

**Solid-State Battery Market by Battery Type (Primary, Secondary), Capacity (Below 20 mAh, 20-500 mAh, Above 500 mAh), Application (Consumer Electronics, Electric Vehicles, Medical Devices, Energy Harvesting, Wireless Sensors) - Global Forecast to 2031**

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**Report description:**

With a CAGR of 37.5%, the global solid-state battery market is projected to grow from USD 0.26 billion in 2025 to USD 1.77 billion by 2031. The global solid-state battery market is set for strong future growth, driven by rising investment in R&D, advancements in energy density, and the increasing demand for safer, more compact power solutions. As the world moves toward electrification, solid-state batteries are gaining attention for their potential to transform electric vehicles, consumer electronics, and renewable energy storage with superior safety and performance. Though still in the prototyping phase, these batteries promise faster charging, longer cycle life, and higher thermal stability than conventional lithium-ion technologies. Leading battery innovators and supportive government initiatives accelerate pilot production and lay the groundwork for commercial-scale deployment. As industries seek more resilient, efficient, and sustainable energy storage solutions, solid-state batteries are expected to be crucial in the next wave of battery innovation.

<https://www.marketsandmarkets.com/Images/solid-state-battery-market1.webp>

"Secondary solid-state batteries to capture the largest market share in 2031"

Secondary (rechargeable) solid-state batteries are anticipated to power future applications across electric vehicles, consumer electronics, and renewable energy storage. Their compact design, enhanced safety, and higher energy density make them ideal for next-gen devices like smartphones, laptops, and tablets, enabling longer battery life and sleeker designs. Unlike traditional lithium-ion batteries, which face limitations in size and performance, secondary solid-state batteries offer superior energy storage

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and faster charging capabilities. As electric vehicles increasingly demand high-performance, long-lasting power sources, solid-state technology is emerging as a promising alternative. With the global shift toward clean mobility and sustainable energy, the secondary solid-state battery market is expected to grow significantly in the coming years.

"Consumer electronics application segment to register the second-highest CAGR in solid-state battery market during 2025 to 2031"

Solid-state batteries, while compact, offer far-reaching potential in consumer electronics, including smartphones, laptops, tablets, and digital cameras. By replacing traditional liquid-based cells with solid electrolytes, these batteries provide enhanced safety, thermal stability, and greater energy density-enabling lighter, thinner, and more efficient device designs. This shift allows manufacturers to keep pace with market demands for portability and durability. In smartphones, where space is increasingly constrained, solid-state batteries fulfill stringent design, temperature, and safety requirements. Their high resistance to physical damage and reduced risk of overheating make them especially well-suited for handheld devices. Companies such as ProLogium Technology Co, Ltd. (Taiwan) and Sakuu Corporation(US) are advancing this technology for mainstream electronic applications, with smartphones expected to lead the early adoption due to the batteries' compactness, safety, and ability to support evolving design complexities.

"Asia Pacific to emerge as the future epicenter of solid-state battery innovation and manufacturing"

The Asia Pacific region is expected to register the highest CAGR in the solid-state battery market during the forecast period. The region is poised to become a key hub for solid-state battery innovation, driven by strong government backing for clean energy, expanding EV ecosystems, and robust R&D investments. Countries such as China, Japan, South Korea, and India are actively testing prototypes and developing pilot production lines, laying the groundwork for future commercialization. With major battery manufacturers such as Toyota, Samsung, and LG spearheading technological advancements, the region is expected to be pivotal in scaling solid-state battery technology. Asia Pacific's established battery supply chain, expertise in high-volume manufacturing, and access to critical materials will enable faster cost reductions once solid-state batteries enter mass production, positioning the region at the forefront of next-generation energy storage solutions in the coming decade.

#### Breakdown of primaries

Various executives from key organizations operating in the solid-state battery market were interviewed in-depth, including CEOs, marketing directors, and innovation and technology directors.□

-□By Company Type: Tier 1 - 25%, Tier 2 - 40%, and Tier 3 - 35%

-□By Designation: Directors - 20%, C-level Executives - 45%, and Others - 35%

-□By Region: North America - 40%, Europe - 20%, Asia Pacific - 30%, and RoW - 10%

Note: Three tiers of companies are defined based on their total revenue as of 2024: tier 3 = revenue less than USD 50 million; tier 2 = revenue between USD 50 million and USD 100 million; and tier 1 = revenue more than USD 100 million. Other designations include sales managers, marketing managers, and product managers.

Major players profiled in this report are as follows: Blue Solutions (France), Solid Power, Inc. (US), ProLogium Technology Co, Ltd. (Taiwan), Ilika plc (UK), Factorial Energy (US), Excellatron Solid State, LLC (US), QuantumScape Battery, Inc. (US), Sakuu Corporation(US), Kanadevia Corporation (Japan), LionVolt (Netherlands), Qingtao (Kunshan) Energy Development Co., Ltd. (China), Prieto Battery Inc. (US), StoreDot Ltd. (Israel), Ganfeng Lithium Group Co., Ltd. (China), Ampcera (US), Ion Storage Systems (US), Welion (China), Iten (France) and Basquevolt (Basque Country). These leading companies possess an upfront solid-state battery technology that is being tested and sampled in emerging markets.

The study provides a detailed competitive analysis of these key players in the solid-state battery market, presenting their company profiles, most recent developments, and key market strategies.

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## Research Coverage

In this report, the solid-state battery market has been segmented based on capacity, battery type, application, and region. The capacity segment includes below 20 mAh, 20-500 mAh, and above 500 mAh capacities for solid-state batteries. The battery type segment includes primary and secondary batteries. The application segment comprises consumer electronics, electric vehicles, medical devices, energy harvesting, wireless sensors, packaging, and other applications (drone, aerospace, and smart textiles). The market has been segmented into four regions-North America (US, Canada, and Mexico), Asia Pacific (China, Japan, South Korea, India, and Rest of Asia Pacific), Europe (Germany, France, UK, Italy, and Rest of Europe), and RoW (Middle East, Africa, and South America).

## Reasons to buy the report

The report will help the leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall market and the sub-segments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the solid-state battery market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

## Key Benefits of Buying the Report

-□Analysis of key Drivers (rising research and development efforts by solid-state battery manufacturers, growing adoption of electric vehicles, advantages of solid-state batteries over conventional batteries), Restraints (high manufacturing costs for solid-state batteries), Opportunities (growing R&D funding, collaborations between solid-state battery producers and automotive companies, ongoing miniaturization trend in consumer electronics industry, progress in medical devices powered by solid-state batteries), and Challenges (intricate production processes of solid-state batteries) influencing the growth of the solid-state battery market

-□Product Development/Innovation: Detailed insights on upcoming technologies, research and development activities, and new product launches in the solid-state battery market

-□Market Development: Comprehensive information about lucrative markets - the report analyses the solid-state battery market across varied regions

-□Market Diversification: Exhaustive information about new products/services, untapped geographies, recent developments, and investments in the solid-state battery market

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and service offerings of leading players, such as Blue Solutions (France), Solid Power, Inc. (US), ProLogium Technology Co, Ltd. (Taiwan), Ilika plc (UK), and Factorial Energy (US)

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