

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?

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