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Global Liquid-cooled Energy Storage System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Liquid-cooled Energy Storage System market size is expected to reach $ 26714 million by 2032, rising at a market growth of 5.9% CAGR during the forecast period (2026-2032).

In 2025, global Liquid-cooled Energy Storage System production reached approximately 248,576 MWh. The average price is about 70 USD/kWh. Liquid-cooled Energy Storage System (ESS) is a type of energy storage system that uses a liquid-based thermal management system to control the temperature of batteries and other heat-generating components during charging and discharging. The system typically circulates coolant through cold plates, cooling channels, pipes, pumps, and heat exchangers positioned close to battery cells or modules, allowing heat to be transferred away more efficiently and evenly than in conventional air-cooled systems.

The Liquid-cooled Energy Storage System market is expanding rapidly as the deployment of large-scale battery storage accelerates across renewable energy integration, grid flexibility, commercial and industrial energy management, microgrids, and backup power applications. Liquid-cooled ESS uses a liquid-based thermal management system to regulate battery temperature, typically circulating coolant through cold plates, cooling channels, pumps, pipes, heat exchangers, and related components positioned close to battery cells or modules. Compared with conventional air-cooled systems, liquid-cooled ESS generally provides higher heat dissipation efficiency, better temperature uniformity, higher energy density, lower auxiliary power consumption, and improved suitability for high-capacity and high-power applications, making it increasingly attractive for utility-scale and large commercial and industrial projects. The upstream industry chain mainly includes battery cells, battery modules, battery management systems (BMS), power conversion systems (PCS), energy

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management systems (EMS), liquid-cooling plates, coolant, pumps, compressors, heat exchangers, piping systems, valves, temperature sensors, thermal interface materials, fire protection equipment, electrical components, structural parts, and control electronics. Battery cells represent a major share of total system cost and play a critical role in determining safety, cycle life, energy density, and overall system economics. The midstream segment mainly consists of battery pack manufacturers, liquid-cooling equipment suppliers, energy storage equipment manufacturers, and system integrators that combine battery racks or cabinets, liquid-cooling units, BMS, PCS, EMS, fire protection, electrical distribution, communication, and monitoring systems into complete storage solutions in cabinet-type, containerized, or other modular configurations. System integrators must optimize coolant circulation, thermal balance, battery arrangement, electrical architecture, safety protection, communication, and control strategies to ensure stable performance under different ambient conditions and operating loads. The downstream market covers power generation-side storage, grid-side storage, renewable energy projects such as solar and wind farms, independent energy storage stations, large commercial and industrial facilities, microgrids, data centers, telecom infrastructure, and other applications requiring efficient and reliable energy storage. In the future, the market is expected to benefit from the continued increase in battery cell capacity, higher system voltage, greater integration density, and growing demand for longer-duration and larger-scale storage projects. Liquid cooling is expected to gain further penetration as higher energy density places greater demands on thermal management and safety. Future development will focus on improving cooling efficiency, reducing temperature differences between cells, lowering auxiliary energy consumption, enhancing thermal runaway detection and fire protection, increasing system integration, and extending battery service life. At the same time, the adoption of larger battery cells, modular liquid-cooling architectures, intelligent BMS algorithms, predictive maintenance, advanced sensors, and digital energy management technologies is expected to improve system reliability and reduce life-cycle costs. As renewable energy penetration continues to rise and power systems require greater flexibility, Liquid-cooled Energy Storage Systems are expected to become an increasingly important solution across utility-scale, commercial and industrial, and other high-density energy storage applications worldwide.

Report Scope

This report studies the global Liquid-cooled Energy Storage System production, demand, key manufacturers, and key regions.

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This report is a detailed and comprehensive analysis of the world market for Liquid-cooled Energy Storage System 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 Liquid-cooled Energy Storage System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Liquid-cooled Energy Storage System total production and demand, 2021-2032, (MWh)

Global Liquid-cooled Energy Storage System total production value, 2021-2032, (USD Million)

Global Liquid-cooled Energy Storage System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MWh), (based on production site)

Global Liquid-cooled Energy Storage System consumption by region & country, CAGR, 2021-2032 & (MWh)

U.S. VS China: Liquid-cooled Energy Storage System domestic production, consumption, key domestic manufacturers and share

Global Liquid-cooled Energy Storage System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MWh)

Global Liquid-cooled Energy Storage System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MWh)

Global Liquid-cooled Energy Storage System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MWh)

This report profiles key players in the global Liquid-cooled Energy Storage System market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include CATL, BYD, EVE, LG, Samsung SDI,

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CALB, Gotion, Great Power, Narada, Pylon Technologies, 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 used in analyzing the World Liquid-cooled Energy Storage System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (MWh) and average price (US$/KWh) by manufacturer, 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 Liquid-cooled Energy Storage System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

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Global Liquid-cooled Energy Storage System Market, Segmentation by Type:

Lithium

Lead Acid

NaS

Other

Global Liquid-cooled Energy Storage System Market, Segmentation by Energy Capacity:

Less Than 10 MWh

10-100 MWh

More Than 100 MWh

Global Liquid-cooled Energy Storage System Market, Segmentation by Energy Source:

Solar Energy Storage

Wind Energy Storage

Other

Global Liquid-cooled Energy Storage System Market, Segmentation by Application:

Behind-the-meter

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Utility-scale

Companies Profiled:

CATL

BYD

EVE

LG

Samsung SDI

CALB

Gotion

Great Power

Narada

Pylon Technologies

Key Questions Answered

1. How big is the global Liquid-cooled Energy Storage System market?
2. What is the demand of the global Liquid-cooled Energy Storage System market?
3. What is the year over year growth of the global Liquid-cooled Energy Storage System market?
4. What is the total value of the global Liquid-cooled Energy Storage System market?
5. Who are the Major Players in the global Liquid-cooled Energy Storage System market?
6. What are the growth factors driving the market demand?

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