

# Global Hybrid Solid-Liquid Battery for Energy Storage Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Hybrid Solid-Liquid Battery for Energy Storage market size is expected to reach \$ 4349 million by 2032, rising at a market growth of 46.0% CAGR during the forecast period (2026-2032).

Hybrid Solid-Liquid Battery for Energy Storage refers to a rechargeable battery used in energy storage systems, in which liquid electrolyte and solid electrolyte materials are combined within the battery cell to improve safety, thermal stability, cycle life and energy storage reliability. Compared with conventional liquid lithium-ion energy storage batteries, this type of battery introduces solid electrolyte materials or composite electrolyte structures to reduce electrolyte leakage risk, enhance resistance to thermal runaway, improve high-temperature stability and support safer long-duration operation. It is mainly used in stationary energy storage scenarios rather than vehicle propulsion, serving as a key energy storage component for power balancing, renewable energy integration, backup power and electricity cost optimization.

The main raw materials include cathode materials such as lithium iron phosphate, ternary materials and lithium manganese iron phosphate; anode materials such as graphite, silicon-carbon and other carbon-based materials; electrolyte materials such as liquid electrolyte, oxide solid electrolyte, polymer electrolyte, sulfide solid electrolyte and composite solid electrolyte; as well as separators, copper foil, aluminum foil, binders, conductive additives, battery shells, insulation materials, flame-retardant materials and thermal management materials. The upstream includes lithium resource suppliers, cathode and anode material manufacturers, electrolyte and solid electrolyte suppliers, separator companies and battery equipment manufacturers. Downstream customers mainly include utility-scale energy storage project developers, renewable energy operators, commercial and industrial energy storage integrators, residential energy

storage system providers, telecom operators, data centers and backup power system suppliers.

In 2025, global Hybrid Solid-Liquid Battery for Energy Storage production reached approximately 3.4 GWh, with an average market price of around US\$63 per kWh

The Hybrid Solid-Liquid Battery for Energy Storage market is developing along with the expansion of renewable energy, grid flexibility demand and safer energy storage technologies. As wind and solar power generation increases, power systems require batteries with higher safety, longer cycle life and stronger stability to support peak shaving, frequency regulation, renewable energy smoothing and backup power. Hybrid solid-liquid batteries are positioned as an upgraded energy storage battery route because they can improve safety and thermal stability while maintaining relatively practical manufacturing compatibility.

In terms of technology trends, the market is moving toward higher safety, longer service life, lower liquid electrolyte content and better solid-liquid interface stability. Lithium iron phosphate remains a key material route for energy storage due to its safety and cost advantages, while composite electrolyte systems are being developed to enhance cycle performance and reduce safety risks. Battery manufacturers are also optimizing cell design, module integration, thermal management, battery management systems and containerized energy storage solutions to improve system-level reliability.

From a regional perspective, China is one of the most active markets, supported by large-scale renewable energy installation, strong battery manufacturing capacity and rapid growth of grid-side and commercial energy storage projects. Europe is driven by renewable energy integration, household energy storage and energy security demand. North America is expanding utility-scale and commercial storage projects, supported by grid modernization and local battery supply chain development. Japan and South Korea have advantages in battery materials, system reliability and residential or commercial energy storage applications.

The main growth drivers include increasing renewable energy penetration, rising demand for grid stability, growth of commercial and industrial energy storage, expansion of data centers and telecom backup power, and stricter safety requirements for energy storage systems. In addition, electricity price fluctuations, peak-valley arbitrage, distributed energy development and policy support for energy storage are encouraging more customers to adopt advanced battery systems. Improvements in solid electrolyte materials, flame-retardant design, battery management systems and thermal

management technologies also support market growth. However, the industry still faces challenges such as higher material cost, long validation cycles, interface stability, production consistency and the need to prove long-term performance under large-scale energy storage operating conditions.

This report studies the global Hybrid Solid-Liquid Battery for Energy Storage production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Hybrid Solid-Liquid Battery for Energy Storage total production and demand, 2021-2032, (KWh)

Global Hybrid Solid-Liquid Battery for Energy Storage total production value, 2021-2032, (USD Million)

Global Hybrid Solid-Liquid Battery for Energy Storage production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (KWh), (based on production site)

Global Hybrid Solid-Liquid Battery for Energy Storage consumption by region & country, CAGR, 2021-2032 & (KWh)

U.S. VS China: Hybrid Solid-Liquid Battery for Energy Storage domestic production, consumption, key domestic manufacturers and share

Global Hybrid Solid-Liquid Battery for Energy Storage production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (KWh)

Global Hybrid Solid-Liquid Battery for Energy Storage production by Type, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

Global Hybrid Solid-Liquid Battery for Energy Storage production by Application, production, value, CAGR, 2021-2032, (USD Million) & (KWh)

This report profiles key players in the global Hybrid Solid-Liquid Battery for Energy Storage 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, WeLion New Energy, QingTao Energy, Ganfeng LiEnergy, Farasis Energy, SVOLT Energy

Technology, CALB Group, Gotion High-tech, Sunwoda, Great Power, 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 Hybrid Solid-Liquid Battery for Energy Storage market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (KWh) 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 Hybrid Solid-Liquid Battery for Energy Storage Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hybrid Solid-Liquid Battery for Energy Storage Market, Segmentation by Type:

Oxide-based Hybrid Solid-Liquid Battery

Sulfide-based Hybrid Solid-Liquid Battery

Polymer-based Hybrid Solid-Liquid Battery

Others

Global Hybrid Solid-Liquid Battery for Energy Storage Market, Segmentation by Anode Material System:

Graphite Anode Hybrid Solid-Liquid Battery

Silicon-Carbon Anode Hybrid Solid-Liquid Battery

Lithium Metal Anode Hybrid Solid-Liquid Battery

Global Hybrid Solid-Liquid Battery for Energy Storage Market, Segmentation by Application:

Utility-scale Energy Storage

Commercial and Industrial Energy Storage

Residential Energy Storage

Telecom and Backup Power

Others

Companies Profiled:

CATL

WeLion New Energy

QingTao Energy

Ganfeng LiEnergy

Farasis Energy

SVOLT Energy Technology

CALB Group

Gotion High-tech

Sunwoda

Great Power

Talent New Energy

Narada Power

SES AI

Factorial Energy

ProLogium Technology

Blue Solutions

24M Technologies

Kyocera

FREYR Battery

#### Key Questions Answered:

1. How big is the global Hybrid Solid-Liquid Battery for Energy Storage market?
2. What is the demand of the global Hybrid Solid-Liquid Battery for Energy Storage market?
3. What is the year over year growth of the global Hybrid Solid-Liquid Battery for Energy Storage market?

4. What is the production and production value of the global Hybrid Solid-Liquid Battery for Energy Storage market?
5. Who are the key producers in the global Hybrid Solid-Liquid Battery for Energy Storage market?
6. What are the growth factors driving the market demand?

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