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# Urban Mobility & Low Carbon Transport Market Forecasts to 2032 - Global Analysis By Mode of Transport (Road Transport, Rail Transport, Air Transport and Water Transport), Infrastructure, Technology, Application, End User and By Geography

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## Abstracts

According to Stratistics MRC, the Global Urban Mobility & Low Carbon Transport Market is accounted for $167.0 billion in 2025 and is expected to reach $295.6 billion by 2032 growing at a CAGR of 8.5% during the forecast period. Urban Mobility & Low Carbon Transport refers to integrated transportation systems that enable efficient, safe, and accessible movement of people and goods within urban environments while significantly reducing greenhouse gas emissions and energy consumption. It encompasses public transit, electric and hybrid vehicles, shared mobility services, non-motorized transport, and intelligent traffic management solutions. Built on established urban planning principles and advanced digital technologies, these systems aim to alleviate congestion, improve air quality, and enhance quality of life. Low-carbon transport is a critical enabler of sustainable urban development, supporting climate goals, economic resilience, and long-term city livability.

**Market Dynamics:**

Driver:

Increasing water pollution

Rising water pollution levels are indirectly accelerating the shift toward urban mobility and low-carbon transport. Urban runoff and emissions from conventional transport systems significantly degrade water bodies, prompting governments to adopt cleaner

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mobility frameworks. Electric vehicles and public transit systems reduce pollutant discharge into urban ecosystems. As cities align transport planning with environmental protection policies, sustainable mobility emerges as a critical tool to mitigate water contamination and support broader environmental conservation and public health objectives.

Restraint:

High cost of advanced systems

The high cost associated with deploying advanced urban mobility and low-carbon transport systems remains a key restraint. Infrastructure for electric charging, hydrogen refueling, smart traffic management and integrated digital platforms requires substantial capital investment. Additionally, high upfront costs for advanced vehicles and sensor-enabled systems challenge adoption, particularly in developing economies. Budget constraints and need for skilled technical expertise further slow large-scale implementation, limiting market penetration.

Opportunity:

Advancements in sensor technology

Advancements in sensor technology present significant growth opportunities for the urban mobility and low-carbon transport market. Smart sensors enable real-time traffic monitoring, predictive maintenance, emissions tracking, and optimized route planning, improving system efficiency and safety. Integration with AI and IoT platforms enhances decision-making and reduces energy consumption. As cities transition toward smart mobility ecosystems, sensor-driven solutions support data-driven urban planning, improve passenger experience, and accelerate adoption of intelligent, low-emission transport networks.

Threat:

Environmental and climate challenges

Environmental and climate-related challenges pose a threat to the market. Extreme weather events, rising temperatures, and climate-induced infrastructure stress can disrupt transport networks and increase maintenance costs. Flooding, heatwaves, and resource scarcity affect system reliability and long-term planning. Additionally, evolving

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environmental regulations and climate uncertainty require continuous adaptation, increasing operational complexity for stakeholders and potentially slowing deployment of large-scale mobility infrastructure projects.

**Covid-19 Impact:**

The Covid-19 pandemic had a mixed impact on the market. Lockdowns and travel restrictions initially reduced passenger demand and delayed infrastructure projects. However, the pandemic accelerated long-term trends such as electric vehicle adoption, micromobility, and digital mobility platforms. Governments increasingly prioritized sustainable transport in economic recovery plans, emphasizing emission reduction and resilient urban systems, which supported market recovery and reinforced the strategic importance of low-carbon mobility solutions.

The hydrogen refueling stations segment is expected to be the largest during the forecast period

The hydrogen refueling stations segment is expected to account for the largest market share during the forecast period, due to growing adoption of hydrogen-powered buses, commercial fleets, and heavy-duty transport. Hydrogen offers fast refueling, long driving range, and zero tailpipe emissions, making it suitable for urban and intercity mobility. Government investments, decarbonization targets, and expanding hydrogen infrastructure support large-scale deployment, positioning refueling stations as a critical backbone of low-carbon transport ecosystems.

The passenger transport segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the passenger transport segment is predicted to witness the highest growth rate, due to increasing urbanization, population growth, and demand for sustainable commuting solutions. Expansion of public transit, shared mobility, electric buses, and rail systems supports emission reduction and congestion management. Policy incentives, smart ticketing, and integrated mobility platforms further boost adoption. As cities prioritize efficient and inclusive transportation, passenger-focused low-carbon solutions gain momentum, driving rapid growth across urban mobility networks.

Region with largest share:

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During the forecast period, the Asia Pacific region is expected to hold the largest market share, due to rapid urbanization, rising population density, and strong government support for sustainable transport initiatives. Countries such as China, Japan, and India are investing heavily in electric vehicles, public transit expansion, and smart mobility infrastructure. Increasing environmental awareness and large-scale infrastructure development further drives adoption, positioning Asia Pacific as a dominant contributor to the global urban mobility and low-carbon transport market.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, owing to strong policy support for decarbonization, advanced technological adoption, and rising investment in electric and hydrogen transport infrastructure. The region benefits from mature urban planning, robust research and development, and rapid deployment of smart mobility solutions. Increasing demand for clean passenger transport, coupled with innovation in digital traffic management and energy-efficient systems, accelerates market growth across major metropolitan areas.

Key players in the market

Some of the key players in Urban Mobility & Low Carbon Transport Market include Uber Technologies Inc., BYD Co., Ltd., Lyft Inc., Alstom SA, Didi Chuxing Technology Co., Thales Group, Grab Holdings Inc., Transdev, Bolt Technology O?, Via Transportation Inc., Voi Technology, Tesla, Inc., Lime, Siemens AG, and Bird Global, Inc.

**Key Developments:**

In December 2025, Siemens and GlobalFoundries have forged a strategic partnership to deploy AI-driven manufacturing technologies that enhance semiconductor fabrication efficiency, reliability, and security. By integrating AI-enabled automation, predictive maintenance, and advanced digital solutions across chip production, they aim to bolster global semiconductor supply chains and support demand for next-generation autonomous and connected platforms.

In November 2025, Siemens and HD Hyundai signed a strategic Memorandum of Understanding to modernize the U.S. shipbuilding industry by applying Siemens? digital technologies and HD Hyundai?s engineering expertise to enhance design, automation, workforce skills, and competitiveness, strengthening maritime infrastructure and resilience.

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Mode of Transports Covered:

- Road Transport
- Rail Transport
- Air Transport
- Water Transport

Infrastructures Covered:

- Charging Infrastructure
- Hydrogen Refueling Stations
- Public Transit Infrastructure
- Smart Mobility Platforms

Technologies Covered:

- Battery Electric Vehicles (BEVs)
- Shared Mobility Platforms
- Plug-in Hybrid Electric Vehicles (PHEVs)
- Autonomous & Connected Vehicles
- Fuel Cell Electric Vehicles (FCEVs)

Applications Covered:

- Passenger Transport

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- Public Transit Systems
- Freight & Logistics
- Last-Mile Delivery

End Users Covered:

- Individual Consumers
- Corporate Mobility Services
- Fleet Operators
- Government & Municipal Authorities

Regions Covered:

- North America
  - US
  - Canada
  - Mexico
- Europe
  - Germany
  - UK
  - Italy
  - France

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- Spain
- Rest of Europe

Asia Pacific

- Japan
- China
- India
- Australia
- New Zealand
- South Korea
- Rest of Asia Pacific

South America

- Argentina
- Brazil
- Chile
- Rest of South America

Middle East & Africa

- Saudi Arabia
- UAE
- Qatar
- South Africa

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Rest of Middle East & Africa

**What our report offers:**
- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2024, 2025, 2026, 2028, and 2032
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

**Free Customization Offerings:**

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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Note: Tables for North America, Europe, APAC, South America, and Middle East & Africa Regions are also represented in the same manner as above.

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