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Electric Bus Battery Pack Market Size, Share & Trends Analysis Report By Propulsion (BEC, PHEV), By Battery Chemistry (LFP, NCA, NCM, MNC, Others), By Region, And Segment Forecasts, 2025 - 2030

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Abstracts

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Electric Bus Battery Pack Market Trends

The global electric bus battery pack market size was estimated at USD 4,292.2 million in 2024 and is expected t%li%expand at a CAGR of 12.5% from 2025 t%li%2030. A growing global push for sustainable transportation and reduced emissions in urban areas. Cities worldwide are implementing strict environmental regulations and setting ambitious zero-emission goals, prompting transit authorities t%li%transition their fleets from diesel t%li%electric buses.

Government incentives and subsidies play a crucial role in market growth. Many countries offer substantial financial support t%li%offset the higher initial costs of electric buses and their battery packs. China's New Energy Vehicle (NEV) subsidies have significantly boosted adoption, while the European Union's Clean Vehicles Directive mandates minimum procurement targets for clean buses. In the U.S., the Federal Transit Administration's Low or N%li%Emission Vehicle Program provides funding for state and local governments t%li%purchase electric buses and related infrastructure, thus boosting the market’s growth.

Rapid urbanization has led t%li%a surge in public transportation demand, which necessitates efficient, eco-friendly alternatives t%li%traditional buses. Cities worldwide are adopting electric buses t%li%combat air pollution and reduce operational costs. For

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instance, Shenzhen, China, became the first city t%li%fully electrify its bus fleet, deploying over 16,000 electric buses. This shift drives the demand for high-performance, long-lasting battery packs, as urban transit authorities prioritize vehicles with higher energy density and extended range.

Technological advancements and declining battery costs are als%li%significantly benefiting the electric bus battery pack industry. The cost of lithium-ion batteries has decreased dramatically over the past decade, making electric buses more commercially viable. Improvements in battery chemistry and energy density have als%li%addressed range anxiety concerns, with modern electric buses capable of operating for entire days on a single charge. For instance, BYD's latest battery packs offer ranges exceeding 300 kilometers, while manufacturers such as CATL and LG Energy Solution continue t%li%develop advanced battery technologies with faster charging capabilities and longer lifespans. Additionally, innovations in battery thermal management systems have enhanced performance and safety, particularly in extreme weather conditions, making electric buses more reliable for year-round operation.

Global Electric Bus Battery Pack Market Report Segmentation

This report forecasts revenue growth at global, regional, and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 t%li%2030. For this study, Grand View Research has segmented the global electric bus battery pack market report on the basis of propulsion, battery chemistry, and region:

Propulsion Outlook (Revenue, USD Million, 2018 - 2030)

BEV

PHEV

Battery Chemistry Outlook (Revenue, USD Million, 2018 - 2030)

LFP

NCA

NCM

MNC

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Others

Regional Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Spain

Russia

Asia Pacific

China

India

Japan

Australia

Central & South America

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Brazil

Argentina

Middle East & Africa

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UAE

South Africa

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