

Global New Energy Battery Tray Market Growth 2026-2032

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Abstracts

The global New Energy Battery Tray market size is predicted to grow from US\$ 1057 million in 2025 to US\$ 1822 million in 2032; it is expected to grow at a CAGR of 7.9% from 2026 to 2032.

In 2025, global sales of New Energy Battery Tray reached approximately 4.70 million units, with an average market price of about USD 229.79 unit, an annual production capacity of roughly 6.8 million units, and an industry-average gross margin of approximately 20%.

New Energy Battery Tray is structural components used in stationary electrochemical energy storage systems to support, locate, seal, and protect battery modules or battery packs. They are typically positioned at the bottom of the battery pack or integrated into the lower enclosure, working together with covers, frames, cross members, mounting lugs, sealing systems, insulation parts, cooling plates, and coolant channels to form the mechanical and thermal foundation of an ESS battery pack. These products are commonly manufactured through aluminum extrusion and welding, low-pressure casting, die casting, sheet metal fabrication, CNC machining, friction stir welding, MIG welding, laser welding, surface anodizing, coating, and air-tightness testing. Key performance requirements include structural rigidity, dimensional accuracy, load-bearing capacity, IP-rated sealing, corrosion resistance, electrical insulation, thermal uniformity, coolant leakage prevention, and pack-level assembly compatibility. As commercial and industrial storage, utility-scale BESS, energy storage cabinets, containerized energy storage systems, and data-center backup storage move toward higher energy density, liquid cooling, and larger-format battery packs, ESS battery trays are evolving from basic load-bearing parts into integrated functional components combining structural support, thermal management, sealing protection, and

standardized assembly interfaces.

Based on our research, New Energy Battery Tray should be treated as a functional structural component market rather than a generic metal tray market. The correct statistical boundary is centered on pack-level load bearing, sealing, protection, assembly interface, and thermal-management integration. Complete BESS containers, energy storage cabinets, cells, battery packs, BMS, PCS, EMS, and standalone cold plates should be separated from the tray revenue model. From a product-route perspective, earlier ESS pack designs could rely on simpler sheet-metal housings or mechanical support frames. However, as stationary storage systems adopt larger LFP cells, higher energy density, liquid cooling, and standardized 48S/52S/104S pack configurations, the tray and lower enclosure are required to provide higher rigidity, stronger sealing, better insulation, improved thermal uniformity, and more reliable coolant-channel integration. As a result, aluminum extrusion plus friction stir welding, wide and thin extruded plates, integrated liquid-cooled lower housings, low-pressure casting, precision machining, and IP-rated sealing are becoming mainstream manufacturing directions for higher-value products.

From the supply side, confirmed manufacturers with direct ESS battery tray evidence are concentrated in China. The Chinese supplier base benefits from a dense industrial chain covering aluminum casting and extrusion, tooling, welding, CNC machining, surface treatment, air-tightness testing, thermal-management components, and close cooperation with battery pack and ESS integrators. Guangdong, Anhui, Jiangsu, Fujian, Zhejiang, and several other provinces have become the most visible supply clusters. In North America and Europe, the market is more fragmented and often represented by custom sheet-metal fabricators, aluminum extrusion suppliers, EV battery enclosure specialists, and energy equipment fabricators. Many of these companies have relevant capabilities, but direct official evidence for ESS battery trays remains limited; therefore, they are more appropriately retained in the extended longlist or watchlist instead of being forced into the core formal list. This layered approach is necessary because the broader battery enclosure industry is much larger than the narrow ESS tray market.

From the demand side, the main growth drivers are commercial and industrial ESS cabinets, utility-scale liquid-cooled BESS, containerized energy storage systems, and standardized pack platforms used in generation-side, grid-side, and user-side applications. Global battery storage deployment remained strong in 2025, while China and the United States both showed significant incremental storage demand. This supports continued demand for pack housings, liquid-cooled lower enclosures, and tray structures. Nevertheless, the revenue growth of ESS battery trays will not fully match

the growth rate of downstream GWh shipments, because standardization, competitive bidding, and cost-down pressure will continue to reduce average selling prices. Higher-value opportunities will come from liquid-cooled trays, large-cell compatible lower housings, high IP-rating products, overseas certification requirements, and localized supply chains for non-China markets.

The competitive landscape is being reshaped by two groups of entrants. The first group consists of EV battery tray and automotive lightweighting companies moving into ESS pack housings by leveraging existing aluminum welding, extrusion, casting, and customer co-development capabilities. The second group consists of thermal-management, liquid-cooling, and aluminum-profile suppliers upgrading from cold plates or profiles to integrated liquid-cooled lower boxes and pack-level housings. Recent capacity expansion, customer nominations, and acquisition-driven product extension indicate that ESS battery trays are becoming a more independent and investable niche within the energy storage supply chain. Future competition will depend less on basic fabrication cost alone and more on co-design capability, liquid-cooling integration, sealing reliability, yield control, international delivery capability, and the depth of relationships with leading battery and ESS system customers.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for New Energy Battery Tray 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 New Energy Battery Tray.

This report presents a comprehensive overview, market shares, and growth opportunities of New Energy Battery Tray market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Steel Battery Tray

Cast Aluminum Battery Tray

Extruded Aluminum Alloy Battery Tray

Segmentation by Cooling Integration:

Non-cooled Structural Tray

Cold-plate Integrated Tray

Segmentation by Battery Pack Configuration:

48S / 52S Pack Tray

104S and High-voltage Pack Tray

Others

Segmentation by Application:

Commercial and Industrial ESS

Utility-scale BESS

Telecom and UPS Backup

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 analysing the company's coverage, product portfolio, its market penetration.

Guangdong Hoshion Industrial Aluminium Co., Ltd.

Guangdong Walmate Technology Co., Ltd.

Anhui Xinbo Aluminum Co., Ltd.

Yonz Technology Co., Ltd.

Huada Automotive Technology

Changzhou Heatcreate

Fujian Xiangxin New Energy

Anhui Jiujiu Huali

XD Thermal

Nabaichuan New Energy

Shenzhen Covalent

Cardinal MetalWorks

Anhui Shengxin Aluminium

Sichuan FURONG Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global New Energy Battery Tray market?

What factors are driving New Energy Battery Tray market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do New Energy Battery Tray market opportunities vary by end market size?

How does New Energy Battery Tray break out by Type, by Application?

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