

Global Recycling of Lead-acid Battery Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Recycling of Lead-acid Battery market size is predicted to grow from US\$ 913 million in 2025 to US\$ 1253 million in 2032; it is expected to grow at a CAGR of 3.3% from 2026 to 2032.

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 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'.

LPI (LP Information)' newest research report, the "Recycling of Lead-acid Battery Industry Forecast" looks at past sales and reviews total world Recycling of Lead-acid Battery sales in 2025, providing a comprehensive analysis by region and market sector of projected Recycling of Lead-acid Battery sales for 2026 through 2032. With Recycling of Lead-acid Battery sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Recycling of Lead-acid Battery industry.

This Insight Report provides a comprehensive analysis of the global Recycling of Lead-acid Battery landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyses the strategies of leading global companies with a focus on Recycling of Lead-acid Battery portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Recycling of Lead-acid Battery market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Recycling of Lead-acid Battery and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced

view of the current state and future trajectory in the global Recycling of Lead-acid Battery.

This report presents a comprehensive overview, market shares, and growth opportunities of Recycling of Lead-acid Battery market by product type, application, key players and key regions and countries.

Segmentation by Type:

Echelon Utilization

Raw Material Recycling

Segmentation by Technology:

Pyrometallurgy

Hydrometallurgy

Electrolysis

Segmentation by Functional Category:

Resource Recycling Type

Environmentally Friendly Treatment Type

Special Recycling Type

Segmentation by Application:

Automotive

Digital Electronics

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

GEM

Guangdong Brunp(CATL)

HPJ

SungEel HiTech

Anhua Taisen Recycling

GHTECH

Retriev Technologies

Batrec

Tes-Amm(Recupyl)

Duesenfeld

4R Energy Corp

OnTo Technology

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