

Battery Recycling Market Set to Grow at a 9.14% CAGR from 2024 to 2032

The Battery Recycling Market focuses on the collection, processing and reuse of materials from used batteries to reduce waste and enhance sustainability.

NEW YORK, NY, UNITED STATES, January 16, 2025 /EINPresswire.com/ -- According to a comprehensive research report by Market Research Future (MRFR), The [Battery Recycling Market Information by Chemistry, Processing State, Recycling Process, Material, Application, Source and Region-](#)

Forecast till 2032, The Global Battery Recycling Market is estimated to reach a valuation of USD 54.2 Billion at a CAGR of 9.14% during the forecast period from 2024 to 2032.



Overview of the Battery Recycling Market



Battery recycling market is crucial for sustainable energy transition, reducing waste and promoting reuse."

MRFR

Battery recycling involves the collection, processing, and repurposing of used batteries to recover key components like lithium, cobalt, nickel, and lead. These materials can then be reused in the production of new batteries, reducing the need for virgin resources and minimizing environmental damage. Batteries, especially lithium-ion (Li-ion) batteries, are extensively used in electric vehicles, mobile phones, laptops, and other electronic devices. The

increasing consumption of these devices has driven a surge in battery waste, thereby amplifying the need for efficient recycling practices.

The global battery recycling market is witnessing strong growth due to both regulatory pressure to minimize waste and an increasing awareness about the environmental benefits of recycling. The market is projected to expand as new recycling technologies are developed, making the process more cost-effective and efficient. As of recent years, the growing demand for EVs and energy storage systems, coupled with advances in recycling technologies, has created a positive

outlook for the market.

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Key Players

Call2Recycle, Inc. (US)

Battery Solutions, LLC (US)

Exide Technologies (US)

Umicore (Belgium)

Exide Industries Ltd. (India)

Contemporary Amperex Technology Co. Ltd. (CATL) (China)

GEM Co., Ltd. (China)

EnerSys (US)

Johnson Controls International plc (US)

Aqua Metals, Inc. (US)

Retriev Technologies Inc. (US)

Gravita India Limited (India)

ECOBAT Logistics (UK)

Fortum Oyj (Finland)

Teck Resources Limited (Canada)

American Manganese Inc. (Canada)

Glencore International AG (Switzerland)

TES-AMM Singapore Pte Ltd (Singapore)

RSR Corporation (US)

COM2 Recycling Solutions (US)

East Penn Manufacturing Company, Inc. (US)

The Doe Run Company (US)

Raw Materials Company Inc. (RMC) (Canada)

Neometals Ltd (Australia)

Terrapure Environmental (Canada)

Gopher Resource LLC (US)

Market Dynamics

Drivers of the Battery Recycling Market

Growth in Electric Vehicle (EV) Adoption: One of the primary drivers of the battery recycling market is the rapid growth in the electric vehicle sector. As EVs gain popularity worldwide due to environmental concerns and government incentives, the demand for batteries, particularly lithium-ion batteries, has surged. Consequently, the disposal and recycling of used EV batteries have become a critical issue. Recycling helps mitigate the challenges of sourcing materials for new batteries and reduces the environmental footprint of discarded batteries.

Rising Environmental Awareness: Environmental concerns have driven governments, industries, and consumers to seek sustainable solutions for battery disposal. Proper recycling reduces pollution by preventing toxic chemicals from entering the ecosystem and promotes a circular economy, where materials are reused instead of disposed of in landfills. As a result, stricter regulations are being implemented, further propelling the growth of the battery recycling market.

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Restraints in the Battery Recycling Market

High Recycling Costs: One of the significant challenges in the battery recycling market is the high cost associated with the recycling process. Despite technological advancements, recycling

batteries, particularly lithium-ion batteries, involves complex procedures, which can be expensive. These costs often make recycling less economically viable compared to using raw materials, especially when the market price of recycled materials is volatile.

Lack of Standardized Recycling Practices: Battery recycling practices vary significantly across regions and countries, with no universal standardization for the process. The absence of a globally recognized framework leads to inefficiencies and inconsistencies in recycling processes. Different types of batteries (e.g., lead-acid, nickel-cadmium, lithium-ion) require specific recycling methods, and improper handling can result in environmental harm or unsafe working conditions.

Battery Recycling Market Segment Overview

Battery Recycling By Chemistry

Lead-acid

Lithium-based

Nickel-based

Others

Alkaline

Mercury

Zinc-carbon

Zinc-air

Battery Recycling By Processing State

Extraction of material

Reuse

repackaging

second life

Disposal

Battery Recycling By Recycling Process

Hydrometallurgy

Pyrometallurgy

lead acid battery recycling process

lithium-ion battery recycling process

Battery Recycling By Material

Metals

electrolytes

plastics

others

Battery Recycling By Source

Automotive Batteries

Industrial Batteries

Consumer & Electronic Appliance Batteries

Battery Recycling By Processing State

Extraction of Material

Reuse, Repackaging, & Second Life

Disposal

Battery Recycling By Region

Asia Pacific

North America

Europe

Middle East & Africa

South America

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Regional Analysis

North America

North America is a leading region in the battery recycling market due to its well-established recycling infrastructure, particularly in the United States. The growing adoption of electric vehicles, combined with government initiatives and incentives to promote sustainable recycling, has stimulated the market's expansion in the region. Furthermore, the region has seen investments in research and development for advanced battery recycling technologies, making it one of the leading markets for battery recycling.

In the U.S., the Environmental Protection Agency (EPA) has established regulations to encourage the safe disposal and recycling of batteries, further boosting the market. The market is expected to continue growing as the EV industry expands and energy storage systems become more prevalent.

Europe

Europe is another significant player in the global battery recycling market, driven by stringent regulations and policies aimed at promoting recycling and reducing environmental impact. The European Union (EU) has implemented directives such as the Battery Directive, which sets collection, recycling, and environmental standards for batteries across member states. These regulations have helped create a favorable environment for battery recycling companies to thrive.

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