Electric Scooter Battery Market to Hit $7.3 Billion by 2030, Growing at 21.6% CAGR

Allied Market Research: Li-ion Batteries Drive Global Electric Scooter Battery Market Growth

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According to a recent report by Allied Market Research, the global electric scooter battery market size was valued at $1.0 billion in 2020 and is projected to reach $7.3 billion by 2030, growing at an impressive CAGR of 21.6% from 2021 to 2030.

The surge in demand for electric scooters, driven by sustainable mobility trends, government incentives, and advancements in lithium-ion battery technology, is propelling the market forward at a record pace.

> Electric scooter battery market to reach $7.3B by 2030, growing at 21.6% CAGR, driven by EV adoption, lithium-ion innovation & subsidies.”
>
> *Allied Market Research*

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Key Findings

The Li-ion battery segment is expected to grow at a CAGR of 23.5% from 2021 to 2030.

The 1500–2000 Wh battery category will register the highest CAGR of 24.8% during the forecast period.

Asia-Pacific remains the fastest-growing region, with strong government support and EV-friendly policies.

 Understanding Electric Scooter Batteries

An electric scooter battery acts as the core power storage unit that supplies voltage to the DC motor, controller, and lighting systems of the scooter. These batteries comprise multiple interconnected cells that deliver consistent energy to power essential scooter components.

As urban areas shift toward eco-friendly commuting solutions, lightweight electric scooters have gained immense popularity due to their zero carbon emissions, low maintenance, and cost-efficiency. The expansion of battery technology and charging infrastructure is playing a key role in supporting this transition.

 Key Market Drivers

1. Rapid Shift Toward Green Mobility: Growing environmental concerns and the global push toward zero-emission transport are fueling electric scooter adoption. Government policies promoting EVs through subsidies, tax rebates, and fuel-saving incentives are further supporting market growth.

2. Expansion of Charging Infrastructure: According to the International Energy Agency (IEA), several nations, including China, the U.S., and Switzerland, have implemented policies supporting the expansion of public and home-based EV charging networks. Such infrastructure improvements are making e-scooters more practical and appealing to consumers.

3. Technological Advancements in Batteries: The introduction of lightweight lithium-ion (Li-ion) batteries with high energy density and faster charging capabilities is transforming the electric scooter market. Li-ion batteries outperform traditional lead-acid types, offering improved mileage, reduced weight, and extended battery life.

 Growth Opportunities in Lightweight Lithium-Ion Batteries

The increasing competition among e-scooter manufacturers has driven a stronger preference for lightweight lithium-ion batteries. These batteries enhance scooter range, efficiency, and overall performance while reducing vehicle weight.

In addition, the use of lithium instead of graphite in electrodes contributes to better energy efficiency and improved acceleration. This growing adoption of lithium-ion batteries presents remunerative opportunities for market players across the value chain, from cell manufacturers to scooter OEMs.

 Market Challenges

While the market outlook is promising, the use of sealed lead-acid (SLA) batteries presents environmental challenges. Improper disposal can lead to groundwater contamination due to the presence of lead and sulfuric acid. To address this, agencies such as the Environmental Protection Agency (EPA) and United Nations Environment Program (UNEP) have established stringent regulations for the safe handling and disposal of SLA batteries.

These environmental concerns are accelerating the shift toward eco-friendly lithium-based battery alternatives.

 Market Segmentation Analysis

By Product Type: The market is segmented into Lithium-ion (Li-ion), Lithium iron phosphate (LFP), Lithium Polymer (LiPo), Sealed Lead Acid (SLA), and Nickel Metal Hydride (NiMH).

The Li-ion segment dominated in 2020, accounting for over half of the total market share. With superior energy storage and performance, Li-ion batteries are increasingly favored by leading electric scooter manufacturers.

By Capacity: The global electric scooter battery market is categorized into 100–500 Wh, 500–1000 Wh, 1000–1500 Wh, 1500–2000 Wh, and 2000 Wh & above.

The 1000–1500 Wh segment captured the largest share in 2020, driven by its balance between power, size, and cost efficiency. These batteries are commonly used in compact electric scooters for city commuting.

By Region: Asia-Pacific dominated the global electric scooter battery market in 2020, accounting for a 97.2% share. The region is expected to maintain its lead, growing at a CAGR of 21.7% during the forecast period.

Countries like India are leading the charge with initiatives such as the FAME II scheme (Faster Adoption and Manufacturing of Hybrid & Electric Vehicles), which provides direct subsidies for electric scooter purchases, stimulating both demand and local battery production.

 Key Market Players

Prominent companies operating in the global electric scooter battery industry include:

Contemporary Amperex Technology Co. Ltd. (CATL)

LG Energy Solution

Samsung SDI Co. Ltd.

Pure EV

Maxvolt Energy

Hunan CTS Technology Co. Ltd.

SmartPropel Lithium Battery

Xupai Battery Inc.

Pastiche Energy Solutions

Dande Renewable Energy Pvt. Ltd.

These players are focusing on product innovation, R&D investments, and partnerships to enhance energy efficiency and reduce charging time.

 COVID-19 Impact on the Electric Scooter Battery Market

The COVID-19 pandemic temporarily slowed market growth due to reduced mobility and disruptions in the global supply chain. According to the International Energy Agency (IEA), global road transport activity dropped by nearly 50% by March 2020 compared to the previous year.

Manufacturing shutdowns, trade restrictions, and reduced consumer spending affected e-scooter and battery sales. However, as restrictions eased and consumer interest in personal, sustainable transportation surged, the market began recovering by late 2021.

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 Conclusion

The global electric scooter battery market is poised for remarkable growth, driven by the global transition to sustainable mobility, technological advancements, and supportive government policies. With the dominance of lithium-ion technology and growing demand for eco-friendly urban transport, the market will continue to accelerate, shaping the future of clean energy-powered transportation.

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