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Global Recycling of Lead-acid Battery Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Recycling of Lead-acid Battery market size is expected to reach $ 1303 million by 2032, rising at a market growth of 3.1% CAGR during the forecast period (2026-2032).
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

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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 studies the global Recycling of Lead-acid Battery demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Recycling of Lead-acid Battery, and provides market size (US$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Recycling of Lead-acid Battery that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Recycling of Lead-acid Battery total market, 2021-2032, (USD Million)

Global Recycling of Lead-acid Battery total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Recycling of Lead-acid Battery total market, key domestic companies, and share, (USD Million)

Global Recycling of Lead-acid Battery revenue by player, revenue and market share 2021-2026, (USD Million)

Global Recycling of Lead-acid Battery total market by Type, CAGR, 2021-2032, (USD Million)

Global Recycling of Lead-acid Battery total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices

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used in analyzing the world Recycling of Lead-acid Battery market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Recycling of Lead-acid Battery Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Recycling of Lead-acid Battery Market, Segmentation by Type:

Echelon Utilization

Raw Material Recycling

Global Recycling of Lead-acid Battery Market, Segmentation by Technology:

Pyrometallurgy

Hydrometallurgy

Electrolysis

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Global Recycling of Lead-acid Battery Market, Segmentation by Functional Category:

Resource Recycling Type

Environmentally Friendly Treatment Type

Special Recycling Type

Global Recycling of Lead-acid Battery Market, Segmentation by Application:

Automtive

Digital Electronics

Others

Companies Profiled:

GEM

Guangdong Brunp(CATL)

HPJ

SungEel HiTech

Anhua Taisen Recycling

GHTECH

Retriev Technologies

Batrec

Tes-Amm(Recupyl)

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Duesenfeld

4R Energy Corp

OnTo Technology

Key Questions Answered

1. How big is the global Recycling of Lead-acid Battery market?
2. What is the demand of the global Recycling of Lead-acid Battery market?
3. What is the year over year growth of the global Recycling of Lead-acid Battery market?
4. What is the total value of the global Recycling of Lead-acid Battery market?
5. Who are the Major Players in the global Recycling of Lead-acid Battery market?
6. What are the growth factors driving the market demand?

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