

Global EV Battery Recycling Market Size Study & Forecast, by Vehicle Type (Passenger Car, Commercial Vehicle), by Battery Type (Lithium-ion, Lead-acid, Nickel, Others) and Regional Forecasts 2025-2035

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Abstracts

The Global EV Battery Recycling Market was valued at approximately USD 0.5 billion in 2024 and is poised to expand at a robust CAGR of 21.2% over the forecast period from 2025 to 2035. As electric mobility continues to scale up across global markets, the issue of end-of-life battery management has moved from a back-end concern to a strategic imperative. EV battery recycling refers to the systematic recovery of valuable materials such as lithium, cobalt, nickel, and manganese from spent batteries, allowing them to be reintroduced into the production cycle. This closed-loop approach not only reduces environmental burden but also addresses growing concerns around raw material scarcity and supply chain volatility. Accelerating EV adoption, tightening environmental regulations, and sustainability-driven corporate strategies are collectively propping up market momentum.

The sharp rise in electric vehicle penetration has directly translated into a swelling volume of retired batteries, thereby pushing demand for advanced recycling solutions. Governments across major economies are rolling out extended producer responsibility (EPR) frameworks, compelling automakers and battery manufacturers to take accountability for battery disposal and reuse. At the same time, volatile prices of critical battery metals have nudged stakeholders to double down on recycling as a cost-mitigation strategy. Technological breakthroughs in separation efficiency and material recovery rates are further sweetening the business case. However, high initial capital requirements and inconsistent recycling infrastructure across developing regions continue to temper market expansion during the early phases of the forecast period.

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

By Vehicle Type:

Passenger Car

Commercial Vehicle

By Battery Type:

Lithium-ion

Lead-acid

Nickel

Others

By Process:

Pyrometallurgical

Hydrometallurgical

By Region:

North America

U.S.

Canada

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

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Passenger cars are expected to dominate the EV battery recycling landscape, accounting for the largest share of recycled battery volumes. This dominance stems from the sheer scale of passenger EV deployment across urban centers and consumer markets worldwide. As early-generation electric cars reach retirement age, recycling streams from this segment are set to multiply rapidly. Moreover, regulatory pressure on automakers to recover battery materials has sharpened focus on passenger vehicle batteries, given their standardized formats and comparatively easier dismantling processes. While commercial vehicles generate higher-capacity batteries, their slower fleet turnover places passenger cars firmly at the forefront of volume-driven dominance.

From a revenue standpoint, lithium-ion batteries currently lead the market, commanding the largest share of value generated across recycling operations. Lithium-ion chemistries dominate modern EV architectures due to their high energy density and performance efficiency, which in turn makes their recycled materials highly valuable. Hydrometallurgical processes, frequently paired with lithium-ion recycling, are gaining preference for their higher recovery rates and lower environmental footprint. Although lead-acid batteries maintain relevance in hybrid and auxiliary applications, lithium-ion batteries remain the primary revenue engine, with ongoing innovation accelerating cost efficiencies and commercial scalability.

The regional dynamics of the Global EV Battery Recycling Market reflect varying stages of EV ecosystem maturity. North America holds a significant share, supported by stringent environmental policies, early EV adoption, and growing investments in domestic battery supply chains. Europe follows closely, driven by aggressive carbon-neutral targets, well-established recycling regulations, and strong circular economy initiatives. Asia Pacific is anticipated to be the fastest-growing region throughout the forecast period, propelled by massive EV production volumes in China, expanding battery manufacturing capacity, and government-backed recycling mandates. These regional forces collectively underscore a global shift toward sustainable electrification.

Major market players included in this report are:

Umicore

Contemporary Amperex Technology Co. Limited (CATL)

Li-Cycle Holdings Corp.

Redwood Materials

Glencore

Ganfeng Lithium Group

BASF SE

Sumitomo Metal Mining

SungEel HiTech

Aqua Metals

American Battery Technology Company

Recupyl

Duesenfeld GmbH

Neometals Ltd.

Veolia Environnement S.A.

Global EV Battery Recycling Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

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 market sizes of different segments and countries in recent years and to project their value trajectories over the coming decade. The report weaves together qualitative insights and quantitative metrics to present a holistic view of the EV battery recycling ecosystem. It evaluates core growth drivers, structural challenges, and emerging opportunities across micro-markets, while also dissecting competitive positioning and strategic initiatives undertaken by leading players. This integrated approach equips stakeholders with actionable intelligence to navigate an increasingly regulation-driven and sustainability-focused market landscape.

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

Contents

CHAPTER 1. GLOBAL EV BATTERY RECYCLING MARKET REPORT SCOPE & METHODOLOGY

- 1.1. Research Objective
- 1.2. Research Methodology
 - 1.2.1. Forecast Model
 - 1.2.2. Desk Research
 - 1.2.3. Top Down and Bottom-Up Approach
- 1.3. Research Attributes
- 1.4. Scope of the Study
 - 1.4.1. Market Definition
 - 1.4.2. Market Segmentation
- 1.5. Research Assumption
 - 1.5.1. Inclusion & Exclusion
 - 1.5.2. Limitations
 - 1.5.3. Years Considered for the Study

CHAPTER 2. EXECUTIVE SUMMARY

- 2.1. CEO/CXO Standpoint
- 2.2. Strategic Insights
- 2.3. ESG Analysis
- 2.4. key Findings

CHAPTER 3. GLOBAL EV BATTERY RECYCLING MARKET FORCES ANALYSIS

- 3.1. Market Forces Shaping The Global EV Battery Recycling Market (2024-2035)
- 3.2. Drivers
 - 3.2.1. Accelerating EV adoption
 - 3.2.2. tightening environmental regulations
- 3.3. Restraints
 - 3.3.1. high initial capital requirements
- 3.4. Opportunities
 - 3.4.1. Growing sustainability-driven corporate strategies

CHAPTER 4. GLOBAL EV BATTERY RECYCLING INDUSTRY ANALYSIS

- 4.1. Porter's 5 Forces Model
 - 4.1.1. Bargaining Power of Buyer
 - 4.1.2. Bargaining Power of Supplier
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry
- 4.2. Porter's 5 Force Forecast Model (2024-2035)
- 4.3. PESTEL Analysis
 - 4.3.1. Political
 - 4.3.2. Economical
 - 4.3.3. Social
 - 4.3.4. Technological
 - 4.3.5. Environmental
 - 4.3.6. Legal
- 4.4. Top Investment Opportunities
- 4.5. Top Winning Strategies (2025)
- 4.6. Market Share Analysis (2024-2025)
- 4.7. Global Pricing Analysis And Trends 2025
- 4.8. Analyst Recommendation & Conclusion

CHAPTER 5. GLOBAL EV BATTERY RECYCLING MARKET SIZE & FORECASTS BY VEHICLE TYPE 2025-2035

- 5.1. Market Overview
- 5.2. Global EV Battery Recycling Market Performance - Potential Analysis (2025)
- 5.3. Passenger Car
 - 5.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 5.3.2. Market size analysis, by region, 2025-2035
- 5.4. Commercial vehicle
 - 5.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 5.4.2. Market size analysis, by region, 2025-2035

CHAPTER 6. GLOBAL EV BATTERY RECYCLING MARKET SIZE & FORECASTS BY BATTERY TYPE 2025-2035

- 6.1. Market Overview
- 6.2. Global EV Battery Recycling Market Performance - Potential Analysis (2025)
- 6.3. Lithium Ion
 - 6.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035

- 6.3.2. Market size analysis, by region, 2025-2035
- 6.4. Lead Acid
 - 6.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 6.4.2. Market size analysis, by region, 2025-2035
- 6.5. Nickel
 - 6.5.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 6.5.2. Market size analysis, by region, 2025-2035
- 6.6. Others
 - 6.6.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 6.6.2. Market size analysis, by region, 2025-2035

CHAPTER 7. GLOBAL EV BATTERY RECYCLING MARKET SIZE & FORECASTS BY PROCESS 2025–2035

- 7.1. Market Overview
- 7.2. Global EV Battery Recycling Market Performance - Potential Analysis (2025)
- 7.3. Pyrometallurgical
 - 7.3.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 7.3.2. Market size analysis, by region, 2025-2035
- 7.4. Hydrometallurgical
 - 7.4.1. Top Countries Breakdown Estimates & Forecasts, 2024-2035
 - 7.4.2. Market size analysis, by region, 2025-2035

CHAPTER 8. GLOBAL EV BATTERY RECYCLING MARKET SIZE & FORECASTS BY REGION 2025–2035

- 8.1. Growth EV Battery Recycling Market, Regional Market Snapshot
- 8.2. Top Leading & Emerging Countries
- 8.3. North America EV Battery Recycling Market
 - 8.3.1. U.S. EV Battery Recycling Market
 - 8.3.1.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.3.1.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.3.1.3. Process breakdown size & forecasts, 2025-2035
 - 8.3.2. Canada EV Battery Recycling Market
 - 8.3.2.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.3.2.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.3.2.3. Process breakdown size & forecasts, 2025-2035
- 8.4. Europe EV Battery Recycling Market
 - 8.4.1. UK EV Battery Recycling Market

- 8.4.1.1. Vehicle Type breakdown size & forecasts, 2025-2035
- 8.4.1.2. Battery Type breakdown size & forecasts, 2025-2035
- 8.4.1.3. Process breakdown size & forecasts, 2025-2035
- 8.4.2. Germany EV Battery Recycling Market
 - 8.4.2.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.4.2.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.4.2.3. Process breakdown size & forecasts, 2025-2035
- 8.4.3. France EV Battery Recycling Market
 - 8.4.3.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.4.3.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.4.3.3. Process breakdown size & forecasts, 2025-2035
- 8.4.4. Spain EV Battery Recycling Market
 - 8.4.4.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.4.4.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.4.4.3. Process breakdown size & forecasts, 2025-2035
- 8.4.5. Italy EV Battery Recycling Market
 - 8.4.5.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.4.5.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.4.5.3. Process breakdown size & forecasts, 2025-2035
- 8.4.6. Rest of Europe EV Battery Recycling Market
 - 8.4.6.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.4.6.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.4.6.3. Process breakdown size & forecasts, 2025-2035
- 8.5. Asia Pacific EV Battery Recycling Market
 - 8.5.1. China EV Battery Recycling Market
 - 8.5.1.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.5.1.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.5.1.3. Process breakdown size & forecasts, 2025-2035
 - 8.5.2. India EV Battery Recycling Market
 - 8.5.2.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.5.2.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.5.2.3. Process breakdown size & forecasts, 2025-2035
 - 8.5.3. Japan EV Battery Recycling Market
 - 8.5.3.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.5.3.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.5.3.3. Process breakdown size & forecasts, 2025-2035
 - 8.5.4. Australia EV Battery Recycling Market
 - 8.5.4.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.5.4.2. Battery Type breakdown size & forecasts, 2025-2035

- 8.5.4.3. Process breakdown size & forecasts, 2025-2035
- 8.5.5. South Korea EV Battery Recycling Market
 - 8.5.5.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.5.5.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.5.5.3. Process breakdown size & forecasts, 2025-2035
- 8.5.6. Rest of APAC EV Battery Recycling Market
 - 8.5.6.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.5.6.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.5.6.3. Process breakdown size & forecasts, 2025-2035
- 8.6. Latin America EV Battery Recycling Market
 - 8.6.1. Brazil EV Battery Recycling Market
 - 8.6.1.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.6.1.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.6.1.3. Process breakdown size & forecasts, 2025-2035
 - 8.6.2. Mexico EV Battery Recycling Market
 - 8.6.2.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.6.2.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.6.2.3. Process breakdown size & forecasts, 2025-2035
- 8.7. Middle East and Africa EV Battery Recycling Market
 - 8.7.1. UAE EV Battery Recycling Market
 - 8.7.1.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.7.1.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.7.1.3. Process breakdown size & forecasts, 2025-2035
 - 8.7.2. Saudi Arabia (KSA) EV Battery Recycling Market
 - 8.7.2.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.7.2.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.7.2.3. Process breakdown size & forecasts, 2025-2035
 - 8.7.3. South Africa EV Battery Recycling Market
 - 8.7.3.1. Vehicle Type breakdown size & forecasts, 2025-2035
 - 8.7.3.2. Battery Type breakdown size & forecasts, 2025-2035
 - 8.7.3.3. Process breakdown size & forecasts, 2025-2035

CHAPTER 9. COMPETITIVE INTELLIGENCE

- 9.1. Top Market Strategies
- 9.2. Umicore
 - 9.2.1. Company Overview
 - 9.2.2. Key Executives
 - 9.2.3. Company Snapshot

- 9.2.4. Financial Performance (Subject to Data Availability)
- 9.2.5. Product/Services Port
- 9.2.6. Recent Development
- 9.2.7. Market Strategies
- 9.2.8. SWOT Analysis
- 9.3. Contemporary Amperex Technology Co. Limited (CATL)
- 9.4. Li-Cycle Holdings Corp.
- 9.5. Redwood Materials
- 9.6. Glencore
- 9.7. Ganfeng Lithium Group
- 9.8. BASF SE
- 9.9. Sumitomo Metal Mining
- 9.10. SungEel HiTech
- 9.11. Aqua Metals
- 9.12. American Battery Technology Company
- 9.13. Recupyl
- 9.14. Duesenfeld GmbH
- 9.15. Neometals Ltd.
- 9.16. Veolia Environnement S.A.

List Of Tables

LIST OF TABLES

Table 1. Global EV Battery Recycling Market, Report Scope
Table 2. Global EV Battery Recycling Market Estimates & Forecasts By Region 2024–2035
Table 3. Global EV Battery Recycling Market Estimates & Forecasts By Segment 2024–2035
Table 4. Global EV Battery Recycling Market Estimates & Forecasts By Segment 2024–2035
Table 5. Global EV Battery Recycling Market Estimates & Forecasts By Segment 2024–2035
Table 6. Global EV Battery Recycling Market Estimates & Forecasts By Segment 2024–2035
Table 7. Global EV Battery Recycling Market Estimates & Forecasts By Segment 2024–2035
Table 8. U.S. EV Battery Recycling Market Estimates & Forecasts, 2024–2035
Table 9. Canada EV Battery Recycling Market Estimates & Forecasts, 2024–2035
Table 10. UK EV Battery Recycling Market Estimates & Forecasts, 2024–2035
Table 11. Germany EV Battery Recycling Market Estimates & Forecasts, 2024–2035
Table 12. France EV Battery Recycling Market Estimates & Forecasts, 2024–2035
Table 13. Spain EV Battery Recycling Market Estimates & Forecasts, 2024–2035
Table 14. Italy EV Battery Recycling Market Estimates & Forecasts, 2024–2035
Table 15. Rest Of Europe EV Battery Recycling Market Estimates & Forecasts, 2024–2035
Table 16. China EV Battery Recycling Market Estimates & Forecasts, 2024–2035
Table 17. India EV Battery Recycling Market Estimates & Forecasts, 2024–2035
Table 18. Japan EV Battery Recycling Market Estimates & Forecasts, 2024–2035
Table 19. Australia EV Battery Recycling Market Estimates & Forecasts, 2024–2035
Table 20. South Korea EV Battery Recycling Market Estimates & Forecasts, 2024–2035

.....

List Of Figures

LIST OF FIGURES

- Fig 1. Global EV Battery Recycling Market, Research Methodology
- Fig 2. Global EV Battery Recycling Market, Market Estimation Techniques
- Fig 3. Global Market Size Estimates & Forecast Methods
- Fig 4. Global EV Battery Recycling Market, Key Trends 2025
- Fig 5. Global EV Battery Recycling Market, Growth Prospects 2024–2035
- Fig 6. Global EV Battery Recycling Market, Porter's Five Forces Model
- Fig 7. Global EV Battery Recycling Market, Pestel Analysis
- Fig 8. Global EV Battery Recycling Market, Value Chain Analysis
- Fig 9. EV Battery Recycling Market By Application, 2025 & 2035
- Fig 10. EV Battery Recycling Market By Segment, 2025 & 2035
- Fig 11. EV Battery Recycling Market By Segment, 2025 & 2035
- Fig 12. EV Battery Recycling Market By Segment, 2025 & 2035
- Fig 13. EV Battery Recycling Market By Segment, 2025 & 2035
- Fig 14. North America EV Battery Recycling Market, 2025 & 2035
- Fig 15. Europe EV Battery Recycling Market, 2025 & 2035
- Fig 16. Asia Pacific EV Battery Recycling Market, 2025 & 2035
- Fig 17. Latin America EV Battery Recycling Market, 2025 & 2035
- Fig 18. Middle East & Africa EV Battery Recycling Market, 2025 & 2035
- Fig 19. Global EV Battery Recycling Market, Company Market Share Analysis (2025)

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