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Global Automotive Battery Recycling Market Size Study & Forecast, by Chemistry (Lead Acid, Nickel, Lithium), By Application (Extraction of Materials, Disposal, Repackaging and Reuse), By Product (Ternary Lithium Battery, Lithium Iron Phosphate Battery, Nimh Batteries) and Regional Forecasts 2025-2035

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Abstracts

The Global Automotive Battery Recycling Market was valued at approximately USD 23.7 billion in 2025 and is projected to expand at a compelling CAGR of 10.60% across the forecast period of 2025–2035, with historical data captured for 2023 and 2025 and 2025 positioned as the base year for estimation. Automotive battery recycling refers to the systematic recovery and reprocessing of end-of-life vehicle batteries in order to extract reusable metals and materials while mitigating environmental hazards. As the global automotive ecosystem pivots toward electrification and sustainability, recycling has evolved from a compliance-driven activity into a strategic pillar that underpins circular economy models, resource security, and long-term cost optimization for manufacturers and governments alike.

The market’s upward trajectory is being carried forward by the rapid proliferation of electric vehicles, tightening environmental regulations, and growing concerns around raw material scarcity. Governments and industry stakeholders are scaling up recycling infrastructures to reduce dependency on virgin mining while simultaneously lowering carbon footprints across the battery value chain. Advances in hydrometallurgical and pyrometallurgical recycling technologies are further pushing efficiency thresholds higher, allowing recyclers to unlock greater material recovery rates. Despite operational complexities and capital-intensive setups, the economic and environmental rationale

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behind battery recycling continues to pull sustained investments into the sector throughout the 2025–2035 horizon.

The detailed segments and sub-segments included in the report are:

By Chemistry:

Lead Acid

Nickel

Lithium

By Application:

Extraction of Materials

Disposal

Repackaging and Reuse

By Product:

Ternary Lithium Battery

Lithium Iron Phosphate Battery

Nimh Batteries

By Region:

North America

U.S.

Canada

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Europe

- UK
- Germany
- France
- Spain
- Italy
- Rest of Europe

Asia Pacific

- China
- India
- Japan
- Australia
- South Korea
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico

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Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Lead-acid battery recycling is expected to dominate the market in terms of volume and operational maturity over the forecast period. This dominance is underpinned by the long-established recycling ecosystem for lead-acid batteries, particularly in conventional vehicles and commercial fleets. High collection rates, well-defined regulatory frameworks, and relatively lower technological barriers continue to push this segment ahead. While newer chemistries are gaining ground, lead-acid batteries remain deeply entrenched in the automotive aftermarket, ensuring their sustained relevance in recycling streams.

From a revenue standpoint, lithium-based battery recycling currently leads the market, driven by the accelerating adoption of electric vehicles and the high intrinsic value of recovered materials such as lithium, cobalt, and nickel. Lithium-ion recycling commands premium pricing due to complex processing requirements and strategic importance to EV supply chains. Although nickel-based batteries occupy a comparatively smaller share, ongoing innovations and niche applications are gradually pulling this segment forward, reinforcing a diversified yet lithium-centric revenue landscape.

Regionally, Asia Pacific holds a prominent position in the Global Automotive Battery Recycling Market, supported by massive vehicle production volumes, aggressive EV adoption, and strong government-led sustainability initiatives, particularly in China. Europe follows closely, propelled by stringent end-of-life vehicle directives and advanced recycling mandates that compel automakers to close the materials loop. North America remains a significant contributor, driven by rising EV penetration and increasing investments in domestic recycling capacity to strengthen supply chain resilience. Meanwhile, Latin America and the Middle East & Africa are emerging markets where regulatory evolution and infrastructure development are expected to unlock steady growth opportunities over the coming decade.

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Major market players included in this report are:

Umicore S.A.

Glencore plc

Exide Industries Ltd.

Ecobat

Call2Recycle, Inc.

Ganfeng Lithium Co., Ltd.

Li-Cycle Holdings Corp.

Retriev Technologies

BATREC Industrie AG

Aqua Metals, Inc.

Johnson Controls International plc

SungEel HiTech

American Battery Technology Company

Gravita India Limited

Neometals Ltd.

Global Automotive Battery Recycling Market Report Scope:

Historical Data – 2023, 2025

Base Year for Estimation – 2025

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Forecast period – 2025–2035

Report Coverage – Revenue Forecast, Company Ranking, Competitive Landscape, Growth Factors, and Trends

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

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

The objective of the study is to define the market sizes of different segments and countries in recent years and to forecast their values for the coming years. The report is designed to blend qualitative insights with quantitative rigor, capturing regulatory dynamics, technological shifts, and competitive strategies shaping the industry's future. It further highlights investment pockets across micro-markets, evaluates challenges and growth catalysts, and presents a comprehensive analysis of the competitive landscape and product portfolios of key participants operating within the global automotive battery recycling ecosystem.

Key Takeaways:

Market estimates and forecasts spanning 10 years from 2025 to 2035.

Annualized revenue analysis with regional- and segment-level insights.

In-depth geographical assessment with country-level market evaluation.

Detailed competitive landscape profiling leading market participants.

Strategic analysis of key business initiatives and future market approaches.

Evaluation of the competitive structure of the market.

Comprehensive demand-side and supply-side analysis to support strategic decision-making.

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