

UAE Electric Bus Market By Consumer Segment (Government, Fleet Operator), By Length (6-8m, 9-12m, & above 12m), By Seating Capacity (Up to 30, 31-40-Seater, & above 40), By Propulsion Type (Battery electric Bus, Hybrid Electric Bus, Fuel Cell Electric Bus), By Regional, Competition Forecast & Opportunities, 2018 - 2028F

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Report description:

The UAE Electric Bus Market achieved a valuation of USD 490 million in 2022 and is poised for substantial growth during the forecast period, with a projected Compound Annual Growth Rate (CAGR) of 8.57% until 2028. The electric bus market in the United Arab Emirates (UAE) embodies a dynamic landscape characterized by the convergence of technological innovation, sustainability initiatives, and the region's dedication to carbon emissions reduction. Notably recognized for its ambitious economic diversification and developmental undertakings, the UAE is progressively adopting electric buses as a forward-looking solution to address urban mobility challenges and environmental considerations.

Government Initiatives and Visionary Policies: These play a pivotal role in shaping the UAE's electric bus market. The UAE Vision 2021 and the Dubai Clean Energy Strategy 2050 establish comprehensive objectives for transitioning towards cleaner and more sustainable transportation systems. Such steadfast commitments are evident in the government's proactive promotion of electric vehicles, including electric buses. Through incentives, subsidies, and regulatory frameworks, the UAE is fostering the adoption of electric buses among public transportation agencies and private operators.

Technological Innovation and Infrastructure Development: These are integral drivers of growth in the UAE's electric bus market. The country's advancements in smart city technologies and sustainable solutions have translated into the incorporation of cutting-edge features in electric buses. These features encompass advanced battery systems, energy-efficient technologies, and connectivity solutions. Concurrently, the UAE's strategic focus on charging infrastructure development addresses range limitations and facilitates the seamless integration of electric buses into urban transportation networks.

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Urban Sustainability and Air Quality Improvement: These factors are propelling the UAE's interest in electric buses. The rapid urbanization of certain areas in the country has given rise to air quality challenges, prompting a shift towards cleaner modes of transportation. Electric buses, with their zero tailpipe emissions, align perfectly with the UAE's objectives of improving air quality and minimizing the negative health effects associated with vehicular pollution.

Economic Diversification and Industry Collaboration: These factors are fostering partnerships that contribute to the growth of the UAE's electric bus market. The country's desire to diversify its economy and decrease its reliance on fossil fuels has spurred collaborations between local and international manufacturers, technology providers, and investors. This collaborative ecosystem not only drives technological advancements but also positions the UAE as a potential hub for electric bus manufacturing and export within the region.

International Image and Prestige: Embracing electric buses aligns seamlessly with the UAE's commitment to sustainability and innovative technologies. This stance enhances the UAE's international image as a forward-thinking and environmentally conscious nation. By adopting electric buses and advocating for clean mobility solutions, the UAE solidifies its reputation and leadership on the global stage.

Key Market Challenges:

High Temperatures and Battery Performance: The UAE's hot climate presents a challenge for electric bus battery performance and longevity. High temperatures can impact battery efficiency, energy storage capacity, and overall battery life. Ensuring that electric bus batteries are designed to withstand and operate optimally under extreme heat is crucial to maintain consistent performance and avoid costly replacements.

Charging Infrastructure in Urban Development: Rapid urban development poses challenges for strategically implementing electric bus charging infrastructure. Proper placement of charging stations requires careful planning to prevent congestion and ensure convenient access for operators. Coordinating the expansion of charging infrastructure with urban development is essential to support the growing electric bus fleet.

Initial Cost and Total Cost of Ownership: The upfront cost of electric buses and charging infrastructure can be higher than that of conventional diesel buses. Evaluating the total cost of ownership over the vehicle's lifespan, including factors like energy savings and maintenance costs, is necessary to justify the investment in electric buses.

Charging Time and Vehicle Downtime: Electric buses have longer charging times compared to refueling diesel buses, impacting operational schedules and vehicle utilization. Optimizing charging strategies, such as fast-charging technology and efficient route planning, is crucial to minimize downtime and maintain reliable transportation services.

Public Acceptance and Infrastructure Awareness: Despite the UAE's forward-looking stance, public awareness and acceptance of electric buses may need fostering. Educating passengers and stakeholders about the benefits, availability of charging infrastructure, and operational reliability can contribute to greater public support for electric buses.

Integration with Existing Systems: Integrating electric buses into existing transportation systems requires coordination to minimize disruptions and complexity. Developing operational plans that consider the unique characteristics of electric buses is essential for a smooth transition.

Battery Recycling and End-of-Life Management: Proper recycling and disposal of end-of-life batteries are crucial for minimizing environmental impact and ensuring the long-term sustainability of the electric bus market.

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Key Market Trends:

Smart City Initiatives and Technological Integration: The UAE's focus on smart cities is driving the integration of advanced technologies into its electric bus market. These technologies optimize energy consumption, enhance passenger comfort, and contribute to operational efficiency.

Government-Led Sustainability Goals: Ambitious sustainability goals are driving the adoption of electric buses, aligning with initiatives like the UAE Vision 2021 and Dubai Clean Energy Strategy 2050.

Charging Infrastructure Development: Robust charging infrastructure development ensures reliable access to charging points, mitigating range anxiety and promoting seamless integration.

Public Awareness and Education: Public awareness campaigns build trust, encourage ridership, and foster support for cleaner transportation alternatives.

Global Industry Collaboration: Partnerships between local and international entities drive innovation and position the UAE as a regional player in electric mobility.

Economic Diversification and Investment: The UAE's economic diversification drive directs resources towards clean energy projects, including electric buses, as a growth opportunity.

Regional Insights:

Dubai: The city leads the UAE's electric bus market due to its commitment to sustainability, ambitious goals, and robust charging infrastructure. Visionary policies and technological integration are propelling Dubai's dominance in the field.

Key Market Players

BYD Middle East

Al Fahim Group: Emirates Motor Company

EVOTEQ

Future Mobility Solutions

Al Naboodah Group Enterprises LLC

Al-Futtaim Automotive

Swaidan Trading Co. LLC

Arabian Automobiles Company

Yutong Bus Middle East L.L.C

Report Scope:

In this report, the UAE Electric Bus Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

- UAE Electric Bus Market, By Consumer Segment:

o Government

o Fleet Operator

- UAE Electric Bus Market, By Length:

o 6-8m

o 9-12m

o Above 12m

- UAE Electric Bus Market, By Seating Capacity:

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- o Up to 30

- o 31-40-Seater

- o Above 40

- UAE Electric Bus Market, By Propulsion Type:

- o Battery electric Bus

- o Hybrid Electric Bus

- o Fuel Cell Electric Bus

- UAE Electric Bus Market, Region:

- o Dubai

- o Abu Dhabi

- o Sharjah

- o Rest of UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the UAE Electric Bus Market.

Available Customizations:

UAE Electric Bus Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

- Detailed analysis and profiling of additional market players (up to five).

Table of Contents:

1. Introduction

1.1. Product Overview

1.2. Key Highlights of the Report

1.3. Market Coverage

1.4. Market Segments Covered

1.5. Research Tenure Considered

2. Research Methodology

2.1. Objective of the Study

2.2. Baseline Methodology

2.3. Key Industry Partners

2.4. Major Association and Secondary Sources

2.5. Forecasting Methodology

2.6. Data Triangulation & Validation

2.7. Assumptions and Limitations

3. Executive Summary

3.1. Market Overview

3.2. Market Forecast

3.3. Key Regions

3.4. Key Segments

4. Impact of COVID-19 on UAE Electric Bus Market

5. Voice of Customer Analysis

5.1. Brand Awareness

5.2. Factors Influencing Purchase Decision

5.3. Brand Satisfaction

6. UAE Electric Bus Market Outlook

6.1. Market Size & Forecast

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- 6.1.1. By Volume
- 6.1.2. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Consumer Segment Market Share Analysis (Government, Fleet Operator)
 - 6.2.2. By Length Market Share Analysis (6-8m, 9-12m, & above 12m)
 - 6.2.3. By Seating Capacity Market Share Analysis (Up to 30, 31-40-Seater, & above 40)
 - 6.2.4. By Propulsion Type Market Share Analysis (Battery electric Bus, Hybrid Electric Bus, Fuel Cell Electric Bus)
 - 6.2.5. By Regional Market Share Analysis
 - 6.2.5.1. Dubai Market Share Analysis
 - 6.2.5.2. Abu Dhabi Market Share Analysis
 - 6.2.5.3. Sharjah Market Share Analysis
 - 6.2.5.4. Rest of UAE Market Share Analysis
 - 6.2.6. By Company Market Share Analysis (Top 5 Companies, Others - By Value, 2022)
- 6.3. UAE Electric Bus Market Mapping & Opportunity Assessment
 - 6.3.1. By Consumer Segment Market Mapping & Opportunity Assessment
 - 6.3.2. By Length Market Mapping & Opportunity Assessment
 - 6.3.3. By Seating Capacity Market Mapping & Opportunity Assessment
 - 6.3.4. By Propulsion Type Market Mapping & Opportunity Assessment
 - 6.3.5. By Regional Market Mapping & Opportunity Assessment
- 7. UAE Electric Bus Up to 30-Seater Market Outlook
 - 7.1. Market Size & Forecast
 - 7.1.1. By Volume
 - 7.1.2. By Value
 - 7.2. Market Share & Forecast
 - 7.2.1. By Consumer Segment Market Share Analysis
 - 7.2.2. By Length Market Share Analysis
 - 7.2.3. By Propulsion Type Market Share Analysis
- 8. UAE Electric Bus 31-40-Seater Market Outlook
 - 8.1. Market Size & Forecast
 - 8.1.1. By Volume
 - 8.1.2. By Value
 - 8.2. Market Share & Forecast
 - 8.2.1. By Consumer Segment Market Share Analysis
 - 8.2.2. By Length Market Share Analysis
 - 8.2.3. By Propulsion Type Market Share Analysis
- 9. UAE Electric Bus Above 40-Seater Market Outlook
 - 9.1. Market Size & Forecast
 - 9.1.1. By Volume
 - 9.1.2. By Value
 - 9.2. Market Share & Forecast
 - 9.2.1. By Consumer Segment Market Share Analysis
 - 9.2.2. By Length Market Share Analysis
 - 9.2.3. By Propulsion Type Market Share Analysis
- 10. Porter's Five Forces Model
 - 10.1. Competitive Rivalry
 - 10.2. Bargaining Powers of Suppliers
 - 10.3. Bargaining Powers of Buyers

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- 10.4.□Threat of New Entrants
- 10.5.□Threat of Substitutes
- 11.□SWOT Analysis
 - 11.1.□Strength
 - 11.2.□Weakness
 - 11.3.□Opportunities
 - 11.4.□Threats
- 12.□Market Dynamics
 - 12.1.□Market Drivers
 - 12.2.□Market Challenges
- 13.□Market Trends and Developments
- 14.□Competitive Landscape
 - 14.1.□Company Profiles (Up to 10 Major Companies)
 - 14.1.1.□BYD Middle East
 - 14.1.1.1.□Company Details
 - 14.1.1.2.□Key Product Offered
 - 14.1.1.3.□Recent Developments
 - 14.1.1.4.□Key Management Personnel
 - 14.1.2.□Al Fahim Group: Emirates Motor Company
 - 14.1.2.1.□Company Details
 - 14.1.2.2.□Key Product Offered
 - 14.1.2.3.□Recent Developments
 - 14.1.2.4.□Key Management Personnel
 - 14.1.3.□EVOTEQ
 - 14.1.3.1.□Company Details
 - 14.1.3.2.□Key Product Offered
 - 14.1.3.3.□Recent Developments
 - 14.1.3.4.□Key Management Personnel
 - 14.1.4.□Future Mobility Solutions
 - 14.1.4.1.□Company Details
 - 14.1.4.2.□Key Product Offered
 - 14.1.4.3.□Recent Developments
 - 14.1.4.4.□Key Management Personnel
 - 14.1.5.□Al Naboodah Group Enterprises LLC
 - 14.1.5.1.□Company Details
 - 14.1.5.2.□Key Product Offered
 - 14.1.5.3.□Recent Developments
 - 14.1.5.4.□Key Management Personnel
 - 14.1.6.□Al-Futtaim Automotive
 - 14.1.6.1.□Company Details
 - 14.1.6.2.□Key Product Offered
 - 14.1.6.3.□Recent Developments
 - 14.1.6.4.□Key Management Personnel
 - 14.1.7.□Swaidan Trading Co. LLC
 - 14.1.7.1.□Company Details
 - 14.1.7.2.□Key Product Offered
 - 14.1.7.3.□Recent Developments

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- 14.1.7.4.□Key Management Personnel
- 14.1.8.□Arabian Automobiles Company
 - 14.1.8.1.□Company Details
 - 14.1.8.2.□Key Product Offered
 - 14.1.8.3.□Recent Developments
 - 14.1.8.4.□Key Management Personnel
- 14.1.9.□Yutong Bus Middle East L.L.C
 - 14.1.9.1.□Company Details
 - 14.1.9.2.□Key Product Offered
 - 14.1.9.3.□Recent Developments
 - 14.1.9.4.□Key Management Personnel
- 15.□Strategic Recommendations
 - 15.1.□Key Focus Areas
 - 15.1.1.□Target Countries
 - 15.1.2.□Target Seating Capacity
 - 15.1.3.□Target Propulsion Type
- 16.□About Us & Disclaimer

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