

Global Lithium-Ion Battery Recycling Market Size Study & Forecast, by Chemistry (Lithium Cobalt Oxide, Lithium Iron Phosphate, Lithium Manganese Oxide, Lithium Nickel Cobalt Aluminum Oxide, Lithium Nickel Manganese Cobalt Oxide), by Source (Electronics, Electric Vehicles, Others), by Process (Physical/Mechanical, Hydrometallurgical, Pyrometallurgical), and Regional Analysis, 2023-2030

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Abstracts

Global Lithium-Ion Battery Recycling Market is valued at approximately USD 3.22 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 21.6% over the forecast period 2023-2030. A Lithium-Ion Battery (LIB) is a type of electrochemical cell, comprising essential components such as electrodes and catalysts that facilitate power generation for diverse applications. The cathode and anode tubes contain materials composed of precious metals with limited reserves and high resale values. As a result, the recycling of lithium-ion batteries plays a crucial role in extracting and selling the raw materials found in the electrode composition. This approach aims to mitigate the overall project cost and minimize the environmental impact. These dynamics are pivotal in fostering the growth of the Lithium-ion Battery Recycling Market. The recycling process involves the retrieval and repurposing of materials from spent or end-of-life lithium-ion batteries, which are extensively utilized in electronic devices, electric vehicles, and renewable energy systems owing to their elevated energy density and prolonged cycle life. The rise in the number of stringent policies to prohibit disposal of untreated chemical waste, increasing corporate sustainability initiatives, soaring demand for recycled products and materials, coupled with the depletion of earth metals are the key factors that are primarily contributing to the market demand worldwide.

In addition, the rapid penetration of electric vehicles which predominantly use lithium-ion batteries is exhibiting a positive influence on the market demand over the estimated period. As per the International Energy Agency (IEA), in 2020, the number of electric vehicles sold in the United States was 295,000 and the number increased significantly and reached 631,000 in 2021. Also, the India Brand Equity Foundation (IBEF) reported that approximately 10% of global car sales were electric in the year 2021, which shows a four-fold increase from the market share in 2019. Accordingly, as the electric vehicle market expands, the volume of end-of-life batteries requiring recycling increases, creating a demand for efficient recycling processes. Thus, these aforementioned factors are bolstering the expansion for the Lithium-Ion Battery Recycling Market at a substantial rate. Moreover, the rising advancements in recycling technologies, as well as the increasing deployment of Energy Storage Systems (ESS) present various lucrative opportunities over the forecast years. However, the high initial investment and the safety issues related to the storage and transportation of spent batteries are challenging the market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Lithium-Ion Battery Recycling Market study include Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to the substantial presence of recycling companies, the availability of diverse battery manufacturers, a significant installed base of batteries, and favorable policies supporting battery energy storage. For instance, in January 2020, GS Engineering & Construction Corp., a South Korean civil engineering company, announced its plans for a new lithium-ion battery recycling facility. This initiative is poised to have a projected capacity of 4.5 kilotons with an investment of approximately KRW 100 billion (USD 86 million) by 2022. The project was commissioned by the Pohang City and North Gyeongsang Province administrations, emphasizing the region's commitment to fostering industry growth. Whereas, North America is expected to grow at a significant CAGR over the forecast years. The growing investments and rising regulatory frameworks implemented by diverse administrations and organizations are significantly propelling the market demand across the region. Additionally, a substantial consumer base and the presence of key players in the region and the rapid expansion of the electric vehicle industry are the factors that play a significant role in fostering market growth in North America.

Major market players included in this report are:

SNAM S.p.A (France)

Umicore (Belgium)

Sumitomo Metal Mining Co., Ltd. (Japan)

Lithion Recycling Inc. (Canada)

BATREC INDUSTRIE AG (Switzerland)

American Zinc Recycling Corp (U.S.)

DOWA ECO-SYSTEM Co., Ltd. (Japan)

Li-Cycle Corp. (Canada)

Neometals Ltd (Australia)

ACCUREC Recycling GmbH (Germany)

Recent Developments in the Market:

In April 2023, Glencore, FCC ?mbito, and Iberdrola unveiled a collaborative initiative to offer extensive lithium-ion battery recycling solutions in Spain and Portugal. This collaboration addresses a significant medium to long-term challenge within the sector—the recycling of lithium-ion batteries. The primary focus of this initiative is on the creation of a specialized facility dedicated to the purposeful recycling of these batteries.

In March 2023, Fortum Battery Recycling has inaugurated its electric vehicle (EV) battery recycling operations in Kirchartd, Germany. The aim is to offer collection and processing services for end-of-life batteries and production scrap near central European customers. The German facility has the capability to pre-treat over 3,000 tons of batteries annually and is connected to the Harjavalta site, where the hydrometallurgical process is conducted.

Global Lithium-Ion Battery Recycling Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Chemistry, Source, Process, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Chemistry:

Lithium Cobalt Oxide

Lithium Iron Phosphate

Lithium Manganese Oxide

Lithium Nickel Cobalt Aluminum Oxide

Lithium Nickel Manganese Cobalt Oxide

By Source:

Electronics

Electric Vehicles

Power Tools

Others

By Process:

Physical/Mechanical

Hydrometallurgical

Pyrometallurgical

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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