

North America Electric Vehicle Market by Vehicle Type (Passenger Vehicle, LCV, HCV, Two-wheeler, e-Scooters & Bikes); Propulsion Type (BEV, FCEV, HEV); Power Output (Less Than 100kW, 100 kW to 250 kW); End Use, Charging Standard, and Geography - Regional Forecast to 2029

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Abstracts

North American Electric Vehicle Market by Vehicle Type (Passenger Vehicle, LCV, HCV, Two-wheeler), Propulsion Type (BEV, FCEV, HEV), Power Output (Less Than 100kW, 100 kW to 250 kW); End Use, Charging Standard, and Country—Regional Forecast to 2029

The research report titled, 'North American Electric Vehicle Market by Vehicle Type (Passenger Vehicle, LCV, HCV, Two-wheeler), Propulsion Type (BEV, FCEV, HEV), Power Output (Less Than 100kW, 100 kW to 250 kW); End Use, Charging Standard, and Country—Regional Forecast to 2029', provides an in-depth analysis of the electric vehicles market across North America and emphasizes the current market size, market shares, recent developments, and forecast till 2029.

The North America Electric Vehicle Market is expected to record a CAGR of 39.4% from 2022 to 2029 to reach \$570.47 billion by 2029 from an estimated \$55.81 billion in 2022. By volume, this market is expected to reach 7.62 million units by 2029 from an estimated 1.54 million units in 2022, at a CAGR of 25.7% during the forecast period.

The growth of this market is attributed to supportive government policies and regulations, rising environmental concerns, increasing adoption of electric mobility. The growing adoption of autonomous driving vehicles, increasing adoption of electric vans

and trucks for delivery, and increasing trend of shared mobility offer lucrative growth opportunities for this market's growth.

Based on vehicle type, the light commercial vehicles segment is expected to grow at the highest CAGR during the forecast period. The high growth is mainly driven by the growing awareness regarding the role of electric vehicles in reducing emissions, increase in demand for electric vehicles to reduce fleet emissions, and stringent government rules and regulations towards vehicle emissions. Electric LCVs are a key element of urban distribution and transport systems and offer a promising low-emission solution. They require low maintenance and have relatively lower operating costs, as there is no need to lubricate the engines nor the maintenance costs associated with gas engines. Electric LCVs contribute to reducing greenhouse gas emissions and reducing the dependence on fuels. These are the key factors driving the adoption of electric light commercial vehicles.

Based on propulsion type, the fuel cell electric vehicles segment is expected to grow at the highest CAGR during the forecast period. The high growth is mainly driven by the increasing demand for vehicles with low carbon emissions, strict carbon emission norms, a growing emphasis on the adoption of FCEVs due to advantages such as fast refueling and increasing government initiatives and investments for advancing fuel cell technology. Fuel cells are lighter and smaller, more expensive than conventional electric cells and hybrid cells, and are suitable for medium-large and long-range vehicles. However, insufficient hydrogen infrastructure and high vehicle costs are the major factors restraining the growth of this segment. To counter this, governments across the region are investing in hydrogen fuel cell charging stations and technologies.

Based on power output, the more than 250kW segment is expected to grow at the highest CAGR during the forecast period. The growth of this segment is attributed to the increasing adoption of electric buses and trucks for heavy applications, the implementation of numerous wireless EV charging pilot projects for heavy commercial vehicles, and the increasing adoption of electric mobility in emerging economies. Several companies are focused on ultra-high-power charging systems due to the growing need to produce new electric passenger vehicles, e-bus, and e-truck models. For instance, in 2019, Tesla, Inc. (U.S.) introduced the third generation of its superchargers called the ultra-fast "Supercharger V3," having a power output of up to 250kW. The supercharger allows for fast charging, reducing charging time by an average of approximately 50%.

Based on end use, the commercial use segment is expected to grow at the highest

CAGR during the forecast period. The growth is mainly driven by the increase in fuel prices and stringent emission norms set by governments, the growing adoption of autonomous delivery vehicles, and the increasing adoption of electric buses and trucks. Electric vehicles being used for commercial applications will be an increasingly common sight on roads in the future. Electric commercial vehicles help lower greenhouse gas emissions, reduce dependence on fossil fuels, ensure smooth operation, and meet the latest emissions regulations.

Based on country, Canada is expected to record the highest CAGR during the forecast period. The local government's policies majorly drive the Canadian EV market and incentives, increased driving range, and affordable vehicle prices due to increased spending of consumers on environment-friendly automobiles and developing infrastructure resulting in faster charging times. Owing to these factors, in 2018, Canada registered a sale of 43,000 units of EVs, positioning itself among the top 10 leading countries in the global market.

The key players operating in the North American electric vehicles market are AB Volvo (Sweden), BMW Group (Germany), BYD Company Ltd. (China), Daimler AG (Germany), Faraday & Future Inc. (U.S.), Tata Motors Limited (India), Ford Motor Company (U.S.), General Motors Company (U.S.), Honda Motor Co., Ltd. (Japan), Hyundai Motor Company (South Korea), Zero Electric Vehicles Inc. (U.S.), Nissan Motor Co., Ltd. (Japan), Rivian LLC (U.S.), Tesla, Inc. (U.S.), Volkswagen AG (Germany).

Key Questions Answered in the Report-

Which are the high growth market segments in terms of vehicle type, propulsion type, power output, charging standard, end use, and country?

What is the historical market size for electric vehicles across North America?

What are the market forecasts and estimates for the period 2022-2029?

What are the major drivers, restraints, opportunities, and challenges in the North American electric vehicles market?

Who are the major players in the market, and what are their market shares?

How is the competitive landscape for the North American electric vehicles

market?

What are the recent developments in the North American electric vehicles market?

What are the different strategies adopted by the major players in the market?

Which are the high-growth countries?

Who are the local emerging players in the North American electric vehicles market, and how do they compete with other players?

Scope of the Report

North American Electric Vehicles Market, by Vehicle Type

Passenger Vehicles

Light Commercial Vehicles

Heavy Commercial Vehicles

Two-wheelers

e-Scooters & Bikes

North American Electric Vehicles Market, by Propulsion Type

Hybrid Electric Vehicles

Pure Hybrid Electric Vehicles

Plug-In Hybrid Electric Vehicles

Battery Electric Vehicles

Fuel Cell Electric Vehicles

North American Electric Vehicles Market, by Power Output

Less Than 100 KW

100 KW to 250 KW

More Than 250 KW

North American Electric Vehicles Market, by End Use

Private Use

Commercial Use

Shared Mobility

Micromobility

Public Transport

Industrial Use

North American Electric Vehicles Market, by Country

U.S.

Canada

Contents

1. INTRODUCTION

- 1.1. Market Definition
- 1.2. Market Ecosystem
- 1.3. Currency and Limitations
- 1.4. Key Stakeholders

2. RESEARCH METHODOLOGY

- 2.1. Research Process
- 2.2. Data Collection & Validation
 - 2.2.1. Secondary Research
 - 2.2.2. Primary Research
- 2.3. Market Assessment
 - 2.3.1. Market Size Estimation
 - 2.3.1.1. Bottom-Up Approach
 - 2.3.1.2. Growth Forecast
 - 2.3.1.3. Covid-19 Impact Assessment
- 2.4. Assumptions for the Study

3. EXECUTIVE SUMMARY

4. THE IMPACT OF COVID-19

5. MARKET INSIGHTS

- 5.1. Introduction
- 5.2. Market Dynamics
 - 5.2.1. Drivers
 - 5.2.1.1. Supportive Government Policies and Regulations
 - 5.2.1.2. Rising Deployment of EV Charging Stations by Shared Mobility Operators
 - 5.2.1.3. Increasing Investments in EV Ecosystem
 - 5.2.2. Restraints
 - 5.2.2.1. Lack of Consumer Adoption of EVs
 - 5.2.3. Opportunities
 - 5.2.3.1. Decreasing Prices of Batteries
 - 5.2.3.2. Fleet Electrification Target of Government across the Region

5.2.4. Challenges

5.2.4.1. Range Anxiety of Electric Vehicles

5.2.4.2. Lack of Fast-Charging Infrastructure

5.2.5. Trend

5.2.5.1. Increasing Investments in R&D for Smart Charging Systems

5.3. Value Chain Analysis

6. NORTH AMERICA ELECTRIC VEHICLE MARKET, BY VEHICLE TYPE

6.1. Introduction

6.2. Passenger Vehicles

6.3. Light Commercial Vehicles

6.4. Heavy Commercial Vehicles

6.5. E-Scooters & Bikes

6.6. Two-Wheelers

7. NORTH AMERICA ELECTRIC VEHICLE MARKET, BY PROPULSION TYPE

7.1. Introduction

7.2. Hybrid Electric Vehicles

7.2.1. Pure Hybrid Electric Vehicles

7.2.2. Plug-In Hybrid Electric Vehicles

7.3. Battery Electric Vehicles

7.4. Fuel Cell Electric Vehicles

8. NORTH AMERICA ELECTRIC VEHICLE MARKET, BY POWER OUTPUT

8.1. Introduction

8.2. Less than 100kW

8.3. 100kW to 250kW

8.4. More than 250kW

9. NORTH AMERICA ELECTRIC VEHICLE MARKET, BY END USE

9.1. Introduction

9.2. Private Use

9.3. Commercial Use

9.3.1. Shared Mobility

9.3.2. Public Transport

- 9.3.3. Micromobility
- 9.4. Industrial Use

10. NORTH AMERICA ELECTRIC VEHICLE MARKET, BY CHARGING STANDARD

- 10.1. Introduction
- 10.2. CHArge de MOve (CHADEMO)
- 10.3. Combined Charging System (CCS)
- 10.4. Tesla Supercharger
- 10.5. Type 1 (SAE J1772)
- 10.6. Type 2 (IEC 62196)

11. NORTH AMERICA ELECTRIC VEHICLE MARKET, BY GEOGRAPHY

- 11.1. Introduction
- 11.2. U.S.
- 11.2. Canada

12. COMPETITIVE LANDSCAPE

- 12.1. Introduction
- 12.2. Key Growth Strategies
- 12.3. Market Share Analysis
 - 12.3.1. Tesla, Inc.
 - 12.3.2. Volkswagen AG
 - 12.3.3. BYD Company Ltd.

13. COMPANY PROFILES (BUSINESS OVERVIEW, FINANCIAL OVERVIEW, PRODUCT PORTFOLIO, STRATEGIC DEVELOPMENTS)

- 13.1. Tesla, Inc.
- 13.2. BMW Group
- 13.3. BYD Company Ltd.
- 13.4. Volkswagen AG
- 13.5. Hyundai Motor Company
- 13.6. AB Volvo
- 13.7. Daimler AG
- 13.8. Ford Motor Company
- 13.9. General Motors Company

- 13.10. Honda Motor Co., Ltd.
- 13.11. Nissan Motor Co., Ltd.
- 13.12. Jaguar Land Rover Automotive PLC
- 13.13. Faraday & Future Inc.
- 13.14. Zero Electric Vehicles Inc.
- 13.15. Rivian, LLC

14. APPENDIX

- 14.1. Questionnaire
- 14.2. Available Customization

List Of Tables

LIST OF TABLES

Table 1 Market Size and CAGR (USD Million)

Table 2 North America Electric Vehicles Market Size, by Vehicle Type, 2020–2029 (USD Million)

Table 3 North America Electric Vehicles Market Volume, by Vehicle Type, 2020–2029 (Thousand Units)

Table 4 North America Electric Passenger Vehicles Market Size, by Country/Region, 2020–2029 (USD Million)

Table 5 North America Electric Light Commercial Vehicles Market Size, by Country/Region, 2020–2029 (USD Million)

Table 6 North America Electric Heavy Commercial Vehicles Market Size, by Country/Region, 2020–2029 (USD Million)

Table 7 North America Electric E-Scooters & Bikes Market Size, by Country/Region, 2020–2029 (USD Million)

Table 8 North America Electric Two-Wheelers Market Size, by Country/Region, 2020–2029 (USD Million)

Table 9 North America Electric Vehicles Market Size, by Propulsion Type, 2020–2029 (USD Million)

Table 10 North America Hybrid Vehicles Market Size, by Type, 2020–2029 (USD Million)

Table 11 Hybrid Vehicles Market Size, by Country, 2020–2029 (USD Million)

Table 12 North America Pure Hybrid Electric Vehicles Market Size, by Country, 2020–2029 (USD Million)

Table 13 North America Plug-In Hybrid Electric Vehicles Market Size, by Country, 2020–2029 (USD Million)

Table 14 North America Battery Electric Vehicles Market Size, by Country/Region, 2020–2029 (USD Million)

Table 15 North America Fuel Cell Electric Vehicles Market Size, by Country, 2020–2029 (USD Million)

Table 16 North America Electric Vehicles Market Size, by Power Output, 2020–2029 (USD Million)

Table 17 North America Less Than 100kw Electric Vehicles Market Size, by Country, 2020–2029 (USD Million)

Table 18 North America 100kw to 250kw Electric Vehicles Market Size, by Country, 2020–2029 (USD Million)

Table 19 North America More Than 250kw Electric Vehicles Market Size, by Country,

2020–2029 (USD Million)

Table 20 North America Electric Vehicles Market Size, by End Use, 2020–2029 (USD Million)

Table 21 North America Electric Vehicles Market Size for Private Use, by Country, 2020–2029 (USD Million)

Table 22 North America Electric Vehicles Market Size, by Commercial Use, 2020–2029 (USD Million)

Table 23 North America Electric Vehicles Market Size for Commercial Use, by Country, 2020–2029 (USD Million)

Table 24 North America Electric Vehicles Market Size for Shared Mobility, by Country, 2020–2029 (USD Million)

Table 25 North America Electric Vehicles Market Size for Public Transport, by Country/Region, 2020–2029 (USD Million)

Table 26 North America Electric Vehicles Market Size for Micromobility, by Country, 2020–2029 (USD Million)

Table 27 North America Electric Vehicles Market Size for Industrial Use, by Country/Region, 2020–2029 (USD Million)

Table 28 North America Electric Vehicles Market Size, by Country, 2020-2029 (USD Million)

Table 29 North America Electric Vehicles Market Volume, by Country, 2020-2029 (Thousand Units)

Table 30 U.S.: Electric Vehicles Market Size, by Vehicle Type, 2020–2029 (USD Million)

Table 31 U.S.: Electric Vehicles Market Volume, by Vehicle Type, 2020–2029 (Thousand Units)

Table 32 U.S.: Electric Vehicles Market Size, by Propulsion Type, 2020–2029 (USD Million)

Table 33 U.S.: Hybrid Vehicles Market Size, by Type, 2020–2029 (USD Million)

Table 34 U.S.: Electric Vehicles Market Size, by Power Output, 2020–2029 (USD Million)

Table 35 U.S.: Electric Vehicles Market Size, by End Use, 2020–2029 (USD Million)

Table 36 U.S.: Electric Vehicles Market Size for Commercial Use by Type, 2020–2029 (USD Million)

Table 37 Canada: Electric Vehicles Market Size, by Vehicle Type, 2020–2029 (USD Million)

Table 38 Canada: Electric Vehicles Market Volume, by Vehicle Type, 2020–2029 (Units Thousand)

Table 39 Canada: Total Electric Vehicle Fleet Size, by Vehicle Type, 2020-2029, (Thousand Units)

Table 40 Ontario: Total Electric Vehicle Fleet Size, by Vehicle Type, 2020-2029,

(Thousand Units)

Table 41 Canada: Electric Vehicles Market Size, by Propulsion Type, 2020–2029 (USD Million)

Table 42 Canada: Hybrid Vehicles Market Size, by Type, 2020–2029 (USD Million)

Table 43 Canada: Electric Vehicles Market Size, by Power Output, 2020–2029 (USD Million)

Table 44 Canada: Electric Vehicles Market Size, by End Use, 2020–2029 (USD Million)

Table 45 Canada: Electric Vehicles Market Size for Commercial Use by Type, 2020–2029 (USD Million)

Table 46 Electric Vehicles Market: Recent Developments, by Company, 2019–2021

List Of Figures

LIST OF FIGURES

Figure 1 Currency and Limitations

Figure 2 Research Process

Figure 3 Key Secondary Sources

Figure 4 Primary Research Techniques

Figure 5 Key Executives Interviewed

Figure 6 Market Size Estimation

Figure 7 Key Insights

Figure 8 North America Electric Vehicles Market, by Vehicle Type, 2029 (USD Million)

Figure 9 North America Electric Vehicles Market, by Vehicle Type, 2029 (Thousand Units)

Figure 10 North America Electric Vehicles Market, by Propulsion Type, 2029 (USD Million)

Figure 11 North America Electric Vehicles Market, by Power Output, 2029 (USD Million)

Figure 12 North America Electric Vehicles Market, by End Use, 2029, (USD Million)

Figure 13 Geographic Snapshot: North America Electric Vehicles Market, (Value Share & CAGR)

Figure 14 Geographic Snapshot: North America Electric Vehicles Market, (Volume Share & CAGR)

Figure 15 The Impact of COVID-19 On the North America Electric Vehicles Market

Figure 16 Global EV Battery Pack Prices, 2016-2020 (USD Per KWh)

Figure 17 Electric Vehicles Value Chain

Figure 18 North America Electric Vehicles Market Size, by Vehicle Type, 2022–2029 (USD Million)

Figure 19 North America Electric Vehicles Market Volume, by Vehicle Type, 2022–2029 (Thousand Units)

Figure 20 North America Electric Vehicles Market Size, by Propulsion Type, 2022–2029 (USD Million)

Figure 21 North America Electric Vehicles Market Size, by Power Output, 2022–2029 (USD Million)

Figure 22 North America Electric Vehicles Market Size, by End Use, 2022–2029 (USD Million)

Figure 23 North America Electric Vehicles Market Size, by Geography, 2022–2029 (USD Million)

Figure 24 North America Electric Vehicles Market Volume, by Geography, 2022–2029 (Thousand Units)

- Figure 25 Key Growth Strategies Adopted by Leading Players, 2019–2021
- Figure 26 Market Share Analysis: North America Electric Vehicles Market, 2021
- Figure 27 Tesla, Inc.: Financial Overview (2021)
- Figure 28 BMW Group: Financial Overview (2021)
- Figure 29 BYD Company Ltd.: Financial Overview (2020)
- Figure 30 Volkswagen AG: Financial Overview (2021)
- Figure 31 Hyundai Motor Company: Financial Overview (2021)
- Figure 32 AB Volvo: Financial Overview (2021)
- Figure 33 Daimler AG: Financial Overview (2021)
- Figure 34 Ford Motor Company: Financial Overview (2021)
- Figure 35 General Motors Company: Financial Overview (2021)
- Figure 36 Honda Motor Co., Ltd.: Financial Overview (2021)
- Figure 37 Nissan Motor Co., Ltd.: Financial Overview (2021)
- Figure 38 Jaguar Land Rover Automotive PLC: Financial Overview (2021)

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