

Global Energy Storage Liquid Cooling Plates Market Growth 2026-2032

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Abstracts

The global Energy Storage Liquid Cooling Plates market size is predicted to grow from US\$ 552 million in 2025 to US\$ 1329 million in 2032; it is expected to grow at a CAGR of 14.2% from 2026 to 2032.

Energy storage liquid cooling plates are critical thermal management components used in Battery Energy Storage Systems (BESS). Typically manufactured from aluminum alloys and integrated with internal flow channels, these plates circulate coolant to absorb and transfer heat generated during battery operation. By maintaining temperature uniformity and improving heat dissipation efficiency, liquid cooling plates enhance system safety, battery lifespan, charging/discharging performance, and overall operational reliability. They are widely deployed in utility-scale energy storage plants, commercial and industrial (C&I) energy storage systems, and containerized BESS solutions. As energy storage systems evolve toward higher energy density, larger capacities, and longer service life, liquid cooling technology is increasingly replacing conventional air-cooling methods and becoming the mainstream thermal management solution for next-generation energy storage applications. In 2025, global sales of energy storage liquid-cooled plates will reach 8.057 million units, with an average selling price of US\$70 per unit. The overall gross profit margin of the industry is expected to remain between 20% and 35%. The energy storage liquid cooling plate industry chain mainly consists of upstream raw material and equipment suppliers, midstream liquid-cooled plate manufacturers, and downstream energy storage system integrators and end users. Upstream mainly includes aluminum alloy sheets, aluminum extruded profiles, brazing materials, sealing materials, coolants, and CNC machining equipment, vacuum brazing equipment, and friction stir welding (FSW) equipment. Aluminum alloy materials typically account for more than 40% of the total product cost, making it a significant factor influencing product price. The midstream segment involves liquid-cooled plate

design and manufacturing. Companies produce liquid-cooled plate products using processes such as stamping and welding, vacuum brazing, aluminum extrusion molding, and friction stir welding, and conduct flow channel design, thermal simulation optimization, and reliability verification according to the needs of different energy storage systems. Downstream mainly includes energy storage system integrators, battery manufacturers, and energy storage project developers, such as large-scale grid-side energy storage projects, industrial and commercial energy storage projects, and new energy distribution and storage projects. With the continuous increase in the single-cabinet capacity of energy storage systems and the continuous improvement in the penetration rate of liquid cooling technology, the industry chain is gradually developing towards standardization, high reliability, and low cost. Thermal management performance has become an important component of the competitiveness of energy storage systems.

The growth of the Energy Storage Liquid Cooling Plate market is primarily driven by the global energy transition and the rapid expansion of the energy storage industry. Increasing deployment of renewable energy sources such as wind and solar power has significantly boosted demand for battery energy storage systems. Utility-scale energy storage projects, commercial and industrial storage applications, and renewable energy integration projects require highly efficient thermal management solutions. Compared with conventional air-cooling systems, liquid cooling technologies offer superior heat dissipation performance, better temperature uniformity, lower energy consumption, and enhanced operational safety, resulting in increasing adoption in large-scale energy storage systems exceeding 5MWh. Furthermore, rising battery energy density, longer cycle-life requirements, and stricter safety regulations continue to accelerate market penetration. However, the industry also faces challenges, including fluctuations in aluminum prices, cyclical investment patterns in the energy storage sector, geopolitical and trade uncertainties, and increasing competitive pressure from technological innovation. In addition, vertical integration by major system integrators and battery manufacturers may reduce opportunities for independent cooling plate suppliers. Continuous investment in thermal engineering, manufacturing automation, and cost optimization will remain critical for long-term competitiveness.

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

world Energy Storage Liquid Cooling Plates industry.

This Insight Report provides a comprehensive analysis of the global Energy Storage Liquid Cooling Plates 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 Energy Storage Liquid Cooling Plates portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Energy Storage Liquid Cooling Plates market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Energy Storage Liquid Cooling Plates 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 Energy Storage Liquid Cooling Plates.

This report presents a comprehensive overview, market shares, and growth opportunities of Energy Storage Liquid Cooling Plates market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Brazed Liquid Cooling Plate

Extruded Liquid Cooling Plate

Stamped & Welded Liquid Cooling Plate

Others

Segmentation by Material:

Aluminum Alloy

Copper-Based

Composite Material

Segmentation by Cooling Method:

Single-Phase Liquid Cooling

Two-Phase Liquid Cooling

Segmentation by Application:

Utility-Scale Energy Storage

Commercial & Industrial ESS

Renewable Energy Storage

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.

Eaton(Boyd)

Neklar

Asia Vital Components

Sanhua

Yinlun

Suzhou Ritec Thermal Technology

Shenzhen FRD Science & Technology

Nabochuan New Energy

Shenzhen Envicool Technology

Goaland Energy Conservation Tech

Key Questions Addressed in this Report

What is the 10-year outlook for the global Energy Storage Liquid Cooling Plates market?

What factors are driving Energy Storage Liquid Cooling Plates market growth, globally and by region?

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

How do Energy Storage Liquid Cooling Plates market opportunities vary by end market size?

How does Energy Storage Liquid Cooling Plates break out by Type, by Application?

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