

Electric Motorcycle and Scooters Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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Abstracts

The Global Electric Motorcycle & Scooters Market was valued at USD 36.4 billion in 2024 and is estimated to grow at a CAGR of 12.1% to reach USD 110.6 billion by 2034. This market is witnessing rapid expansion driven by government policies, substantial infrastructure investments, and the growing demand for eco-friendly transportation options. Electric two-wheelers (E2Ws) have emerged as a sustainable and cost-effective alternative to traditional gasoline-powered vehicles, especially in urban areas with increasing traffic congestion. In countries like China and India, the adoption of electric motorcycles and scooters is rising quickly, aided by government subsidies, incentives, and programs aimed at promoting green mobility.

Government policies have played a key role in this transition by offering various subsidies, tax benefits, and low-emission zones to encourage the use of electric vehicles. Countries such as China, India, and several European nations have led this shift. China has long been the market leader in terms of production and sales, while India has witnessed explosive growth due to aggressive electrification targets and favorable policies. Programs like India's Go Electric initiative and various supply-side incentives have significantly boosted the adoption of electric two-wheelers, leading to greater market penetration.

In 2024, the electric motorcycle segment accounted for 30% share and is expected to see a growth rate of 13% between 2025 and 2034. Collaborative efforts are becoming more common in this segment, especially between traditional motorcycle manufacturers, as they seek to share resources and reduce costs associated with research, development, and supply chain challenges. These collaborations aim to accelerate the market entry of electric motorcycles while managing risks amid an

evolving regulatory environment.

The Lithium-ion batteries segment held 85% share in 2024 and will grow at a CAGR of 10% from 2025 to 2034. Lithium-ion batteries are preferred for electric scooters due to their energy efficiency and relatively low weight. Suppliers are focusing on enhancing the performance of these batteries, especially in terms of safety, thermal management, and battery life, as overheating and degradation have been key concerns for users.

China Electric Motorcycle & Scooters Market held 55% share and USD 14.5 billion in 2024. The country's dominance is fueled by its ability to produce vehicles at large scale and its advanced battery technology. China also benefits from a well-integrated supply chain, which enables competitive pricing, making it easier for local brands to penetrate both domestic and international markets. Brands like Yadea, AIMA, and NIU continue to lead in both local and global markets, leveraging their manufacturing capabilities and cost-efficient production.

The key players in the Electric Motorcycle & Scooters Market include Yamaha Motor, Hero Motor, Kawasaki Motors, Harley-Davidson, Zero Motorcycles, Honda Motor, Energica Motor, Triumph Motorcycles, Yadea, and Ola Electric. To strengthen their presence in the electric motorcycle and scooter market, companies are focusing on technological innovation, partnerships, and market diversification. Many firms are investing heavily in R&D to enhance battery performance, safety, and energy efficiency. Collaboration with other OEMs (Original Equipment Manufacturers) is a common strategy to share production platforms, reduce R&D costs, and address supply chain issues. Companies are also expanding their product portfolios to include a wider range of electric two-wheelers, catering to various customer segments, from budget-conscious buyers to high-end consumers.

Comprehensive Market Analysis and Forecast

Industry trends, key growth drivers, challenges, future opportunities, and regulatory landscape

Competitive landscape with Porter's Five Forces and PESTEL analysis

Market size, segmentation, and regional forecasts

In-depth company profiles, business strategies, financial insights, and SWOT analysis

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