

# U.S. Battery Recycling Market Size, Share & Trends Analysis Report By Chemistry (Lithium-ion, Lead acid, Nickel, Cobalt, Manganese), By Application (Transportation, Consumer Electronics, Industrial), And Segment Forecasts, 2025 - 2030

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## Abstracts

The U.S. battery recycling market size was estimated at approximately USD 4.09 billion in 2024 and is projected to reach around USD 25.30 billion by 2030, registering a CAGR of 35.8% between 2025 and 2030. The market is driven by increasing demand for sustainable management of spent batteries, rising adoption of lithium-based chemistries, and stringent environmental regulations promoting responsible battery disposal and recycling.

Growing deployment of lithium thionyl chloride (Li-SOCl<sub>2</sub>) batteries in sectors such as utility metering, defense electronics, industrial automation, and remote monitoring further fuels the need for efficient recycling solutions. The transition toward smart infrastructure, autonomous systems, and digital utility networks supports steady market expansion.

Li-SOCl<sub>2</sub> batteries are critical for low-drain, long-duration applications due to their high energy density, extended operational lifespan, and reliability in extreme environmental conditions. Unlike conventional consumer lithium batteries, they are optimized for applications requiring sustained low power consumption, such as smart meters, SCADA systems, environmental sensors, and asset tracking devices. Technological advancements in bobbin and spiral cell configurations have improved battery performance under continuous and pulse load operations, enhancing their suitability for industrial and defense applications. Strong government initiatives, defense sector procurement, and industrial IoT adoption are expected to drive innovation in battery

recycling infrastructure, ensuring sustained battery recycling market growth in the U.S. throughout the forecast period.

## U.S. Battery Recycling Market Report Segmentation

This report forecasts revenue & volume growth at country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the U.S. battery recycling market report based on chemistry and application:

### Chemistry Outlook (Volume, Tons; Revenue, USD Million, 2018 - 2030)

Lithium-ion

Lead acid

Nickel

Cobalt

Manganese

### Application Outlook (Volume, Tons; Revenue, USD Million, 2018 - 2030)

Transportation

Electric vehicles

Others

Consumer electronics

Industrial

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