

Lithium-ion Battery Anode Market by Material (Active Anode Materials and Anode Binders), Battery Product (Cell and Battery Pack), End-use (Automotive and Non-automotive), Production Technology, and Region - Global Forecast to 2030

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Report description:

The global lithium-ion battery anode market is projected to grow from USD 19.06 billion in 2025 to USD 81.24 billion by 2030, at a CAGR of 33.6% during the forecast period. The surge in the market is attributed to a dual advantage: affordability. These solutions provide a cost-effective method for large-scale energy storage in renewable sources, making them ideal for managing fluctuations in wind and solar power. Additionally, their reliance on standard sodium makes them a more sustainable option, aligning well with the global effort to reduce the environmental impact.

<https://www.marketsandmarkets.com/Images/lithium-ion-battery-anode-market-Overview.webp>

"By material, the synthetic graphite segment will account for the second-largest market share during the forecast period." By material type, the synthetic graphite segment is projected to hold the second-largest market share in the lithium-ion battery anode market during the forecast period. This is due to its consistent quality, high purity levels, and superior performance characteristics compared to natural graphite in certain high-energy applications. Synthetic graphite offers better structural uniformity, higher conductivity, and enhanced charge-discharge cycles, making it suitable for high-performance batteries used in electric vehicles and industrial energy storage systems. While it is more expensive to produce than natural graphite, its reliability, and compatibility with advanced battery chemistries make it a preferred choice for premium applications. Growing investments in EV infrastructure and technological advancements in battery systems are further supporting its adoption. Additionally, manufacturers are focusing on improving production efficiency to reduce the cost of synthetic graphite. These factors contribute to the steady growth and significant market share of the synthetic graphite segment in the coming years.

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"By end use, the non-automotive segment will account for the second-largest share during the forecast period."

The non-automotive segment is expected to account for the second-largest share of the lithium-ion battery anode market in terms of value during the forecast period. This segment includes applications such as consumer electronics, industrial equipment, and energy storage systems, all of which are witnessing steady growth. The increasing adoption of portable devices, such as smartphones, laptops, and tablets, continues to drive demand for reliable battery technologies. In parallel, stationary energy storage solutions are gaining momentum, particularly in grid support and renewable energy integration. Industrial applications, including power tools and backup power systems, also contribute to this segment's expansion. As energy efficiency and sustainability become key global priorities, non-automotive sectors are increasingly investing in advanced battery solutions. These factors collectively ensure a strong and sustained demand for lithium-ion battery anodes beyond the automotive space.

"Europe will account for the second-largest share during the forecast period."

Europe is expected to account for the second-largest share of the lithium-ion battery anode market in terms of value during the forecast period, driven by strong regulatory support and accelerating clean energy initiatives. With the European Union pushing for carbon neutrality and stricter emission norms, the region is witnessing rapid growth in electric vehicle adoption and renewable energy integration. Major economies like Germany, France, and other countries are investing heavily in battery manufacturing and energy storage infrastructure. The presence of key battery manufacturers and strategic collaborations across the value chain are further strengthening the regional market. Europe's strong focus on circular economy principles also encourages recycling and innovation in battery components. These combined factors are positioning Europe as a crucial hub in the global lithium-ion battery anode market.

Profile break-up of primary participants for the report:

-□By Company Type: Tier 1 - 65%, Tier 2 - 20%, and Tier 3 - 15%

-□By Designation: Directors - 25%, Managers - 30%, and Others - 45%

-□By Region: North America - 30%, Asia Pacific - 40%, Europe - 20%, and the Rest of the World- 10%

Ningbo Shanshan Co., Ltd. (China), Jiangxi Zhengtuo New Energy Technology (China), Resonac Holdings Corporation (Japan), POSCO FUTURE M (South Korea), Mitsubishi Chemical Group Corporation (Japan), and SGL Carbon (Germany) are some of the major players operating in the lithium-ion battery anode market. These players have adopted expansions to increase their market share and business revenue.

Research Coverage:

The report defines, segments, and projects the lithium-ion battery anode market based on material, battery product, end-use, production technology, and region. It provides detailed information regarding the major factors influencing the market growth, such as drivers, restraints, opportunities, and challenges. It strategically profiles lithium-ion battery anode manufacturers, comprehensively analyzes their market shares and core competencies, and tracks and analyzes competitive developments, such as product launches, acquisitions, agreements, and others.

Reasons to Buy the Report:

The report is expected to help the market leaders/new entrants by providing them with the closest approximations of revenue numbers of the lithium-ion battery anode market and its segments. This report is also expected to help stakeholders obtain an improved understanding of the market's competitive landscape, gain insights to improve the position of their businesses and make suitable go-to-market strategies. It also enables stakeholders to understand the market's pulse and provides information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- Analysis of drivers (increase in demand for EVs, growing need for automation and battery-operated equipment in industries,

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rising demand for lithium-ion batteries for industrial applications, and increasing R&D initiatives by lithium-ion battery manufacturers), opportunities (increasing adoption of lithium-ion batteries in new applications and innovation and technological advances in lithium-ion battery anode materials), restraints (safety issues related to storage and transportation of batteries), and challenges (overheating issues of lithium-ion batteries and high cost of lithium-ion battery-operated industrial vehicles) influencing the growth of the lithium-ion battery anode market.

- Product development/innovation: Detailed insights on upcoming technologies and research & development activities in the lithium-ion battery anode market.

- Market Development: Comprehensive information about lucrative markets - the report analyses the lithium-ion battery anode market across varied regions.

- Market Diversification: Exhaustive information about new products, various materials, untapped geographies, recent developments, and investments in the lithium-ion battery anode market.

- Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players in the lithium-ion battery anode market, such as Ningbo Shanshan Co., Ltd. (China), Jiangxi Zhengtuo New Energy Technology (China), Resonac Holdings Corporation (Japan), POSCO FUTURE M (South Korea), Mitsubishi Chemical Group Corporation (Japan), and SGL Carbon (Germany).

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