

Global Power Battery Recycled Electrode Black Powder Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Power Battery Recycled Electrode Black Powder market size was valued at US\$ 1060 million in 2025 and is forecast to a readjusted size of US\$ 2494 million by 2032 with a CAGR of 13.0% during review period.

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.

This report is a detailed and comprehensive analysis for global Power Battery Recycled Electrode Black Powder market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Power Battery Recycled Electrode Black Powder market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Power Battery Recycled Electrode Black Powder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Power Battery Recycled Electrode Black Powder market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Power Battery Recycled Electrode Black Powder market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Power Battery Recycled Electrode Black Powder
- To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Power Battery Recycled Electrode Black Powder market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Brunp Recycling, Ganfeng Lithium, GEM, Miracle Automation Engineering, Redwood Materials, Glencore, Ganzhou Longkai Technology, Huayou Cobalt, Umicore, SungEel HiTech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Power Battery Recycled Electrode Black Powder market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Ternary Lithium Cathode

LiFePO4 Cathode

Others

Market segment by Technology

Dry Method

Wet Method

Others

Market segment by Acid-insoluble Residue

? 5.00%

? 1.00%

Market segment by Application

Power Battery

Consumer Electronics Battery

Energy Storage Battery

Others

Major players covered

Brunp Recycling

Ganfeng Lithium

GEM

Miracle Automation Engineering

Redwood Materials

Glencore

Ganzhou Longkai Technology

Huayou Cobalt

Umicore

SungEel HiTech

Market segment by region, regional analysis covers
North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Power Battery Recycled Electrode Black Powder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Power Battery Recycled Electrode Black Powder, with price, sales quantity, revenue, and global market share of Power Battery Recycled Electrode Black Powder from 2021 to 2026.

Chapter 3, the Power Battery Recycled Electrode Black Powder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Power Battery Recycled Electrode Black Powder breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Power Battery Recycled Electrode Black Powder market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Power Battery Recycled Electrode Black Powder.

Chapter 14 and 15, to describe Power Battery Recycled Electrode Black Powder sales channel, distributors, customers, research findings and conclusion.

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