

Global Lithium-ion Battery Recycling Market Growth (Status and Outlook) 2025-2031

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Abstracts

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The global Lithium-ion Battery Recycling market size is predicted to grow from US\$ 4722 million in 2025 to US\$ 34830 million in 2031; it is expected to grow at a CAGR of 39.5% from 2025 to 2031.

Battery recycling is a recycling activity that aims to reduce the number of batteries being disposed as municipal solid waste. Batteries contain a number of heavy metals and toxic chemicals and disposing of them by the same process as regular trash has raised concerns over soil contamination and water pollution.

Lithium-ion batteries and lithium iron phosphate (LiFePO₄) batteries often contain among other useful metals high-grade copper and aluminium in addition to – depending on the active material – transition metals cobalt and nickel as well as rare earths. To prevent a future shortage of cobalt, nickel, and lithium and to enable a sustainable life cycle of these technologies, recycling processes for lithium batteries are needed. These processes have to regain not only cobalt, nickel, copper, and aluminium from spent battery cells, but also a significant share of lithium. In order to achieve this goal, several unit operations are combined into complex process chains, especially considering the task to recover high rates of valuable materials with regard to involved safety issues.

Global Lithium-ion Battery Recycling key players include Umicore, GEM, Brunp Recycling, SungEel HiTech, Taisen Recycling, etc. Global top five manufacturers hold a share about 15%.

China is the largest market, with a share about 35%, followed by North America and

Europe, both have a share about 30 percent.

In terms of product, LiCoO₂ Battery is the largest segment, with a share over 65%. And in terms of application, the largest application is Electric Power, followed by Automotive.

LPI (LP Information)' newest research report, the "Lithium-ion Battery Recycling Industry Forecast" looks at past sales and reviews total world Lithium-ion Battery Recycling sales in 2024, providing a comprehensive analysis by region and market sector of projected Lithium-ion Battery Recycling sales for 2025 through 2031. With Lithium-ion Battery Recycling sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Lithium-ion Battery Recycling industry.

This Insight Report provides a comprehensive analysis of the global Lithium-ion Battery Recycling landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Lithium-ion Battery Recycling portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Lithium-ion Battery Recycling market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Lithium-ion Battery Recycling 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 Lithium-ion Battery Recycling.

This report presents a comprehensive overview, market shares, and growth opportunities of Lithium-ion Battery Recycling market by product type, application, key players and key regions and countries.

Segmentation by Type:

LiCoO₂ Battery

NMC Battery

LiFePO₄ Battery

Other

Segmentation by Application:

Automotive

Marine

Industrial

Electric Power

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 analyzing the company's coverage, product portfolio, its market penetration.

Umicore

GEM

Brunp Recycling

SungEel HiTech

Taisen Recycling

Batrec

Retriev Technologies

Tes-Amm(Recupyl)

Duesenfeld

4R Energy Corp

OnTo Technology

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