

Global Recycled Battery Metals from Lithium-ion Battery Black Mass 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 Recycled Battery Metals from Lithium-ion Battery Black Mass market size was valued at US\$ 5453 million in 2025 and is forecast to a readjusted size of US\$ 17385 million by 2032 with a CAGR of 15.8% during review period.

In 2025, the global production volume of recycled battery metals from lithium-ion battery black mass was approximately 1.0 million tonnes, with an average price of about USD 5,315 per tonne. Recycled battery metals from lithium-ion battery black mass refer to resource-recovered material products produced from black mass generated through the discharging, dismantling, crushing, and sorting of spent lithium-ion batteries and lithium-ion battery manufacturing scrap. Through hydrometallurgical, pyrometallurgical, combined pyro-hydrometallurgical, or direct recycling processes, the black mass is converted into recycled lithium compounds, recycled nickel compounds, recycled cobalt compounds, recycled manganese compounds, mixed metal intermediates, and recycled precursor materials. These products recover valuable metals such as lithium, nickel, cobalt, and manganese from battery waste streams, improve the resource value of end-of-life batteries and manufacturing scrap, reduce pressure on critical battery metal supply, and provide circular material inputs for electric vehicle batteries, energy storage batteries, consumer electronics batteries, and other industrial lithium-ion battery applications.

Continued expansion of electric vehicles and energy storage batteries. The rapid growth of electric vehicles and energy storage systems continues to increase demand for lithium, nickel, cobalt, manganese and other critical battery metals. At the same time, larger battery production volumes generate more manufacturing scrap and create a

growing future pool of end-of-life batteries, supporting long-term feedstock supply for black mass recycling.

Rising availability of battery manufacturing scrap. In the short to medium term, battery manufacturing scrap is one of the most important feedstock sources for recycled battery metals. Electrode scrap, off-spec cells and production waste from battery cell plants and cathode material plants are relatively clean, compositionally stable and easier to process than mixed end-of-life batteries, making them suitable for commercial-scale recovery of recycled lithium compounds and nickel-cobalt-manganese materials.

Gradual release of end-of-life EV batteries As early-generation electric vehicle batteries reach the end of their service life, the supply of spent lithium-ion batteries will increase steadily. This will provide a larger and more stable feedstock base for black mass production and metal recovery, shifting the market from being mainly manufacturing-scrap-driven to a broader recycling system supported by end-of-life battery flows.

Regulatory pressure on recycled content and battery recycling. Battery recycling regulations, recycled-content requirements and circular economy policies are becoming major demand drivers. In particular, regulatory frameworks in Europe and China are pushing battery manufacturers, cathode material producers and automakers to improve traceability, increase recovery rates and use more recycled metals in new batteries.

Critical mineral supply security. Lithium, nickel, cobalt and manganese supply chains are exposed to mining concentration, refining bottlenecks, geopolitical uncertainty and price volatility. Recycled battery metals from black mass provide a secondary source of critical materials, helping battery and automotive companies reduce dependence on primary mining supply and improve regional supply-chain resilience.

Technology upgrades in metal recovery and refining. Advances in hydrometallurgy, pyro-hydrometallurgy, selective leaching, solvent extraction, lithium precipitation, crystallization and direct recycling are improving recovery rates, impurity control and product quality. These technologies enable recyclers to move beyond low-value black mass production and produce higher-value outputs such as battery-grade lithium carbonate, lithium hydroxide, nickel sulfate, cobalt sulfate, manganese sulfate and recycled precursor materials.

Growing commercialization of LFP battery recycling. The rising share of lithium iron phosphate batteries in electric vehicles and energy storage is creating new growth opportunities. Although LFP black mass generally has a lower unit value than high-

nickel ternary black mass, its large installed base and rapid growth in energy storage are increasing demand for lithium recovery, iron phosphate regeneration and graphite recovery.

Closed-loop strategies by battery and materials companies. Battery manufacturers, cathode material producers, lithium salt producers and metal refiners are increasingly building closed-loop recycling systems through internal investment, joint ventures and acquisitions. These closed-loop strategies help secure raw materials, reduce carbon footprint, meet customer sustainability requirements and strengthen long-term supply relationships.

Low-carbon material procurement and ESG requirements. Recycled battery metals can offer lower environmental impact than primary mined materials and support corporate decarbonization targets. As automakers, battery producers and energy storage companies strengthen ESG procurement standards, demand for traceable, low-carbon and recycled battery materials is expected to increase.

Regionalization of battery supply chains. The localization of battery supply chains in North America, Europe, China, Korea and other major markets is accelerating demand for local black mass refining and recycled battery metal production. Regional recycling capacity helps reduce cross-border waste movement, improves compliance with local regulations and supports domestic battery material supply chains.

This report is a detailed and comprehensive analysis for global Recycled Battery Metals from Lithium-ion Battery Black Mass 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 Recycled Battery Metals from Lithium-ion Battery Black Mass market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Recycled Battery Metals from Lithium-ion Battery Black Mass market size and

forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Recycled Battery Metals from Lithium-ion Battery Black Mass 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 Recycled Battery Metals from Lithium-ion Battery Black Mass 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 Recycled Battery Metals from Lithium-ion Battery Black Mass

- 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 Recycled Battery Metals from Lithium-ion Battery Black Mass 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 GEM Co., Ltd., Guangdong Brunp Recycling Technology Co., Ltd., Zhejiang Huayou Cobalt Co., Ltd., Ganfeng Lithium Group Co., Ltd., Guangdong Guanghua Sci-Tech Co., Ltd., Miracle Automation Engineering Co., Ltd., CNGR Advanced Material Co., Ltd., Guangdong Fangyuan New Materials Group Co., Ltd., Guangdong Jinsheng New Energy Co., Ltd., Ganzhou Tengyuan Cobalt New Material Co., Ltd., etc.

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

Market Segmentation

Recycled Battery Metals from Lithium-ion Battery Black Mass 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

Recycled Lithium Compounds

Recycled Nickel Compounds

Recycled Cobalt Compounds

Recycled Manganese Compounds

Mixed Metal Intermediates

Recycled Precursor Materials

Other

Market segment by Battery Chemistry Source

Ternary Battery Black Mass

Lithium Iron Phosphate Battery Black Mass

Other

Market segment by Application

Electric Vehicle Batteries

Energy Storage Batteries

Consumer Electronics Batteries

Industrial Batteries

Other

Major players covered

GEM Co., Ltd.

Guangdong Brunp Recycling Technology Co., Ltd.

Zhejiang Huayou Cobalt Co., Ltd.

Ganfeng Lithium Group Co., Ltd.

Guangdong Guanghua Sci-Tech Co., Ltd.

Miracle Automation Engineering Co., Ltd.

CNGR Advanced Material Co., Ltd.

Guangdong Fangyuan New Materials Group Co., Ltd.

Guangdong Jinsheng New Energy Co., Ltd.

Ganzhou Tengyuan Cobalt New Material Co., Ltd.

Ganzhou Jirui New Energy Technology Co., Ltd.

Fujian Evergreen New Energy Technology Co., Ltd.

Hunan Keyking Recycling Technology Co., Ltd.

Hunan Shunhua Lithium Co., Ltd.

Anhui Chaoyue Environmental Protection Technology Co., Ltd.

Shanghai ZCycle New Energy Technology Co., Ltd.

Redwood Materials, Inc.

Ascend Elements, Inc.

American Battery Technology Company

Cirba Solutions

Nth Cycle, Inc.

Blue Whale Materials

ReElement Technologies Corporation

Princeton NuEnergy Inc.

Glencore plc

Umicore SA

BASF SE

Fortum Oyj

ACCUREC-Recycling GmbH

Duesenfeld GmbH

cylib GmbH

tozero GmbH

Mecaware SAS

Veolia

Altilium

SungEel HiTech Co., Ltd.

EcoPro Co., Ltd.

POSCO HY Clean Metal Co., Ltd.

SK tes

Sumitomo Metal Mining Co., Ltd.

JX Advanced Metals Corporation

DOWA Holdings Co., Ltd.

Attero Recycling Pvt. Ltd.

LOHUM Cleantech Pvt. Ltd.

BatX Energies Pvt. Ltd.

Rubamin Limited

NEU Battery Materials

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:

Global Recycled Battery Metals from Lithium-ion Battery Black Mass Market 2026 by Manufacturers, Regions, Type...

Chapter 1, to describe Recycled Battery Metals from Lithium-ion Battery Black Mass product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Recycled Battery Metals from Lithium-ion Battery Black Mass, with price, sales quantity, revenue, and global market share of Recycled Battery Metals from Lithium-ion Battery Black Mass from 2021 to 2026.

Chapter 3, the Recycled Battery Metals from Lithium-ion Battery Black Mass competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Recycled Battery Metals from Lithium-ion Battery Black Mass 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 Recycled Battery Metals from Lithium-ion Battery Black Mass 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 Recycled Battery Metals from Lithium-ion Battery Black Mass.

Chapter 14 and 15, to describe Recycled Battery Metals from Lithium-ion Battery Black Mass sales channel, distributors, customers, research findings and conclusion.

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