Global Electric Bus - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts 2016 - 2029

Market Report | 2022-12-16 | 322 pages | Mordor Intelligence

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Report description:

The Global Electric Bus Market size is estimated at USD 45 billion in 2024, and is expected to reach USD 116.46 billion by 2029, growing at a CAGR of 20.95% during the forecast period (2024-2029).

Key Highlights
-Largest Segment by Fuel Type - HEV : Public and private investments made over the last two decades have developed the buses to compete with ICE-based buses. Which is making Hybrid buses the largest fuel type in global e-bus market.
-Fastest-growing Segment by Fuel Type - BEV : The government practices and private programs to cut carbon emission, and development in charging infrastructure is making BEV the fastest growing fuel type in buses Globally.
-Largest Segment by Country - US : China is a major player in the electric bus market, accounting for 98% of all-electric buses worldwide. This is due to the major e-bus manufacturers being from china.
-Second leading Market Player - HEV : The company has a strong focus on R&D activities. Variety of e bus models offering and strong hold on the Chinese market makes Zhongtong Bus Holding Co Ltd 2nd leading player in global bus market.

Electric Bus Market Trends

HEV is the largest segment by Fuel Type.

- Fuel constitutes a major part of the operating cost of any vehicle. Using an electric bus for public transport reduces fuel costs, as well as other upfront costs and the total cost of ownership. By 2030, the prices for electric buses are expected to decline to the

price level of diesel-fueled buses. Electric buses help reduce 81-83% of the maintenance and operating costs compared to a diesel-engine bus. The rising general awareness about air pollution, climate change, and increasing diesel prices are some of the factors incentivizing most state and city transport authorities to increasingly accommodate clean public transport solutions in their regional development plans.
- The e-bus market has the potential to fill the gaps in the public transport system. By reducing expenses related to operation and maintenance and cutting down hidden costs linked to public health and the environment, mass electrification of public buses may allow the concerned stakeholders to reap huge benefits and help strike a balance in providing returns between the service providers and the service users over the long run. With a strong government push for EV transition, the public transport authorities and e-bus suppliers may drive the market with the help of a proper regulatory framework and market mechanism.
- The e-bus ecosystem is being implemented in accordance with established government guidelines. However, there is an immediate challenge of setting up and managing e-bus charging stations in terms of planning, the extent of stakeholders' responsibilities, and operation, which must be addressed as a high priority to expedite the development of the e-bus ecosystem across the world.

North America is the largest segment by Region.

- Fuel constitutes a major part of the operating cost of any vehicle. With the increasing costs of fuel, using an electric bus for public transport reduces not only the fuel cost but also other upfront costs and the total cost of ownership. By 2030, the prices for electric buses are expected to decline to those of diesel-fueled buses. Electric buses help reduce 81-83% of the maintenance and operating costs compared to diesel-engine buses.
- An average diesel transit bus costs approximately USD 500,000, compared to USD 750,000 for an electric bus. Despite these higher upfront costs, electric buses are often a cost-efficient alternative, producing major savings over the course of their lifetimes by offering lower operating costs from reduced spending on maintenance and fuel while also providing greater predictability in costs due to the relative stability of electricity prices compared to fossil fuel prices. Electric buses are becoming more financially viable with favorable policies; they have substantially reduced maintenance and fuel costs. According to electric bus manufacturers, electric buses save USD 400,000 in fuel expenses and nearly USD 125,000 in maintenance costs, more than making up for the higher upfront cost.

- The aforementioned factors of the e-bus ecosystem are being implemented in accordance with established government guidelines. However, there are immediate challenges in setting up and managing e-bus charging stations in terms of planning, the extent of stakeholders' responsibilities, and operations that must be addressed on a high priority in order to expedite the development of the e-bus ecosystem across the world.

Electric Bus Industry Overview

The Global Electric Bus Market is fairly consolidated, with the top five companies occupying 67.30%. The major players in this market are Anhui Ankai Automobile Co. Ltd, BYD Company Limited, King Long United Automotive Industry Co. Ltd., Zhengzhou Yutong Group Co. Ltd. and Zhongtong Bus Holding Co. Ltd. (sorted alphabetically).

Additional Benefits:

- The market estimate (ME) sheet in Excel format

- 3 months of analyst support

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