

Electric Commercial Vehicle Market to Hit \$ 521.92 Billion by 2032 Owing to Rising E-Commerce & Zero-Emission Initiative

Electric Commercial Vehicle Market is driven by stringent emission regulations, advancements in battery technology, & demand for sustainable logistics solutions

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[Electric Commercial Vehicle Market](#)



The Electric Commercial Vehicle Market was valued at USD 71.51 billion in 2023 and is projected to reach USD 521.92 billion by 2032, growing at a CAGR of 24.74% over the forecast period of 2024-2032.

Electric Commercial Vehicles are Revolutionizing Transportation as Sustainability, Innovation, and Government Support Drive Market Growth.

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Electric Commercial Vehicle Market is booming, driven by stringent emission regulations, government incentives, advancements in battery technology, & rising demand for logistics and transportation ”

SNS Insider

The environmental impact of traditional gasoline and diesel vehicles has forced industries to shift toward electric alternatives, especially in the commercial vehicle segment. E-commerce and logistics sectors lead the wave in this end while utilizing Electric Commercial Vehicles for "first and last mile" delivery, thereby reducing carbon footprints and meeting the growing consumer expectations for sustainability in practices.

Incentives in terms of subsidies for electric garbage trucks,

buses, and stringent zero-emission mandates are forcing the businesses to electrify their fleet. Low-emission zones in cities oblige the use of Electric Commercial Vehicles as the traditional diesel trucks have limited access.

Better battery technology with increased energy density and faster charging capabilities makes the Electric Commercial Vehicles more viable. The integration of leading technologies like artificial intelligence, Internet of Things, and Advanced Driver-Assistance Systems results in improved vehicle efficiency while promoting safer and smarter operations.

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Key Players Listed in Electric Commercial Vehicle Market Are:

- Tesla (US)
- Continental (Germany)
- Siemens (Germany)
- Nissan (Japan)
- BYD (China)
- Daimler (Germany)
- ABB (Switzerland)
- Mitsubishi Electric (Japan)
- Proterra (US)
- LG Chem (South Korea)
- Zhongtong Bus Holding Co. Ltd (China)
- Panasonic (Japan). Delphi (US)
- Toshiba (Japan) and Ballard Power Systems (Canada)

Rising Consumer Awareness and Sustainability Expectations Drive Electric Commercial Vehicle Adoption.

The key factor driving the Electric Commercial Vehicle Market is rising consumer awareness about the environmental impact of traditional delivery systems. As sustainability becomes a priority for consumers, businesses are responding by integrating Electric Commercial Vehicles into their operations.

For instance, major e-commerce companies have already electrified significant portions of their delivery fleets, setting an industry benchmark for eco-friendly logistics. This transition aligns with consumer expectations for greener practices and reflects broader market trends. By adopting Electric Commercial Vehicles, companies not only meet these demands but also position themselves as environmentally responsible, which strengthens customer loyalty and market reputation.

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Electric Commercial Vehicle Market Segment Analysis

By Vehicle Type

Medium and heavy-duty trucks held 45% of the market share in 2023. These offer a large market for the logistically crucial long-haul and regional logistics, where established trucking routes and government incentives have made electrification more viable. Heavy-duty trucks are especially compelling for emission-reduction applications in heavy transport industries.

By Propulsion

BEVs accounted for 80% of the propulsion segment, which makes them the market leader. BEVs boast a high number of charging infrastructure, making the business take advantage of this practically and in terms of cost. The technology is mature and mainly adopted by key players in the market who look for an excellent balance between performance and sustainability. However, FCEVs, despite being promising for high-end applications, face restraints because of the limited hydrogen refueling infrastructure. In the coming years, FCEVs will likely gain their traction since infrastructure goes hand in hand with its growth.

Electric Commercial Vehicle Market Key Segmentation:

By Vehicle Type:

- Pickup Trucks
- Trucks (Medium and Heavy-duty Trucks)
- Vans (Light Vans and Full-size Vans)
- Buses & Coaches

By Propulsion:

- BEV
- FCEV

By Component:

- Battery Packs
- Onboard Chargers
- Electric Motors
- Inverters
- DC-DC Converters
- E-Axels (Including Gearboxes)
- Fuel-cell Stacks

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Regional Analysis:

Asia-Pacific is the largest region in the electric commercial vehicle market, with a market share of 55%. Factors like government subsidies, tax incentives, and stringent emission regulations have fueled the adoption of Electric Commercial Vehicles in the region. Moreover, the presence of robust infrastructure supports light-duty electric vehicles, making them ideal for use in urban logistics and delivery services.

The second-largest region is Europe, which has densely urbanized areas, where electric vans and light trucks provide a natural fit. The region boasts the strictest emission regulations in the world, pushing manufacturers and businesses toward cleaner technologies. Thus, the use of electric commercial vehicles becomes vital for last-mile delivery and urban logistics.

North America is presently the growth leader in the Electric Commercial Vehicle Market, attributable mainly to significant investment in more innovative electric vehicle models, including long-range electric trucks and feature-rich delivery vans. Developments here are further supported by incentives at both federal and state level to encourage companies to make the shift to electric fleets.

Recent Developments

May 2024: Panasonic Holdings Corporation and Marubeni Corporation announce the establishment of a joint venture to provide fleet management services for Electric Commercial Vehicles. Panasonic HD and Marubeni will strive to offer comprehensive support in the planning and operation of EVs for large fleet operators, to promote the widespread use of EVs and a carbon-free society.

September 2024: Daimler Truck's brand of all-electric vehicles, Rizon, announced the arrival of its first shipment of Class 4-5 vehicles in British Columbia. The company said this shipment marks Rizon's entry into the Canadian market following its initial launch in April.

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Contact Us:

Akash Anand
SNS Insider Pvt. Ltd
415-230-0044
info@snsinsider.com

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