

Advanced Battery Market Size, Share & Trends Analysis Report By Product (Lithium Ion Polymer Battery, Sodium Sulfur Battery, Smart Nano Battery), By Application (Consumer Electronics, Automotive Battery), By Region, And Segment Forecasts, 2025 - 2030

<https://marketpublishers.com/r/ADC2DF9294F6EN.html>

Date: October 2024

Pages: 100

Price: US\$ 5,950.00 (Single User License)

ID: ADC2DF9294F6EN

Abstracts

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Advanced Battery Market Growth & Trends

The global advanced battery market size is anticipated to reach USD 140.3 billion by 2030, according to a new report by Grand View Research, Inc. The market is projected to grow at a CAGR of 10.5% from 2025 to 2030. The implementation of favorable government policies regarding the usage of energy-efficient products is likely to augment the market growth over the forecast period.

The market is primarily driven by the growing demand for battery energy storage systems across various end-use segments including residential, commercial, and industrial sectors. Moreover, the rising demand for renewable power generation infrastructure requiring energy storage for later use is estimated to propel the market growth over the next seven years.

Industry participants are focusing on research and development activities to develop advanced battery cells and modules that provide longer life, better performance, and lower battery cost when compared to traditional batteries. Moreover, market players follow several strategic initiatives, such as diversifying their product offerings, to enhance their

foothold in end-use markets.

Trade disputes among the top economies including the U.S. and China along with the growing impact of COVID-19 are expected to disrupt the market supply chain that includes raw material suppliers, battery pack manufacturers, electrode material producers, and others. This, in turn, is projected to have a negative impact on market growth.

Advanced Battery Market Report Highlights

Lithium-ion polymer battery occupied the largest market share in 2024 owing to its extensive usage in the electronic devices sector.

Sodium sulfur battery is projected to register the highest CAGR over the forecast period. It serves as large-scale stationary storage during renewable energy power generation.

Automotive battery application segment is expected to register the fastest CAGR over the forecast period owing to the growing penetration of advanced batteries in Electric Vehicles (EVs).

Consumer electronics segment occupied the largest market revenue share in 2024 owing to the increased demand for electronic devices.

Europe led the market in 2024 and will retain its dominant position over the coming years owing to the implementation of favorable government policies regarding the deployment of EVs and battery energy storage systems across the region.

Asia Pacific accounted for the second-largest market share owing to high demand for enhanced battery capacity in developing economies, such as China and India.

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