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China E Scooter Market, By Battery Type (Lead Acid and Lithium-Ion), By Battery Capacity (2.5 kWh), By Range (150 km), By Region, Competition, Forecast & Opportunities, 2020-2030F

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Abstracts

Market Overview

China E Scooter market was valued at USD 8.98 billion in 2024 and is anticipated to grow USD 13.02 billion by 2030 with a CAGR of 6.44% during the forecast period. The China e-scooter market is experiencing robust growth, fueled by rising urbanization, government support for electric mobility, and increasing concerns over environmental sustainability. Consumers are shifting toward e-scooters as a cost-effective and eco-friendly alternative to traditional gasoline-powered vehicles. Lead-acid batteries currently dominate due to their affordability and established infrastructure, although lithium-ion batteries are rapidly gaining traction for their longer lifespan and efficiency. Hub motors lead in drivetrain preference for their simplicity and low maintenance. E-motorcycles represent the dominant vehicle category, particularly in urban and peri-urban areas, where last-mile connectivity and delivery services continue to drive demand for electric two-wheelers.

Key Market Drivers

Government Policies and Environmental Regulations

One of the most significant drivers of the China e-scooter market is the government's strong support for electric mobility. In an effort to combat rising air pollution and meet global climate targets, Chinese authorities have implemented strict regulations limiting the use of internal combustion engine (ICE) vehicles in urban centers. Numerous cities

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have enacted low-emission zones and imposed licensing restrictions on gasoline-powered scooters, prompting consumers and businesses alike to shift to electric alternatives.

In addition, the Chinese government has introduced a range of subsidies, tax incentives, and infrastructure investments to encourage e-scooter adoption. Initiatives such as waiving purchase taxes on electric vehicles and offering financial support for battery recycling and charging infrastructure development have made e-scooters more affordable and practical. These policies not only improve public health and environmental outcomes but also support domestic manufacturing and innovation in the electric mobility sector.

Key Market Challenges

Battery Recycling and Environmental Concerns

While e-scooters are often seen as an eco-friendly alternative to gasoline-powered vehicles, the issue of battery disposal poses a significant environmental challenge. China's e-scooter market is still dominated by lead-acid batteries due to their lower upfront cost, particularly in lower-tier cities and rural areas. However, these batteries have a shorter lifespan and are more hazardous to dispose of, contributing to growing concerns over environmental pollution and public health.

The improper disposal and limited recycling of used batteries—both lead-acid and lithium-ion—can lead to soil and water contamination due to toxic substances like lead, sulfuric acid, and heavy metals. Despite national guidelines for recycling and the establishment of authorized recycling centers, enforcement remains inconsistent, especially in rural and less-regulated areas. Additionally, informal and unregulated recycling operations can exacerbate pollution, undermining the environmental benefits of electric mobility.

Key Market Trends

Rise of Smart and Connected E-Scooters

The integration of smart technologies and IoT (Internet of Things) into e-scooters is a rapidly evolving trend in China. With the country's strong digital infrastructure and growing demand for tech-enabled mobility solutions, consumers are increasingly attracted to e-scooters that offer features such as GPS tracking, anti-theft systems, mobile app connectivity, remote diagnostics, and ride analytics. According to the China

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Association of Automobile Manufacturers (CAAM, January 2025), China's total vehicle production and sales reached 31.28 million and 31.44 million units, respectively, in 2024. While these figures largely represent the four-wheeler segment, they also highlight strong momentum in the broader mobility market. Two-wheeler production alone surpassed 21 million units in 2024, underscoring robust demand in this category. This growth reflects rising consumer preference for compact, cost-effective urban mobility solutions. As a key subsegment, e-scooters are benefiting significantly from this industry-wide momentum, driven by expanding electrification, urbanization, and favorable government initiatives supporting sustainable transportation.

Leading brands in the Chinese market, such as Niu Technologies and Yadea, are setting benchmarks by offering smart e-scooters equipped with cloud-connected dashboards, over-the-air (OTA) software updates, and user-friendly apps. These innovations are transforming the riding experience, improving safety, enhancing vehicle management, and enabling better maintenance practices.

Key Market Players

Yadea Technology Group Co., Ltd.

Aima Technology Group Co., Ltd.

Jiangsu Xinri E-Vehicle Co., Ltd.

Zhejiang Luyuan Electric Vehicle Co., Ltd.

Qianjiang Motorcycle Co., Ltd.

Jinan Qingqi Motorcycle Co., Ltd

Niu Technologies Group Limited

Zhejiang Geely Holding Group Co., Ltd.

Super Soco Technology Co., Ltd.

Zhejiang Benling Vehicle Technology Co., Ltd.

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Report Scope:

In this report, the China E Scooter Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

China E Scooter Market, By Battery Type:

Lead Acid

Lithium-Ion

China E Scooter Market, By Battery Capacity:

2.5 kWh

China E Scooter Market, By Range:

150 km

China E Scooter Market, By Region:

East

North-East

South Central

Southwest

North

North-West

Competitive Landscape

Company Profiles: Detailed analysis of the major companies presents in the China E Scooter Market.

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Available Customizations:

China E Scooter Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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