

Global Recycled Battery Metals from Lithium-ion Battery Black Mass Market Growth 2026-2032

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Abstracts

The global Recycled Battery Metals from Lithium-ion Battery Black Mass market size is predicted to grow from US\$ 5185 million in 2025 to US\$ 17391 million in 2032; it is expected to grow at a CAGR of 16.8% from 2026 to 2032.

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.

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

This Insight Report provides a comprehensive analysis of the global Recycled Battery Metals from Lithium-ion Battery Black Mass 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 Recycled Battery Metals from Lithium-ion Battery Black Mass portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Recycled Battery Metals from Lithium-ion Battery Black Mass

market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Recycled Battery Metals from Lithium-ion Battery Black Mass 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 Recycled Battery Metals from Lithium-ion Battery Black Mass.

This report presents a comprehensive overview, market shares, and growth opportunities of Recycled Battery Metals from Lithium-ion Battery Black Mass market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Recycled Lithium Compounds

Recycled Nickel Compounds

Recycled Cobalt Compounds

Recycled Manganese Compounds

Mixed Metal Intermediates

Recycled Precursor Materials

Other

Segmentation by Battery Chemistry Source:

Ternary Battery Black Mass

Lithium Iron Phosphate Battery Black Mass

Other

Segmentation by Application:

Electric Vehicle Batteries

Energy Storage Batteries

Consumer Electronics Batteries

Industrial Batteries

Other

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.

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

Key Questions Addressed in this Report

What is the 10-year outlook for the global Recycled Battery Metals from Lithium-ion Battery Black Mass market?

What factors are driving Recycled Battery Metals from Lithium-ion Battery Black Mass market growth, globally and by region?

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

How do Recycled Battery Metals from Lithium-ion Battery Black Mass market opportunities vary by end market size?

How does Recycled Battery Metals from Lithium-ion Battery Black Mass break out by Type, by Application?

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