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Global Waste Lithium Battery Recycling Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Waste Lithium Battery Recycling market size is expected to reach $ 5107 million by 2032, rising at a market growth of 11.7% CAGR during the forecast period (2026-2032).

Waste lithium battery recycling refers to the systematic collection, safe handling, and resource recovery of lithium-ion batteries that have reached end-of-life or degraded beyond their original application requirements, with the objective of efficiently extracting valuable metals and enabling closed-loop material reuse. The sector achieved a capacity utilization rate of 73% in 2025, with an average industry gross margin of approximately 50%. Its upstream segment primarily comprises specialized equipment manufacturers for battery recycling, including STEINERT GmbH (Germany), Batrium (Switzerland), Zhejiang Tianchang Intelligent Manufacturing Co., Ltd. (a subsidiary of China's Tianneng Group), and the Equipment Division of Brunp Recycling Technology Co., Ltd. (China); the midstream encompasses core processes such as second-life assessment, safe dismantling, mechanical shredding, pyrometallurgical or hydrometallurgical treatment, and cathode material regeneration; while the downstream serves primarily the traction battery and energy storage battery markets, with key customers including CATL, BYD, LG Energy Solution, and Tesla.

With the rapid growth of new energy vehicles, energy storage systems, and electronic products, recycled anode black powder, as a key intermediate containing strategic metals such as nickel, cobalt, and lithium, is experiencing steadily rising market demand. Its high metal recovery rate and superior material quality provide significant value in reducing raw material costs, securing supply, and promoting the circular economy. Over the next five to ten years, policy support, technological advances, and environmental regulations are expected to further unlock industry potential, positioning

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recycled anode black powder as a core component in the global battery recycling and material regeneration ecosystem, generating substantial economic benefits and sustainable development prospects.

This report studies the global Waste Lithium Battery Recycling demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Waste Lithium Battery Recycling, 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 Waste Lithium Battery Recycling that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Waste Lithium Battery Recycling total market, 2021-2032, (USD Million)
Global Waste Lithium Battery Recycling total market by region & country, CAGR, 2021-2032, (USD Million)
U.S. VS China: Waste Lithium Battery Recycling total market, key domestic companies, and share, (USD Million)
Global Waste Lithium Battery Recycling revenue by player, revenue and market share 2021-2026, (USD Million)
Global Waste Lithium Battery Recycling total market by Type, CAGR, 2021-2032, (USD Million)
Global Waste Lithium Battery Recycling total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Waste Lithium Battery Recycling market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Umicore, Hydrovolt, Li-Cycle, Miracle Automation Engineering, China Resources Recycling Group, Sinochem Group, Ganzhou Longkai Technology, Cirba Solutions, RecycLiCo Battery Materials, GEM, 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 Waste Lithium Battery Recycling market

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Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, 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 Waste Lithium Battery Recycling Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Waste Lithium Battery Recycling Market, Segmentation by Type:

Ternary Lithium Battery Recycling

LiFePO4 Battery Recycling

Others

Global Waste Lithium Battery Recycling Market, Segmentation by Technology:

Pyrometallurgical Smelting

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Hydrometallurgical Recovery

Global Waste Lithium Battery Recycling Market, Segmentation by Recycling Stage:

Second Life

End-of-life Recycling

Global Waste Lithium Battery Recycling Market, Segmentation by Application:

Power Battery

Consumer Electronics Battery

Energy Storage Battery

Others

Companies Profiled:

Umicore

Hydrovolt

Li-Cycle

Miracle Automation Engineering

China Resources Recycling Group

Sinochem Group

Ganzhou Longkai Technology

Cirba Solutions

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RecycLiCo Battery Materials

GEM

Redwood Materials

Princeton NuEnergy

Key Questions Answered

1. How big is the global Waste Lithium Battery Recycling market?
2. What is the demand of the global Waste Lithium Battery Recycling market?
3. What is the year over year growth of the global Waste Lithium Battery Recycling market?
4. What is the total value of the global Waste Lithium Battery Recycling market?
5. Who are the Major Players in the global Waste Lithium Battery Recycling market?
6. What are the growth factors driving the market demand?

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