

Battery Recycling Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global battery recycling market reached a value of US\$ 13.2 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 21.7 Billion by 2027, exhibiting a CAGR of 8.56% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic. These insights are included in the report as a major market contributor.

Battery recycling refers to the process of recycling and reusing batteries to minimize the material waste generated from the industries. Batteries contain toxic chemicals and heavy metals that can contaminate water and soil upon inappropriate dumping. Some of the most commonly recycled battery types include lead-acid, nickel-cadmium (Ni-Cd), nickel-metal hydride (Ni-MH), lithium-ion (Li-ion) and nickel-zinc (Ni-Zn). The recycling process involves collecting, crushing, sorting and sieving metals from plastic, followed by hydro-metallurgical and pyro-metallurgical processes to neutralize and reuse the acid to manufacture new batteries.

A significant increase in the demand for hybrid and electric vehicles (EVs) across the globe is one of the key factors driving the growth of the market. This has significantly enhanced the demand for various compounds, such as cobalt and lithium, which are used in the ignition system of automobiles. In line with this, limited availability of the raw materials to produce lithium-ion batteries has further encouraged the recycling of discarded batteries obtained from various industries. Furthermore, the implementation of stringent government regulations to minimize environmental hazards associated with the disposal of batteries is also providing a boost to the market. In addition to this, increasing utilization of recycled batteries in the manufacturing of various consumer

electronics is acting as another major growth-inducing factor. Recycled batteries are commonly used to produce smartphones, power tools, laptops, gaming consoles and remote-control units. Other factors, including rapid industrialization and rising concerns over environment conservation among the masses, are projected to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global battery recycling market, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on type, source, end-use and material.

Breakup by Type:

- Lead-acid Batteries
- Nickel-based Batteries
- Lithium-based Batteries
- Others

Breakup by Source:

- Industrial
- Automotive
- Consumer Products
- Electronic Appliances
- Others

Breakup by End-Use:

- Reuse
- Repackaging
- Extraction
- Others

Breakup by Material:

- Manganese
- Iron
- Lithium

Nickel
Cobalt
Lead
Aluminium
Others

Breakup by Region:

North America
United States
Canada
Asia Pacific
China
Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined with some of the key players being Accurec Recycling GmbH, Aqua Metals, Battery Solutions, Call2recycle Inc., Eco-Bat Technologies, EnerSys, Exide Technologies, G. & P. Batteries Limited, Gravita India Limited, Johnson Controls, Retrie Technologies Inc., Umicore, etc.

Key Questions Answered in This Report:

How has the global battery recycling market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global battery recycling market ?

What are the key regional markets?

What is the breakup of the market based on the type?

What is the breakup of the market based on the source?

What is the breakup of the market based on the end-use?

What is the breakup of the market based on the material?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global battery recycling market and who are the key players?

What is the degree of competition in the industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL BATTERY RECYCLING MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

6 MARKET BREAKUP BY TYPE

- 6.1 Lead-acid Batteries
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 Nickel-based Batteries
 - 6.2.1 Market Trends
 - 6.2.2 Market Forecast
- 6.3 Lithium-based Batteries

- 6.3.1 Market Trends
- 6.3.2 Market Forecast
- 6.4 Others
 - 6.4.1 Market Trends
 - 6.4.2 Market Forecast

7 MARKET BREAKUP BY SOURCE

- 7.1 Industrial
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Automotive
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Consumer Products
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast
- 7.4 Electronic Appliances
 - 7.4.1 Market Trends
 - 7.4.2 Market Forecast
- 7.5 Others
 - 7.5.1 Market Trends
 - 7.5.2 Market Forecast

8 MARKET BREAKUP BY END-USE

- 8.1 Reuse
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Repackaging
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 Extraction
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Others
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast

9 MARKET BREAKUP BY MATERIAL

9.1 Manganese

9.1.1 Market Trends

9.1.2 Market Forecast

9.2 Iron

9.2.1 Market Trends

9.2.2 Market Forecast

9.3 Lithium

9.3.1 Market Trends

9.3.2 Market Forecast

9.4 Nickel

9.4.1 Market Trends

9.4.2 Market Forecast

9.5 Cobalt

9.5.1 Market Trends

9.5.2 Market Forecast

9.6 Lead

9.6.1 Market Trends

9.6.2 Market Forecast

9.7 Aluminium

9.7.1 Market Trends

9.7.2 Market Forecast

9.8 Others

9.8.1 Market Trends

9.8.2 Market Forecast

10 MARKET BREAKUP BY REGION

10.1 North America

10.1.1 United States

10.1.1.1 Market Trends

10.1.1.2 Market Forecast

10.1.2 Canada

10.1.2.1 Market Trends

10.1.2.2 Market Forecast

10.2 Asia Pacific

10.2.1 China

10.2.1.1 Market Trends

- 10.2.1.2 Market Forecast
- 10.2.2 Japan
 - 10.2.2.1 Market Trends
 - 10.2.2.2 Market Forecast
- 10.2.3 India
 - 10.2.3.1 Market Trends
 - 10.2.3.2 Market Forecast
- 10.2.4 South Korea
 - 10.2.4.1 Market Trends
 - 10.2.4.2 Market Forecast
- 10.2.5 Australia
 - 10.2.5.1 Market Trends
 - 10.2.5.2 Market Forecast
- 10.2.6 Indonesia
 - 10.2.6.1 Market Trends
 - 10.2.6.2 Market Forecast
- 10.2.7 Others
 - 10.2.7.1 Market Trends
 - 10.2.7.2 Market Forecast
- 10.3 Europe
 - 10.3.1 Germany
 - 10.3.1.1 Market Trends
 - 10.3.1.2 Market Forecast
 - 10.3.2 France
 - 10.3.2.1 Market Trends
 - 10.3.2.2 Market Forecast
 - 10.3.3 United Kingdom
 - 10.3.3.1 Market Trends
 - 10.3.3.2 Market Forecast
 - 10.3.4 Italy
 - 10.3.4.1 Market Trends
 - 10.3.4.2 Market Forecast
 - 10.3.5 Spain
 - 10.3.5.1 Market Trends
 - 10.3.5.2 Market Forecast
 - 10.3.6 Russia
 - 10.3.6.1 Market Trends
 - 10.3.6.2 Market Forecast
 - 10.3.7 Others

10.3.7.1 Market Trends

10.3.7.2 Market Forecast

10.4 Latin America

10.4.1 Brazil

10.4.1.1 Market Trends

10.4.1.2 Market Forecast

10.4.2 Mexico

10.4.2.1 Market Trends

10.4.2.2 Market Forecast

10.4.3 Others

10.4.3.1 Market Trends

10.4.3.2 Market Forecast

10.5 Middle East and Africa

10.5.1 Market Trends

10.5.2 Market Breakup by Country

10.5.3 Market Forecast

11 SWOT ANALYSIS

11.1 Overview

11.2 Strengths

11.3 Weaknesses

11.4 Opportunities

11.5 Threats

12 VALUE CHAIN ANALYSIS

13 PORTERS FIVE FORCES ANALYSIS

13.1 Overview

13.2 Bargaining Power of Buyers

13.3 Bargaining Power of Suppliers

13.4 Degree of Competition

13.5 Threat of New Entrants

13.6 Threat of Substitutes

14 PRICE INDICATORS

15 COMPETITIVE LANDSCAPE

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players
 - 15.3.1 Accurec Recycling GmbH
 - 15.3.1.1 Company Overview
 - 15.3.1.2 Product Portfolio
 - 15.3.1.3 Financials
 - 15.3.2 Aqua Metals
 - 15.3.2.1 Company Overview
 - 15.3.2.2 Product Portfolio
 - 15.3.3 Battery Solutions
 - 15.3.3.1 Company Overview
 - 15.3.3.2 Product Portfolio
 - 15.3.4 Call2Recycle Inc.
 - 15.3.4.1 Company Overview
 - 15.3.4.2 Product Portfolio
 - 15.3.5 Eco-Bat Technologies
 - 15.3.5.1 Company Overview
 - 15.3.5.2 Product Portfolio
 - 15.3.5.3 Financials
 - 15.3.6 Enersys
 - 15.3.6.1 Company Overview
 - 15.3.6.2 Product Portfolio
 - 15.3.7 Exide Technologies
 - 15.3.7.1 Company Overview
 - 15.3.7.2 Product Portfolio
 - 15.3.7.4 SWOT Analysis
 - 15.3.8 G. & P. Batteries Limited
 - 15.3.8.1 Company Overview
 - 15.3.8.2 Product Portfolio
 - 15.3.8.3 Financials
 - 15.3.9 Gravita India Limited
 - 15.3.9.1 Company Overview
 - 15.3.9.2 Product Portfolio
 - 15.3.10 Johnson Controls
 - 15.3.10.1 Company Overview
 - 15.3.10.2 Product Portfolio
 - 15.3.10.3 Financials

15.3.11 Retriev Technologies Inc.

15.3.11.1 Company Overview

15.3.11.2 Product Portfolio

15.3.12 Umicore

15.3.12.1 Company Overview

15.3.12.2 Product Portfolio

15.3.12.3 Financials

15.3.12.4 SWOT Analysis

List Of Tables

LIST OF TABLES

Table 1: Global: Battery Recycling Market: Key Industry Highlights, 2021 and 2027

Table 2: Global: Battery Recycling Market Forecast: Breakup by Type (in Million US\$), 2022-2027

Table 3: Global: Battery Recycling Market Forecast: Breakup by Source (in Million US\$), 2022-2027

Table 4: Global: Battery Recycling Market Forecast: Breakup by End-Use (in Million US\$), 2022-2027

Table 5: Global: Battery Recycling Market Forecast: Breakup by Material (in Million US\$), 2022-2027

Table 6: Global: Battery Recycling Market Forecast: Breakup by Region (in Million US\$), 2022-2027

Table 7: Global: Battery Recycling Market: Competitive Structure

Table 8: Global: Battery Recycling Market: Key Players

List Of Figures

LIST OF FIGURES

Figure 1: Global: Battery Recycling Market: Major Drivers and Challenges

Figure 2: Global: Battery Recycling Market: Sales Value (in Billion US\$), 2016-2021

Figure 3: Global: Battery Recycling Market: Breakup by Type (in %), 2021

Figure 4: Global: Battery Recycling Market: Breakup by Source (in %), 2021

Figure 5: Global: Battery Recycling Market: Breakup by End-Use (in %), 2021

Figure 6: Global: Battery Recycling Market: Breakup by Material (in %), 2021

Figure 7: Global: Battery Recycling Market: Breakup by Region (in %), 2021

Figure 8: Global: Battery Recycling Market Forecast: Sales Value (in Billion US\$), 2022-2027

Figure 9: Global: Battery Recycling (Lead-acid Batteries) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 10: Global: Battery Recycling (Lead-acid Batteries) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 11: Global: Battery Recycling (Nickel-based Batteries) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 12: Global: Battery Recycling (Nickel-based Batteries) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 13: Global: Battery Recycling (Lithium-based Batteries) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 14: Global: Battery Recycling (Lithium-based Batteries) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 15: Global: Battery Recycling (Others) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 16: Global: Battery Recycling (Others) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 17: Global: Battery Recycling (Industrial) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 18: Global: Battery Recycling (Industrial) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 19: Global: Battery Recycling (Automotive) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 20: Global: Battery Recycling (Automotive) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 21: Global: Battery Recycling (Consumer Products) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 22: Global: Battery Recycling (Consumer Products) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 23: Global: Battery Recycling (Electronic Appliances) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 24: Global: Battery Recycling (Electronic Appliances) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 25: Global: Battery Recycling (Others) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 26: Global: Battery Recycling (Others) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 27: Global: Battery Recycling (Reuse) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 28: Global: Battery Recycling (Reuse) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 29: Global: Battery Recycling (Repackaging) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 30: Global: Battery Recycling (Repackaging) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 31: Global: Battery Recycling (Extraction) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 32: Global: Battery Recycling (Extraction) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 33: Global: Battery Recycling (Others) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 34: Global: Battery Recycling (Others) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 35: Global: Battery Recycling (Manganese) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 36: Global: Battery Recycling (Manganese) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 37: Global: Battery Recycling (Iron) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 38: Global: Battery Recycling (Iron) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 39: Global: Battery Recycling (Lithium) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 40: Global: Battery Recycling (Lithium) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 41: Global: Battery Recycling (Nickel) Market: Sales Value (in Million US\$), 2016

& 2021

Figure 42: Global: Battery Recycling (Nickel) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 43: Global: Battery Recycling (Cobalt) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 44: Global: Battery Recycling (Cobalt) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 45: Global: Battery Recycling (Lead) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 46: Global: Battery Recycling (Lead) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 47: Global: Battery Recycling (Aluminium) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 48: Global: Battery Recycling (Aluminium) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 49: Global: Battery Recycling (Others) Market: Sales Value (in Million US\$), 2016 & 2021

Figure 50: Global: Battery Recycling (Others) Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 51: North America: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 52: North America: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 53: United States: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 54: United States: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 55: Canada: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 56: Canada: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 57: Asia Pacific: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 58: Asia Pacific: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 59: China: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 60: China: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 61: Japan: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 62: Japan: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 63: India: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 64: India: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 65: South Korea: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 66: South Korea: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 67: Australia: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 68: Australia: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 69: Indonesia: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 70: Indonesia: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 71: Others: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 72: Others: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 73: Europe: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 74: Europe: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 75: Germany: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 76: Germany: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 77: France: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 78: France: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 79: United Kingdom: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 80: United Kingdom: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 81: Italy: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 82: Italy: Battery Recycling Market Forecast: Sales Value (in Million US\$), 2022-2027

Figure 83: Spain: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 84: Spain: Battery Recycling Market Forecast: Sales Value (in Million US\$),

2022-2027

Figure 85: Russia: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 86: Russia: Battery Recycling Market Forecast: Sales Value (in Million US\$),
2022-2027

Figure 87: Others: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 88: Others: Battery Recycling Market Forecast: Sales Value (in Million US\$),
2022-2027

Figure 89: Latin America: Battery Recycling Market: Sales Value (in Million US\$), 2016
& 2021

Figure 90: Latin America: Battery Recycling Market Forecast: Sales Value (in Million
US\$), 2022-2027

Figure 91: Brazil: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 92: Brazil: Battery Recycling Market Forecast: Sales Value (in Million US\$),
2022-2027

Figure 93: Mexico: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 94: Mexico: Battery Recycling Market Forecast: Sales Value (in Million US\$),
2022-2027

Figure 95: Others: Battery Recycling Market: Sales Value (in Million US\$), 2016 & 2021

Figure 96: Others: Battery Recycling Market Forecast: Sales Value (in Million US\$),
2022-2027

Figure 97: Middle East and Africa: Battery Recycling Market: Sales Value (in Million
US\$), 2016 & 2021

Figure 98: Middle East and Africa: Battery Recycling Market Forecast: Sales Value (in
Million US\$), 2022-2027

Figure 99: Global: Battery Recycling Industry: SWOT Analysis

Figure 100: Global: Battery Recycling Industry: Value Chain Analysis

Figure 101: Global: Battery Recycling Industry: Porter's Five Forces Analysis

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