

# Global Automotive Battery Recycling Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Automotive Battery Recycling market size is expected to reach \$ 15895 million by 2032, rising at a market growth of 29.5% CAGR during the forecast period (2026-2032).

Automotive Battery Recycling refers to the industrial process of collecting, dismantling, processing, and recovering valuable materials such as lead, lithium, nickel, cobalt, copper, plastics, and electrolytes from used or end-of-life vehicle batteries, including lead-acid and lithium-ion batteries, in order to reduce environmental impact, recover critical raw materials, and reintroduce them into the battery manufacturing supply chain.

The automotive battery recycling industry chain begins upstream with the supply of end-of-life automotive batteries, battery collection networks, logistics providers, dismantling equipment manufacturers, and chemical reagents used in material recovery processes; the midstream segment consists of recycling operators performing battery disassembly, sorting, shredding, thermal treatment, hydrometallurgical extraction, and metal refining to recover materials such as lead, lithium, cobalt, nickel, copper, and aluminum; while the downstream segment includes battery manufacturers, automotive OEMs, metal smelters, cathode material producers, and energy storage system companies that utilize recovered materials to manufacture new batteries, metal alloys, and secondary raw materials for sustainable circular supply chains.

Numerous automotive battery recycling projects are currently under construction or planning stages globally, including large-scale lithium-ion battery recycling plants in China, Europe, and North America designed to process electric vehicle batteries, expansions of lead-acid battery recycling facilities in Southeast Asia and India to meet growing vehicle replacement demand, integrated recycling-refining plants linked with

battery manufacturing hubs, joint ventures between automakers and recycling companies to secure secondary raw materials, regional battery collection infrastructure development projects, and planned high-capacity hydrometallurgical processing facilities that aim to recover lithium, nickel, cobalt, and graphite from end-of-life electric vehicle batteries to support future circular battery supply chains.

2025 Global Market Average Gross Profit Margin: 21%.

The automotive battery recycling market has developed rapidly in recent years as the global vehicle industry transitions toward electrification and stricter environmental regulations. Historically, recycling activity was dominated by lead-acid batteries due to their high recycling rates and mature smelting technologies, but the rapid growth of electric vehicles has created a new segment focused on lithium-ion battery recycling. Governments and automotive manufacturers are increasingly emphasizing circular economy principles, encouraging recycling and material recovery to reduce reliance on mining and stabilize supply of critical metals such as lithium, cobalt, and nickel. As a result, investment in recycling infrastructure, technology development, and large-scale processing facilities has accelerated globally. The industry is evolving from traditional metal recovery toward closed-loop battery material systems integrated with battery manufacturing supply chains.

Regionally, Asia-Pacific represents the largest automotive battery recycling market due to its dominant battery manufacturing capacity, large vehicle population, and extensive lead-acid battery recycling infrastructure. China plays a particularly important role as both the largest electric vehicle market and a major hub for lithium-ion battery recycling technology development. Europe is also experiencing rapid market expansion driven by strict environmental regulations, battery passport initiatives, and regional supply chain localization strategies for electric vehicle production. North America is expanding recycling capacity as battery manufacturers and automakers seek to reduce dependence on imported critical minerals. Emerging markets in Southeast Asia, India, and Latin America are witnessing growing demand for lead-acid battery recycling due to rising vehicle ownership and replacement cycles.

Significant market development opportunities exist as the volume of end-of-life electric vehicle batteries is expected to increase sharply over the next decade. Recycling offers a strategic alternative to mining by providing secondary sources of lithium, cobalt, and nickel while reducing environmental impact and energy consumption. Technological innovation in direct recycling and advanced hydrometallurgical processes is improving recovery efficiency and economic viability. In addition, partnerships between automakers, battery manufacturers, and recycling companies are creating vertically

integrated ecosystems that strengthen resource security and supply chain sustainability. Government subsidies, regulatory mandates, and extended producer responsibility policies are also stimulating industry investment.

However, the market faces several risks and challenges. Recycling lithium-ion batteries remains technologically complex and capital intensive compared with traditional lead-acid battery recycling. The variability of battery chemistries, formats, and designs complicates automated disassembly and material recovery processes. Safety concerns associated with transportation and handling of used batteries also require specialized logistics and regulatory compliance. Furthermore, fluctuations in metal prices can significantly influence recycling profitability, particularly for lithium and cobalt. In some regions, informal or unregulated recycling operations still exist, posing environmental and health risks and creating competitive distortions for regulated recycling facilities.

Looking forward, several key market trends are shaping the automotive battery recycling industry. Closed-loop battery manufacturing systems are becoming increasingly important, enabling recycled materials to be directly reused in new batteries. Technological advancements are improving recovery rates and lowering processing costs for lithium-ion batteries. Large-scale recycling facilities are being developed near battery gigafactories to reduce transportation costs and improve supply chain efficiency. In addition, digital tracking technologies and battery passports are emerging to improve traceability of battery materials throughout their lifecycle. Second-life battery applications, such as stationary energy storage systems, may delay recycling but also create additional value streams before final material recovery.

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

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

### **Highlights and key features of the study**

Global Automotive Battery Recycling total market, 2021-2032, (USD Million)

Global Automotive Battery Recycling total market by region & country, CAGR,

2021-2032, (USD Million)

U.S. VS China: Automotive Battery Recycling total market, key domestic companies, and share, (USD Million)

Global Automotive Battery Recycling revenue by player, revenue and market share 2021-2026, (USD Million)

Global Automotive Battery Recycling total market by Type, CAGR, 2021-2032, (USD Million)

Global Automotive Battery Recycling total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Automotive 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, Jiangxi Green Recycling Co., Ltd., Beijing Saidemei Resource Recycling Research Institute Co., Ltd., Ganfeng Lithium Group Co., Ltd., SK Tes, Glencore Plc Li-Cycle, Guangdong Guanghua Sci-Tech Co., Ltd., ACCUREC Recycling GmbH, Ecobat, Snam Groupe, 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 Automotive Battery Recycling market

### **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 Automotive Battery Recycling Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Automotive Battery Recycling Market, Segmentation by Type:

Recycling Reuse

Cascade Utilization

#### Global Automotive Battery Recycling Market, Segmentation by Battery Chemistry:

Lead-Acid Recycling

Lithium-Ion Recycling

Nickel-Metal Hydride Recycling

Nickel-Cadmium Recycling

#### Global Automotive Battery Recycling Market, Segmentation by Recycling Process Technology:

Pyrometallurgical Recycling

Hydrometallurgical Recycling

Mechanical Recycling

Direct Regeneration Recycling

Global Automotive Battery Recycling Market, Segmentation by Application:

BEV

PHEV

Companies Profiled:

Umicore

Jiangxi Green Recycling Co., Ltd.

Beijing Saidemei Resource Recycling Research Institute Co., Ltd.

Ganfeng Lithium Group Co., Ltd.

SK Tes

Glencore Plc Li-Cycle

Guangdong Guanghua Sci-Tech Co., Ltd.

ACCUREC Recycling GmbH

Ecobat

Snam Groupe

CATL (Brunp Cycle)

Tianqi automation engineering Limited

## Camel Group

### Key Questions Answered

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

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