

Global Recycled Battery Metals from Lithium-ion Battery Black Mass Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Recycled Battery Metals from Lithium-ion Battery Black Mass market size is expected to reach \$ 17385 million by 2032, rising at a market growth of 15.8% CAGR during the forecast period (2026-2032).

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.

This report studies the global Recycled Battery Metals from Lithium-ion Battery Black Mass production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Recycled Battery Metals from Lithium-ion Battery Black Mass and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Recycled Battery Metals from Lithium-ion Battery Black Mass that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Recycled Battery Metals from Lithium-ion Battery Black Mass total production and demand, 2021-2032, (Tons)

Global Recycled Battery Metals from Lithium-ion Battery Black Mass total production value, 2021-2032, (USD Million)

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

region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Recycled Battery Metals from Lithium-ion Battery Black Mass consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Recycled Battery Metals from Lithium-ion Battery Black Mass domestic production, consumption, key domestic manufacturers and share

Global Recycled Battery Metals from Lithium-ion Battery Black Mass production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Recycled Battery Metals from Lithium-ion Battery Black Mass production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Recycled Battery Metals from Lithium-ion Battery Black Mass production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

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, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Recycled Battery Metals from Lithium-ion Battery Black Mass market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Recycled Battery Metals from Lithium-ion Battery Black Mass Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Recycled Battery Metals from Lithium-ion Battery Black Mass Market, Segmentation by Type:

Recycled Lithium Compounds

Recycled Nickel Compounds

Recycled Cobalt Compounds

Recycled Manganese Compounds

Mixed Metal Intermediates

Recycled Precursor Materials

Other

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

Global Recycled Battery Metals from Lithium-ion Battery Black Mass Supply, Demand and Key Producers, 2026-2032

Segmentation by Battery Chemistry Source:

Ternary Battery Black Mass

Lithium Iron Phosphate Battery Black Mass

Other

Global Recycled Battery Metals from Lithium-ion Battery Black Mass Market, Segmentation by Application:

Electric Vehicle Batteries

Energy Storage Batteries

Consumer Electronics Batteries

Industrial Batteries

Other

Companies Profiled:

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 Answered:

1. How big is the global Recycled Battery Metals from Lithium-ion Battery Black Mass market?
2. What is the demand of the global Recycled Battery Metals from Lithium-ion Battery Black Mass market?
3. What is the year over year growth of the global Recycled Battery Metals from Lithium-ion Battery Black Mass market?
4. What is the production and production value of the global Recycled Battery Metals from Lithium-ion Battery Black Mass market?
5. Who are the key producers in the global Recycled Battery Metals from Lithium-ion Battery Black Mass market?
6. What are the growth factors driving the market demand?

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