

Electric Bus Market - A Global and Regional Analysis: Focus on Application, Propulsion, Battery Type, Length of Bus, Seating Capacity, Level of Autonomy, Range, Battery Capacity, Power Output, Charging Type, and Region - Analysis and Forecast, 2024-2034

<https://marketpublishers.com/r/E0DD48073471EN.html>

Date: August 2024

Pages: 0

Price: US\$ 4,950.00 (Single User License)

ID: E0DD48073471EN

Abstracts

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Introduction to the Electric Bus Market

The electric bus market has been rapidly gaining traction worldwide as urban areas seek sustainable and efficient transportation solutions. Electric buses, powered by electricity rather than traditional fossil fuels, offer numerous benefits, including reduced greenhouse gas emissions, lower operational costs, and quieter operation. These advantages make electric buses an attractive option for public transportation systems aiming to enhance environmental sustainability and improve urban air quality. In an optimistic forecast, the market, valued at \$15.90 billion in 2024, is projected to grow at a CAGR of 15.14%, reaching \$65.10 billion by 2034.

One of the key drivers behind the growth of the electric bus market has been the increasing implementation of stringent environmental regulations by governments globally. For instance, the European Union's Clean Vehicle Directive mandates that a certain percentage of new buses purchased by public authorities must be low-emission or zero-emission vehicles, including electric buses. Similarly, in the U.S., the Federal Transit Administration's (FTA) Low or No Emission Vehicle Program provides funding to

transit agencies to purchase electric buses and supporting infrastructure. According to the FTA, over \$180 million was allocated in 2020 alone to support the adoption of low-emission buses across the country. These initiatives are propelling the transition from diesel-powered buses to electric ones by providing financial incentives and regulatory support.

The market is also witnessing substantial investments in charging infrastructure, which is crucial for the widespread deployment of electric buses. The Chinese government, for example, has been at the forefront of this effort, with the Ministry of Transport aiming to install over 600,000 charging stations by 2025 to support its rapidly growing electric bus fleet. In Europe, the European Investment Bank (EIB) has provided significant loans to cities such as Paris and Amsterdam to develop extensive charging networks for electric buses.

Moreover, the electric bus market has been characterized by innovation and technological advancements. Manufacturers are continually enhancing the design and performance of electric buses, focusing on aspects such as battery longevity, energy efficiency, and passenger comfort. The introduction of autonomous driving features and smart grid integration are also shaping the future of the market. For example, the California Air Resources Board (CARB) has set a target for all public transit agencies in California to transition to 100% zero-emission buses by 2040, encouraging technological innovation in the sector. As cities around the world continue to prioritize sustainable urban mobility, the electric bus market is poised for significant expansion, playing a pivotal role in the transformation of public transportation systems.

Market Segmentation

Segmentation 1: by Type

City/Transit Buses

Coaches

Midibus

School Bus

Others

Segmentation 2: by Propulsion

Battery Electric Vehicles (BEVs)

Fuel Cell Electric Vehicles (FCEVs)

Others

Segmentation 3: by Battery Type

Lithium-ion Batteries

Lithium Iron Phosphate Batteries (LFP)

Lithium Nickel Manganese Cobalt Oxide Batteries (NMC)

Lithium Nickel Cobalt Aluminum Oxide Batteries (NCA)

Others

Segmentation 4: by Length of Bus

Upto 9 m

10-14 m

Above 14 m

Segmentation 5: by Seating Capacity

Upto 40 Seats

41-70 Seats

Above 70 Seats

Segmentation 6: by Level of Autonomy

Semi-Autonomous

Autonomous

Segmentation 7: by Range

Upto 200 Miles

Above 200 Miles

Segmentation 8: by Battery Capacity

Upto 400 kWh

Above 400 kWh

Segmentation 9: by Power Output

Upto 250 Kw

Above 250 Kw

Segmentation 10: by Charging Type

Plug-in Charging

Inductive Charging

Overhead Charging

In-Depot Charging

Segmentation 11: by Region

North America

Europe

Asia-Pacific

Rest-of-the-World

How Can This Report Add Value to an Organization?

Product/Innovation Strategy: The global electric bus market has been extensively segmented based on various categories, such as type, propulsion, battery type, length of bus, seating capacity, level of autonomy, range, battery capacity, power output, and charging type. This can help readers get a clear overview of which segments account for the largest share and which ones are well-positioned to grow in the coming years.

Competitive Strategy: A detailed competitive benchmarking of the players operating in the global electric bus market has been done to help the reader understand how players stack against each other, presenting a clear market landscape. Additionally, comprehensive competitive strategies such as partnerships, agreements, and collaborations will aid the reader in understanding the untapped revenue pockets in the market.

Key Market Players and Competition Synopsis

The companies that are profiled have been selected based on thorough secondary research, which includes analyzing company coverage, product portfolio, market penetration, and insights gathered from primary experts.

Some of the prominent companies in this market are:

BYD Company Ltd.

Proterra, Inc.

AB Volvo

VDL Groep bv

NFI Group

Yutong Bus Co., Ltd.

TATA Motors

Ashok Leyland

Key Questions Answered in this Report:

What are the main factors driving the demand for the electric bus market?

What are the major patents filed by the companies active in the electric bus market?

Who are the key players in the electric bus market, and what are their respective market shares?

What partnerships or collaborations are prominent among stakeholders in the electric bus market?

What are the strategies adopted by the key companies to gain a competitive edge in the electric bus market?

What is the futuristic outlook for the electric bus market in terms of growth potential?

What is the current estimation of the electric bus market, and what growth trajectory is projected from 2024 to 2034?

Which application and product segment is expected to lead the market over the forecast period (2024-2034)?

Which regions demonstrate the highest adoption rates for the electric bus market, and what factors contribute to their leadership?

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