

Global Hybrid Solid-Liquid Battery for Energy Storage Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Hybrid Solid-Liquid Battery for Energy Storage market size was valued at US\$ 220 million in 2025 and is forecast to a readjusted size of US\$ 4349 million by 2032 with a CAGR of 46.0% during review period.

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 is a detailed and comprehensive analysis for global Hybrid Solid-Liquid Battery for Energy Storage market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Hybrid Solid-Liquid Battery for Energy Storage market size and forecasts, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Hybrid Solid-Liquid Battery for Energy Storage market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Hybrid Solid-Liquid Battery for Energy Storage market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KWh), 2021-2032

Global Hybrid Solid-Liquid Battery for Energy Storage market shares of main players, shipments in revenue (\$ Million), sales quantity (KWh), and ASP (US\$/KWh), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Hybrid Solid-Liquid Battery for Energy Storage

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Hybrid Solid-Liquid Battery for Energy Storage market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Hybrid Solid-Liquid Battery for Energy Storage market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Oxide-based Hybrid Solid-Liquid Battery

Sulfide-based Hybrid Solid-Liquid Battery

Polymer-based Hybrid Solid-Liquid Battery

Others

Market segment by Anode Material System

Graphite Anode Hybrid Solid-Liquid Battery

Silicon-Carbon Anode Hybrid Solid-Liquid Battery

Lithium Metal Anode Hybrid Solid-Liquid Battery

Market segment by Application

Utility-scale Energy Storage

Commercial and Industrial Energy Storage

Residential Energy Storage

Telecom and Backup Power

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Hybrid Solid-Liquid Battery for Energy Storage product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hybrid Solid-Liquid Battery for Energy Storage, with price, sales quantity, revenue, and global market share of Hybrid Solid-Liquid Battery for Energy Storage from 2021 to 2026.

Chapter 3, the Hybrid Solid-Liquid Battery for Energy Storage competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hybrid Solid-Liquid Battery for Energy Storage breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Hybrid Solid-Liquid Battery for Energy Storage market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Hybrid Solid-Liquid Battery for Energy Storage.

Chapter 14 and 15, to describe Hybrid Solid-Liquid Battery for Energy Storage sales channel, distributors, customers, research findings and conclusion.

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