

# Electric Scooter Battery Market Set for Explosive Growth by 2030

□ *Electric Scooter Battery Market to Soar to \$7.3B by 2030 with 21.6% CAGR Amid Rising EV Adoption*

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The global [electric scooter battery market](#) is riding a fast track toward substantial growth, projected to expand from \$1.0 billion in 2020 to \$7.3 billion by 2030, growing at an impressive CAGR of 21.6% from 2021 to 2030, according to Allied Market Research. Electric scooter batteries serve as the essential power storage units that supply voltage to DC motors, controllers, lights, and various accessories in electric scooters, making them indispensable in the shift toward greener mobility.



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Global electric scooter battery market set to grow from \$1B in 2020 to \$7.3B by 2030 at 21.6% CAGR, driven by eco-friendly transport shift.”

*Allied Market Research*

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The increasing dependency on lightweight electric vehicles stems from their advantages, including zero carbon emissions, low operating and maintenance costs, and fiscal incentives from governments worldwide. Countries such as China, the U.S., and Switzerland are actively supporting the

development of efficient electric vehicle charging infrastructures, providing grants and incentives to accelerate electric vehicle adoption. The International Energy Agency (IEA) reports these measures are pivotal in encouraging users to transition toward electric scooters, further fueling the electric scooter battery market growth.

□ Lithium-Ion Battery Dominance and Market Drivers

Among various battery types, [Lithium-ion \(Li-ion\) batteries](#) dominate the market, accounting for over half of the total market share in 2020. Their high energy density, compact size, and ability to store more energy while producing greater output make them the preferred choice for electric scooter manufacturers. The shift toward lightweight lithium-ion batteries is driven by the demand for enhanced mileage, reduced vehicle weight, and affordability, positioning them as a key growth opportunity.

The growing transportation sector has witnessed a significant rise in fuel consumption, escalating global pollution and accelerating climate change. Electric scooters powered by lithium-ion batteries offer a sustainable alternative, especially for last-mile urban commuting. Furthermore, competitive pressure among manufacturers encourages continuous innovations to improve battery efficiency, longevity, and affordability.

#### □□ Challenges: Environmental Regulations and SLA Battery Concerns

Sealed Lead Acid (SLA) batteries, though once common, face hurdles due to their potential environmental hazards. Containing lead and sulfuric acid, improper disposal of SLA batteries may lead to groundwater contamination and pose health risks. Regulatory bodies like the UNEP and EPA enforce strict guidelines for SLA usage and disposal, discouraging their market growth.

Additionally, uncertainties in global fossil fuel prices and rising competition from alternative power solutions challenge the small-scale battery industry. Nonetheless, governments and companies continue to invest in research and development to address these concerns and promote eco-friendly technologies.

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#### □ Market Segmentation and Regional Insights

The electric scooter battery market segmentation covers product type, capacity, and region:

Product Type: Lithium-ion (Li-ion), [Lithium iron phosphate \(LFP\)](#), Lithium Polymer (LiPo), SLA, and Nickel Metal Hydride (NiMH).

Capacity: Ranges from 100–500 Wh to above 2000 Wh. The 1000–1500 Wh capacity led the market in 2020 due to its ideal balance of energy density and weight, making it popular in lightweight electric scooters.

Region: Asia-Pacific leads the market share, accounting for 97.2% in 2020. The region's growth is supported by rapid urbanization and government initiatives such as India's FAME 2 (Faster Adoption and Manufacturing of Electric Vehicles) scheme, providing purchase subsidies for electric scooters.

Key players contributing to this market's evolution include Contemporary Amperex Technology Co. Ltd., LG Energy Solution, Samsung SDI Co. Ltd., SmartPropel Lithium Battery, and Xupai Battery Inc., among others. Their strategic expansions and product innovations drive competitiveness and market penetration.

#### □ COVID-19 Impact and Recovery Outlook

The COVID-19 pandemic significantly affected the electric scooter battery market, especially in the transportation sector. Road transport activity plummeted by nearly 50% by March 2020 compared to the previous year, as reported by the International Energy Agency. Lockdowns led to shutdowns of manufacturing facilities, disrupted supply chains, and reduced consumer purchasing power.

However, recovery is underway as governments and industries shift focus toward green energy solutions to rebuild sustainable economies. With supportive policies and increasing awareness of climate change, the electric scooter battery market is poised for accelerated growth post-pandemic.

#### □ Key Takeaways:

The Lithium-ion (Li-ion) battery segment is projected to grow at the highest CAGR of 23.5% through 2030.

The 1500–2000 Wh capacity is anticipated to witness a CAGR of 24.8% during the forecast period.

Asia-Pacific is projected to expand at a high CAGR of 21.7%, driven by government subsidies and rising urbanization.

As the world moves toward sustainable transportation, the electric scooter battery market presents lucrative opportunities for manufacturers, investors, and policymakers aiming to promote eco-friendly mobility solutions.

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#### □ Conclusion

The electric scooter battery market is set to revolutionize the transportation landscape by providing sustainable, efficient, and cost-effective energy solutions. Driven by the rising demand for eco-friendly vehicles, supportive government policies, and rapid technological advancements, the market is projected to grow from \$1.0 billion in 2020 to \$7.3 billion by 2030, at a CAGR of

21.6%.

Lithium-ion batteries will continue to dominate due to their superior performance and lightweight design, while regions like Asia-Pacific are emerging as strong growth hubs thanks to favorable regulations and urbanization trends. Although challenges such as environmental regulations and COVID-19 impacts posed short-term setbacks, the long-term outlook remains robust.

With global efforts accelerating toward a greener future, the electric scooter battery market offers abundant opportunities for innovation, investment, and sustainable mobility solutions.

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