Battery Recycled Electrode Black Powder market opportunities vary by

end market size?

How does Power Battery Recycled Electrode Black Powder break out by Type, by Application?

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