

Global Antimony-based Liquid Metal Battery Market Growth (Status and Outlook) 2026-2032

<https://marketpublishers.com/r/GAE285BFB288EN.html>

Date: July 2026

Pages: 74

Price: US\$ 3,660.00 (Single User License)

ID: GAE285BFB288EN

Abstracts

The global Antimony-based Liquid Metal Battery market size is predicted to grow from US\$ 87.75 million in 2025 to US\$ 185 million in 2032; it is expected to grow at a CAGR of 10.6% from 2026 to 2032.

Antimony-based liquid metal batteries are high-temperature electrochemical energy storage devices that use antimony, antimony alloys, or reversible antimony/antimony-oxide redox systems as key active materials. They are typically configured with liquid metal electrodes, molten-salt electrolytes or solid-oxide electrolyte structures, thermal management, battery management systems, cell stacks, and modular or containerized battery systems. The technology is mainly designed for stationary long-duration energy storage, renewable integration, grid balancing, industrial and commercial storage, microgrids, and data center backup applications.

Based on our research, antimony-based liquid metal batteries remain at the transition stage between technology validation and early commercialization. The segment has not yet developed into a scaled battery market comparable to lithium-ion, sodium-sulfur, flow batteries, or iron-air batteries. Its industrial nature is closer to an integrated high-temperature electrochemical platform, combining molten-salt chemistry, antimony-based active materials, thermal management, battery control, and long-duration grid storage applications.

From a demand perspective, the long-term opportunity is driven by rising requirements for four-hour-plus, ten-hour-plus, and even daily energy storage as renewable penetration increases. Policy support for long-duration and new-type energy storage is becoming clearer in both the United States and China, but the first wave of commercial demand is still being captured mainly by lithium-ion, flow batteries, compressed air, iron-

air, and thermal storage solutions. For antimony-based systems to scale, the industry must prove system reliability, reduce engineering complexity, secure antimony supply, and build customer confidence in project financeability. Antimony's strategic-material status and export-control environment may further increase the importance of regional supply chains, upstream resource partnerships, and end-of-life material recovery.

This report presents a comprehensive overview, market shares, and growth opportunities of Antimony-based Liquid Metal Battery market by product type, application, key players and key regions and countries.

Segmentation by Type:

Ca-Sb LMB

Mg-Sb LMB

Segmentation by Specification:

100Ah Grade

200Ah Grade

500Ah Grade

Others

Segmentation by Discharge Duration:

?4 Hours

>4 Hours

Segmentation by Application:

Power Grid

Industrial and Commercial

Others

This report also splits the market by region:

United States

China

Europe

Other regions

Japan

South Korea

Southeast Asia

Rest of world

The report also presents the market competition landscape and a corresponding detailed analysis of the major players in the market. The key players covered in this report:

Ambri

ZHONGTI

Wuhan Jizhao

Henghui Keyuan

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