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Global Recycling of Lead-acid Battery Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Recycling of Lead-acid Battery market size was valued at US$ 961 million in 2025 and is forecast to a readjusted size of US$ 1303 million by 2032 with a CAGR of 3.1% during review period.

Recycling of Lead-acid Battery refers to the process of dismantling, separating, and regenerating failed or discarded lead-acid batteries using physical, chemical, and metallurgical techniques. The core objective is to extract materials such as lead, plastics, and sulfuric acid from the batteries, achieving the dual value of 'resource recycling + pollution control.' The technology encompasses pyrometallurgy, hydrometallurgy, and electrolysis, achieving lead recovery rates exceeding 95%. Plastic casings are recycled through crushing and reused in building materials, while sulfuric acid, after neutralization, is used as an industrial raw material. The industry's gross profit margin is approximately 25-35%.

Almost all parts of a lead-acid battery are recyclable. The recycling process includes battery collection, transportation to recycling plants, disassembling battery components, and smelting and refining lead-containing parts. Plastic components can be cleaned, then crushed or melted for use in manufacturing new products. Sulfuric acid electrolyte can be purified or treated before disposal or recycling.

Market drivers primarily include:

Mandatory policy promotion and subsidy incentives. Many countries globally have legislated mandatory lead-acid battery recycling (such as China's 'Technical Policy for the Prevention and Control of Waste Battery Pollution'), coupled with tax breaks and

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subsidies to reduce recycling costs for companies. For example, the EU's Battery Regulation requires a 70% recycling rate by 2030, forcing companies to establish recycling networks.

Downstream application scenarios continue to expand. The surge in demand for backup power from emerging fields such as 5G base stations and data centers is driving growth in industrial lead-acid battery production; increased renewable energy installations are boosting demand for energy storage battery recycling; and the low-speed electric vehicle market is expanding into third- and fourth-tier cities, further increasing the recycling base.

The deepening of the circular economy concept and cost advantages: Lead-acid batteries have a lower life-cycle cost than lithium batteries (which require 3-4 replacements), and their recycling cost is only one-third that of lithium batteries, making them difficult to replace in cost-sensitive markets (such as backup power and low-speed electric vehicles). Companies are reducing user replacement costs through 'trade-in' models while using recycled lead to stabilize the supply chain, forming a closed loop of 'production-recycling-regeneration'.

This report is a detailed and comprehensive analysis for global Recycling of Lead-acid Battery market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Recycling of Lead-acid Battery market size and forecasts, in consumption value ($ Million), 2021-2032

Global Recycling of Lead-acid Battery market size and forecasts by region and country, in consumption value ($ Million), 2021-2032

Global Recycling of Lead-acid Battery market size and forecasts, by Type and by Application, in consumption value ($ Million), 2021-2032

Global Recycling of Lead-acid Battery market shares of main players, in revenue ($

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Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Recycling of Lead-acid Battery

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Recycling of Lead-acid Battery market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include GEM, Guangdong Brunp(CATL), HPJ, SungEel HiTech, Anhua Taisen Recycling, GHTECH, Retriev Technologies, Batrec, Tes-Amm(Recupyl), Duesenfeld, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Recycling of Lead-acid Battery market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Echelon Utilization

Raw Material Recycling

Market segment by Technology

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Pyrometallurgy

Hydrometallurgy

Electrolysis

Market segment by Functional Category

Resource Recycling Type

Environmentally Friendly Treatment Type

Special Recycling Type

Market segment by Application

Automtive

Digital Electronics

Others

Market segment by players, this report covers

GEM

Guangdong Brunp(CATL)

HPJ

SungEel HiTech

Anhua Taisen Recycling

GHTECH

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Retriev Technologies

Batrec

Tes-Amm(Recupyl)

Duesenfeld

4R Energy Corp

OnTo Technology

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Recycling of Lead-acid Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Recycling of Lead-acid Battery, with revenue, gross margin, and global market share of Recycling of Lead-acid Battery from 2021 to 2026.

Chapter 3, the Recycling of Lead-acid Battery competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

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Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026.and Recycling of Lead-acid Battery market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Recycling of Lead-acid Battery.

Chapter 13, to describe Recycling of Lead-acid Battery research findings and conclusion.

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