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# Global Black Mass Recycling Market 2023

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## Abstracts

Black mass recycling refers to the process of reprocessing and recovering essential metals from discharged lithium-ion batteries. It involves breaking down spent batteries, sorting, crushing, and leaching to extract valuable metals like nickel, cobalt, copper, lithium, manganese, and others. The residual substance obtained from this process is known as black mass.

According to the latest research, the global black mass recycling market is poised to grow by USD 15.8 billion during 2023-2029, progressing at a CAGR of 17.7% during the forecast period. The rising prominence of lithium-ion batteries in industries such as automotive and energy is fueling the demand for black mass powder. This trend is particularly noticeable in regions like China, Asia-Pacific, Japan, and Europe, where the demand and consumption of these batteries are experiencing significant growth.

Circular economic principles have gained global attention as a means of promoting sustainable resource management. These principles focus on the recovery and reuse of materials to minimize waste and environmental impact. Recycling technologies have made remarkable advancements in the recovery of high-performance metals, aligning perfectly with the increasing demand for lithium-ion batteries. As a result, there is a growing need for black mass recycling to meet this demand and support circular economic practices.

The practice of black mass recycling offers a host of environmental and economic benefits. By promoting the efficient utilization of resources, it reduces the dependence on raw material mining, which often comes with its own set of environmental challenges. Furthermore, black mass recycling helps in minimizing waste generation and pollution associated with the disposal of used lithium-ion batteries.

From an economic standpoint, black mass recycling provides a consistent source of

essential metals for industries reliant on lithium-ion batteries. This ensures a steady supply chain, enhancing the efficiency of end-use sectors and potentially reducing costs. These economic benefits further incentivize the adoption of black mass recycling as a sustainable solution for managing and recovering valuable metals.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global black mass recycling market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

Market Segmentation
Battery source: automotive batteries, industrial batteries, portable batteries
Technology: hydrometallurgy, pyrometallurgy, others
Recovered metal: cobalt, copper, lithium, manganese, nickel, others
End user: aerospace and defense, automotive, construction, consumer electronics, energy, others
Region: Asia-Pacific, Europe, North America, RoW (Rest of World)

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the battery source, technology, recovered metal, end user, and region. The global market for black mass recycling can be segmented by battery source: automotive batteries, industrial batteries, portable batteries. The industrial batteries segment held the largest revenue share in 2022. Black mass recycling market is further segmented by technology: hydrometallurgy, pyrometallurgy, others. Among these, the hydrometallurgy segment was accounted for the highest revenue generator in 2022. Based on recovered metal, the black mass recycling market is segmented into: cobalt, copper, lithium, manganese, nickel, others. The nickel segment captured the largest share of the market in 2022. On the basis of end user, the black mass recycling market also can be divided into: aerospace and defense, automotive, construction, consumer electronics, energy, others. According to the research, the automotive segment had the largest share in the global black mass recycling market. Black mass recycling market by region is categorized into: Asia-Pacific, Europe, North America, RoW (Rest of World). Asia-Pacific held the largest revenue share in 2022.

Major Companies and Competitive Landscape
The report has also analysed the competitive landscape of the global black mass recycling market with some of the key players being Accurec Recycling GmbH, AkkuSer

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Oy, American Manganese Inc., Aqua Metals Inc., BASF SE, Battery Solutions, LLC, CALB (China Aviation Lithium Battery Co., Ltd.), EcoGraf Limited, Fortum Oyj, Green Li-ion Pte. Ltd., Kaiho Sangyo Co., Ltd., Li-Cycle Holdings Corp., Retriev Technologies Inc., Rubamin Limited, Sungeel Hi-Metal Co., Ltd., TATA Chemicals Limited, Tenova S.p.A., Umicore N.V., among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.

Scope of the Report
To analyze and forecast the market size of the global black mass recycling market.
To classify and forecast the global black mass recycling market based on battery source, technology, recovered metal, end user, region.
To identify drivers and challenges for the global black mass recycling market.
To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global black mass recycling market.
To identify and analyze the profile of leading players operating in the global black mass recycling market.

Why Choose This Report
Gain a reliable outlook of the global black mass recycling market forecasts from 2023 to 2029 across scenarios.
Identify growth segments for investment.
Stay ahead of competitors through company profiles and market data.
The market estimate for ease of analysis across scenarios in Excel format.
Strategy consulting and research support for three months.
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