

# **Electric Van Market by Range (up to 100 miles, 100-200 miles, & above 200 miles), Battery Capacity (up to 50 kWh & above 50 kWh), Battery Type, Propulsion (BEV, FCEV, & PHEV), End Use and Region - Global Forecast to 2030**

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## **Abstracts**

The electric van market is projected to reach 1,082.9 thousand units by 2030 from 106.8 thousand units in 2022, at a CAGR of 33.6% from 2022 to 2030. The increasing focus of countries on promoting the electrification of mass transit solutions due to increased concerns over pollution and government support in terms of subsidies and grants are propelling the growth of the electric van market.

“Reduction in battery prices”

Research is underway to increase the pack size of batteries to support a range of electric vans and reduce costs. The research focuses on conventional lithium-ion, advanced lithium-ion using an intermetallic anode (silicon alloy composite), and future advanced lithium-ion (lithium metal, including lithium-sulfur) batteries. In addition, companies are developing innovative battery technologies to stay competitive in the industry. For instance, ElectRoad's battery allows EVs to use very small and inexpensive batteries only for acceleration. Since the battery is only used for about 6% of the vehicle running time, it can increase the battery life by several years. Advancements in technology have also enabled wireless charging while driving, which is a dynamic charging technology that can also help reduce vehicle weight and optimize energy use. In April 2022, NITI Aayog, a policy think tank of the Government of India, announced its plan to reduce the goods and services tax on lithium-ion batteries from 18% to 5%.

### “Lower emission compared to other vehicles”

The use of fuel cells in electric vans has resulted in the provision of reliable power for up to 18 hours with no emissions except water vapor. FCEVs use pure hydrogen as fuel. The residue of hydrogen fuel is only water and heat. Hence, no harmful substances, such as greenhouse gases and particulate matter, are emitted by these vehicles. The reduction of greenhouse gases through the use of FCEVs acts as a growth driver for the overall automotive fuel cell market. Fuels such as diesel and gasoline emit greenhouse gases such as CO<sub>2</sub>, CO, NO<sub>x</sub>, and hydrocarbons (HC). These gases and particulate matters lead to climate change and global warming. CO<sub>2</sub> emissions from a gallon of gasoline and diesel are 8,887 g CO<sub>2</sub>/gallon and 10,180 g CO<sub>2</sub>/gallon, respectively. Hence, using hydrogen power energy not only for transportation but also for commercial and industrial purposes would reduce greenhouse gas emissions significantly. FCEVs are among the cleanest fuel vehicles on the market.

### “Implementation of stringent emission norms and environmental regulations”

The stringent regulations formulated for the reduction of CO<sub>2</sub> emissions are expected to transform the automotive sector in India, China, and Japan over the next decade. While automotive OEMs are focusing on the electrification of vehicles, consumers are becoming more aware of the impact of vehicular emissions on the environment. Governments are also taking effective measures, such as tax subsidies, to promote the adoption of electric vehicles. Hence, the electric van market will grow. As indicated by the WHO, a significant reason for deaths has been air contamination. Governments around the world are robustly putting resources into infrastructural advancements to diminish ozone-depleting substances and lower air pollutions, which are achieved through the framing of stringent government regulations over vehicle emissions. For instance, in India, the budget for FY2021 includes a scrappage policy which would help encourage the adoption of greener vehicles. The growth of the electric vehicle market is expected to offer new opportunities for electric van manufacturers. Thus, the shift towards electric vehicles is expected to facilitate the growth of the electric van market in the coming years.

The study contains insights from various industry experts, ranging from component suppliers to tier-1 companies and OEMs. The break-up of the primaries is as follows:

By Company Type: OEMs - 57%, Tier 1 – 29%, Tier 2 - 14%

By Designation: CXOs - 54%, Directors - 32%, Others - 14%

By Region: Asia Pacific- 28%, Europe - 43%, North America - 29%

Major players profiled in the report are General Motors (US), Renault (France), Toyota Motor Corporation (Japan), BYD (China), and Ford Motor Company (US).

### Research Coverage

In this report, the electric van market has been segmented into three major regions, namely, North America, Europe, and Asia Pacific. The report estimates the size of the electric van market, by volume, based on range (up to 100 miles, 100-200 miles, and above 200 miles), battery type (nickel manganese cobalt, lithium-ion, and others), battery capacity (up to 50 kWh and above 50 kWh), propulsion (BEV, FCEV, and PHEV), and end use (last mile delivery, distribution services, field services, and refrigerated services).

### Key Benefits of Buying the Report:

The report will help market leaders/new entrants in this market with information on the closest approximations of revenue and volume numbers for the electric van market and its subsegments.

This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and plan suitable go-to-market strategies.

The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

## Contents

### 1 INTRODUCTION

#### 1.1 STUDY OBJECTIVES

#### 1.2 MARKET DEFINITION

##### 1.2.1 ELECTRIC VAN MARKET, BY END USE

##### 1.2.2 ELECTRIC VAN MARKET, BY PROPULSION

##### 1.2.3 ELECTRIC VAN MARKET, BY BATTERY TYPE

#### 1.3 ELECTRIC VAN MARKET: INCLUSIONS AND EXCLUSIONS

#### 1.4 MARKET SCOPE

##### 1.4.1 MARKETS COVERED

#### FIGURE 1 MARKET SEGMENTATION

##### 1.4.2 YEARS CONSIDERED

#### 1.5 CURRENCY CONSIDERED

#### TABLE 1 CURRENCY EXCHANGE RATES (PER USD)

#### 1.6 STAKEHOLDERS

### 2 RESEARCH METHODOLOGY

#### 2.1 RESEARCH DATA

#### FIGURE 2 ELECTRIC VAN MARKET: RESEARCH DESIGN

##### 2.1.1 SECONDARY DATA

###### 2.1.1.1 Key data from secondary sources

###### 2.1.1.2 List of secondary sources

##### 2.1.2 PRIMARY DATA

###### 2.1.2.1 Key data from primary sources

###### 2.1.2.2 List of participating companies for primary research

###### 2.1.2.3 Key industry insights

###### 2.1.2.4 Breakdown of primary interviews

#### FIGURE 3 BREAKDOWN OF PRIMARY INTERVIEWS: BY COMPANY, DESIGNATION, AND REGION

#### 2.2 MARKET SIZE ESTIMATION

#### FIGURE 4 MARKET SIZE ESTIMATION: BOTTOM-UP APPROACH

##### 2.2.1 BOTTOM-UP APPROACH

#### FIGURE 5 MARKET SIZE ESTIMATION METHODOLOGY FOR ELECTRIC VAN MARKET: BOTTOM-UP APPROACH

##### 2.2.2 TOP-DOWN APPROACH

#### FIGURE 6 MARKET SIZE ESTIMATION METHODOLOGY FOR ELECTRIC VAN

## MARKET: TOP-DOWN APPROACH

### 2.3 FACTOR ANALYSIS

#### 2.3.1 FACTOR ANALYSIS FOR MARKET SIZING: DEMAND AND SUPPLY SIDES

### 2.4 DATA TRIANGULATION

#### FIGURE 7 DATA TRIANGULATION

### 2.5 ASSUMPTIONS

### 2.6 RISK ASSESSMENT

### 2.7 RESEARCH LIMITATIONS

## 3 EXECUTIVE SUMMARY

#### FIGURE 8 ELECTRIC VAN MARKET: MARKET DYNAMICS

#### FIGURE 9 ELECTRIC VAN MARKET, BY REGION, 2022 VS. 2030 (UNITS)

#### FIGURE 10 ELECTRIC VAN MARKET, BY PROPULSION, 2022 VS. 2030 (UNITS)

## 4 PREMIUM INSIGHTS

### 4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN ELECTRIC VAN MARKET

#### FIGURE 11 INCREASED GOVERNMENT SUBSIDIES FOR ELECTRIC VEHICLES TO DRIVE ELECTRIC VAN MARKET

### 4.2 ELECTRIC VAN MARKET, BY PROPULSION

#### FIGURE 12 BEV PROJECTED TO BE LARGER MARKET (2022–2030) (UNITS)

### 4.3 ELECTRIC VAN MARKET, BY BATTERY CAPACITY

#### FIGURE 13 ABOVE 50 KWH PROJECTED TO BE LARGEST SEGMENT IN ELECTRIC VAN MARKET (2022–2030) (UNITS)

### 4.4 ELECTRIC VAN MARKET, BY END USE

#### FIGURE 14 LAST MILE DELIVERY SEGMENT TO HAVE HIGHEST GROWTH DURING FORECAST PERIOD (UNITS)

### 4.5 ELECTRIC VAN MARKET, BY BATTERY TYPE

#### FIGURE 15 LITHIUM-ION SEGMENT TO ACQUIRE LARGER MARKET SHARE, (2022–2030) (UNITS)

### 4.6 ELECTRIC VAN MARKET, BY RANGE

#### FIGURE 16 100–200 MILES SEGMENT PROJECTED TO BE LARGER SEGMENT OF ELECTRIC VAN MARKET, (2022–2030) (UNITS)

### 4.7 ELECTRIC VAN MARKET, BY REGION

#### FIGURE 17 ASIA PACIFIC ESTIMATED TO ACCOUNT FOR LARGEST MARKET SHARE IN 2022

## 5 MARKET OVERVIEW

## 5.1 INTRODUCTION

FIGURE 18 ROLE OF STARTUPS IN ELECTRIC VEHICLE ECOSYSTEM

TABLE 2 IMPACT OF MARKET DYNAMICS

## 5.2 MARKET DYNAMICS

FIGURE 19 ELECTRIC VAN MARKET: MARKET DYNAMICS

### 5.2.1 DRIVERS

5.2.1.1 Increased demand for emission-free and energy-efficient mass transit solutions

FIGURE 20 EU E-VANS EMISSION TARGETS FOR 2027

5.2.1.2 Reduction in battery prices

FIGURE 21 DECLINE IN BATTERY PRICE/KWH, 2010–2020

5.2.1.3 Lower emissions compared to other vehicles

### 5.2.2 RESTRAINTS

5.2.2.1 High development cost

5.2.2.2 Concerns over battery safety

FIGURE 22 BATTERY SAFETY ARCHITECTURE

5.2.2.3 Lower vehicle range to hamper long-distance logistics

TABLE 3 ELECTRIC VAN DATA BASED ON RANGE

### 5.2.3 OPPORTUNITIES

5.2.3.1 Government support for electrification of public transport

TABLE 4 GOVERNMENT PROGRAMS TO PROMOTE EVS

5.2.3.2 Implementation of stringent emission norms and environmental regulations

TABLE 5 KEY COUNTRIES: EMISSION REGULATION SPECIFICATIONS

OVERVIEW, BY FUEL TYPE, 2016–2021

5.2.3.3 Use of electric vans for fleets and commercial applications

TABLE 6 MAJOR EV FLEET TARGETS

### 5.2.4 CHALLENGES

5.2.4.1 Limited battery capacity

TABLE 7 BATTERY CAPACITIES OF POPULAR ELECTRIC VANS

5.2.4.2 Lack of charging infrastructure

TABLE 8 INDIA: SPECIFICATIONS OF CHARGING INFRASTRUCTURE

## 5.3 PORTER'S FIVE FORCES

FIGURE 23 PORTER'S FIVE FORCES: ELECTRIC VAN MARKET

TABLE 9 ELECTRIC VAN MARKET: IMPACT OF PORTER'S FIVE FORCES

5.3.1 THREAT OF SUBSTITUTES

5.3.2 THREAT OF NEW ENTRANTS

5.3.3 BARGAINING POWER OF BUYERS

5.3.4 BARGAINING POWER OF SUPPLIERS

### 5.3.5 INTENSITY OF COMPETITIVE RIVALRY

## 5.4 MACROECONOMIC INDICATORS

### 5.4.1 GDP TRENDS AND FORECAST FOR MAJOR ECONOMIES

TABLE 10 GDP TRENDS AND FORECAST, BY MAJOR ECONOMIES, 2018–2026  
(USD BILLION)

## 5.5 ELECTRIC VAN MARKET ECOSYSTEM

### FIGURE 24 ELECTRIC VAN MARKET: ECOSYSTEM ANALYSIS

#### 5.5.1 OEM

#### 5.5.2 RAW MATERIAL SUPPLIERS

#### 5.5.3 COMPONENT MANUFACTURERS

#### 5.5.4 CHARGING INFRASTRUCTURE

TABLE 11 ELECTRIC VAN MARKET: ROLE OF COMPANIES IN ECOSYSTEM

## 5.6 VALUE CHAIN ANALYSIS

### FIGURE 25 VALUE CHAIN ANALYSIS

## 5.7 PRICING ANALYSIS

TABLE 12 ELECTRIC VAN MARKET: AVERAGE PRICE (USD), 2022

## 5.8 PATENT ANALYSIS

TABLE 13 ELECTRIC VAN MARKET: PATENTED DOCUMENTS ANALYSIS, BY  
PUBLISHED, FILED, AND GRANTED (2015–2021)

## 5.9 REGULATORY OVERVIEW

### 5.9.1 NORTH AMERICA

TABLE 14 NORTH AMERICA: POLICIES AND INITIATIVES SUPPORTING  
HYDROGEN-POWERED VEHICLES AND HYDROGEN INFRASTRUCTURE

### 5.9.2 EUROPE

TABLE 15 EUROPE: POLICIES AND INITIATIVES SUPPORTING HYDROGEN-  
POWERED VEHICLES AND HYDROGEN INFRASTRUCTURE

### 5.9.3 ASIA PACIFIC

TABLE 16 ASIA PACIFIC: POLICIES AND INITIATIVES SUPPORTING HYDROGEN-  
POWERED VEHICLES AND HYDROGEN INFRASTRUCTURE

## 5.10 CASE STUDIES

### 5.10.1 ADOPTION OF ELECTRIC MOBILITY FOR PUBLIC TRANSPORT IN INDIA

### 5.10.2 ELECTRIC VEHICLE FLEETS IN PUBLIC SECTOR

## 5.11 TRENDS AND DISRUPTIONS IN ELECTRIC VAN MARKET

### FIGURE 26 TRENDS AND DISRUPTIONS IN ELECTRIC VAN MARKET

## 5.12 TECHNOLOGY ANALYSIS

### 5.12.1 SMART CHARGING SYSTEM

### FIGURE 27 SMART EV CHARGING SYSTEM

### 5.12.2 IOT IN ELECTRIC VEHICLES

### 5.12.3 PACKAGED FUEL CELL SYSTEM MODULES



**FIGURE 28 NEW PACKAGED FUEL CELL SYSTEM MODULE BY TOYOTA****5.12.4 METHANE FUEL CELLS****5.13 KEY STAKEHOLDERS AND BUYING CRITERIA****5.13.1 KEY STAKEHOLDERS IN BUYING PROCESS****TABLE 17 INFLUENCE OF INSTITUTIONAL BUYERS ON PURCHASE OF ELECTRIC VANS****5.13.2 BUYING CRITERIA****5.14 DETAILED LIST OF CONFERENCES AND EVENTS, 2022–2023****TABLE 18 ELECTRIC VAN MARKET: DETAILED LIST OF CONFERENCES AND EVENTS****5.15 LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS****TABLE 19 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS****TABLE 20 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS****TABLE 21 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS****5.16 ELECTRIC VAN MARKET, SCENARIOS (2022–2030)****5.16.1 ELECTRIC VAN MARKET, MOST LIKELY SCENARIO****TABLE 22 ELECTRIC VAN MARKET (MOST LIKELY), BY REGION, 2022–2030 (UNITS)****5.16.2 ELECTRIC VAN MARKET, OPTIMISTIC SCENARIO****TABLE 23 ELECTRIC VAN MARKET (OPTIMISTIC), BY REGION, 2022–2030 (UNITS)****5.16.3 ELECTRIC VAN MARKET, PESSIMISTIC SCENARIO****TABLE 24 ELECTRIC VAN MARKET (PESSIMISTIC), BY REGION, 2022–2030 (UNITS)****6 ELECTRIC VAN MARKET, BY RANGE****6.1 INTRODUCTION****FIGURE 29 ABOVE 200 MILES SEGMENT TO REGISTER HIGHER CAGR****TABLE 25 ELECTRIC VAN MARKET, BY RANGE, 2018–2021 (UNITS)****TABLE 26 ELECTRIC VAN MARKET, BY RANGE, 2022–2030 (UNITS)****6.1.1 OPERATIONAL DATA****TABLE 27 ELECTRIC VAN DATA BASED ON RANGE****6.1.2 ASSUMPTIONS****TABLE 28 ASSUMPTIONS: BY RANGE****6.1.3 RESEARCH METHODOLOGY**



## 6.2 UP TO 100 MILES

### 6.2.1 AFFORDABLE ELECTRIC VANS TO BOOST SEGMENT

TABLE 29 UP TO 100 MILES ELECTRIC VAN MARKET, BY REGION, 2018–2021 (UNITS)

TABLE 30 UP TO 100 MILES ELECTRIC VAN MARKET, BY REGION, 2022–2030 (UNITS)

## 6.3 100–200 MILES

### 6.3.1 AIDS LONG-DISTANCE TRANSPORT

TABLE 31 100–200 MILES ELECTRIC VAN MARKET, BY REGION, 2018–2021 (UNITS)

TABLE 32 100–200 MILES ELECTRIC VAN MARKET, BY REGION, 2022–2030 (UNITS)

## 6.4 ABOVE 200 MILES

### 6.4.1 ADVANCED BATTERY TECHNOLOGY

TABLE 33 ABOVE 200 MILES ELECTRIC VAN MARKET, BY REGION, 2022–2030 (UNITS)

## 6.5 KEY PRIMARY INSIGHTS

# 7 ELECTRIC VAN MARKET, BY BATTERY TYPE

## 7.1 INTRODUCTION

FIGURE 30 LITHIUM-ION TO DOMINATE ELECTRIC VAN MARKET DURING FORECAST PERIOD

TABLE 34 ELECTRIC VAN MARKET, BY BATTERY TYPE, 2018–2021 (UNITS)

TABLE 35 ELECTRIC VAN MARKET, BY BATTERY TYPE, 2022–2030 (UNITS)

### 7.1.1 OPERATIONAL DATA

TABLE 36 ELECTRIC VAN DATA, BATTERY TYPE

### 7.1.2 ASSUMPTIONS

### 7.1.3 RESEARCH METHODOLOGY

## 7.2 NICKEL MANGANESE COBALT

7.2.1 LOW COST AND HIGHER LIFE CYCLE OF NICKEL CELLS TO DRIVE MARKET

TABLE 37 NICKEL MANGANESE COBALT BATTERIES MARKET, BY REGION, 2018–2021 (UNITS)

TABLE 38 NICKEL MANGANESE COBALT BATTERIES MARKET, BY REGION, 2022–2030 (UNITS)

## 7.3 LITHIUM-ION

### 7.3.1 LOW COST OF LITHIUM-ION BATTERIES TO DRIVE MARKET

TABLE 39 LITHIUM-ION BATTERIES MARKET, BY REGION, 2018–2021 (UNITS)

**TABLE 40 LITHIUM-ION BATTERIES MARKET, BY REGION, 2022–2030 (UNITS)****7.4 OTHERS****7.4.1 DEVELOPMENT OF HIGH ENERGY DENSITY AND LOW WEIGHT BATTERIES TO DRIVE MARKET****TABLE 41 OTHER BATTERIES MARKET, BY REGION, 2018–2021 (UNITS)****TABLE 42 OTHER BATTERIES MARKET, BY REGION, 2022–2030 (UNITS)****7.5 KEY INDUSTRY INSIGHTS****8 ELECTRIC VAN MARKET, BY END USE****8.1 INTRODUCTION****FIGURE 31 LAST MILE DELIVERY MARKET SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD****TABLE 43 ELECTRIC VAN MARKET, BY END USE, 2018–2021 (UNITS)****TABLE 44 ELECTRIC VAN MARKET, BY END USE, 2022–2030 (UNITS)****8.1.1 OPERATIONAL DATA****TABLE 45 ELECTRIC VAN DATA, END USE****8.1.2 ASSUMPTIONS****8.1.3 RESEARCH METHODOLOGY****8.2 LAST MILE DELIVERY****8.2.1 PRESENCE OF E-COMMERCE COMPANIES TO BOOST MARKET****8.3 FIELD SERVICES****8.3.1 INCREASED USE IN HEALTHCARE FACILITIES****8.4 DISTRIBUTION SERVICES****8.4.1 GROWTH OF LOGISTICS SECTOR TO DRIVE MARKET****8.5 REFRIGERATED SERVICES****8.5.1 NEED TO DISTRIBUTE GOODS AT SPECIFIC TEMPERATURES TO FUEL MARKET****8.6 KEY INDUSTRY INSIGHTS****9 ELECTRIC VAN MARKET, BY BATTERY CAPACITY****9.1 INTRODUCTION****FIGURE 32 ABOVE 50 KWH SEGMENT TO LEAD MARKET****TABLE 46 ELECTRIC VAN MARKET, BY BATTERY CAPACITY, 2018–2021 (UNITS)****TABLE 47 ELECTRIC VAN MARKET, BY BATTERY CAPACITY, 2022–2030 (UNITS)****9.1.1 OPERATIONAL DATA****TABLE 48 ELECTRIC VAN VEHICLE MODELS, BY BATTERY CAPACITY****9.1.2 ASSUMPTIONS**

**TABLE 49 ASSUMPTIONS: BY BATTERY CAPACITY****9.1.3 RESEARCH METHODOLOGY****9.2 UP TO 50 KWH****9.2.1 INTRACITY DELIVERY USING ELECTRIC VANS TO DRIVE SEGMENT****TABLE 50 UP TO 50 KWH: ELECTRIC VAN MARKET, BY REGION, 2018–2021 (UNITS)****TABLE 51 UP TO 50 KWH: ELECTRIC VAN MARKET, BY REGION, 2022–2030 (UNITS)****9.3 ABOVE 50 KWH****9.3.1 HEAVY-DUTY ELECTRIC VANS TO LEAD MARKET****TABLE 52 ABOVE 50 KWH: ELECTRIC VAN MARKET, BY REGION, 2018–2021 (UNITS)****TABLE 53 ABOVE 50 KWH: ELECTRIC VAN MARKET, BY REGION, 2022–2030 (UNITS)****9.4 KEY INDUSTRY INSIGHTS****10 ELECTRIC VAN MARKET, BY PROPULSION****10.1 INTRODUCTION****FIGURE 33 BEV SEGMENT TO ACQUIRE MAJOR MARKET SHARE DURING FORECAST PERIOD****TABLE 54 ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021 (UNITS)****TABLE 55 ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030 (UNITS)****10.1.1 OPERATIONAL DATA****TABLE 56 ELECTRIC VAN DATA BASED ON PROPULSION TYPE****10.1.2 ASSUMPTIONS****10.1.3 RESEARCH METHODOLOGY****10.2 BEV****10.2.1 INCREASED DEMAND FOR ZERO-EMISSION VEHICLES TO BOOST SEGMENT****TABLE 57 BEV ELECTRIC VAN MARKET, BY REGION, 2018–2021 (UNITS)****TABLE 58 BEV ELECTRIC VAN MARKET, BY REGION, 2022–2030 (UNITS)****10.3 FCEV****10.3.1 SHIFT TOWARD FUEL CELL ELECTRIC VEHICLES TO DRIVE SEGMENT****TABLE 59 FCEV ELECTRIC VAN MARKET, BY REGION, 2022–2030 (UNITS)****10.4 PHEV****10.4.1 IMPROVEMENT IN CHARGING INFRASTRUCTURE TO DRIVE SEGMENT****TABLE 60 PHEV ELECTRIC VAN MARKET, BY REGION, 2018–2021 (UNITS)****TABLE 61 PHEV ELECTRIC VAN MARKET, BY REGION, 2022–2030 (UNITS)**

## 10.5 KEY INDUSTRY INSIGHTS

### 11 ELECTRIC VAN MARKET, BY REGION

#### 11.1 INTRODUCTION

FIGURE 34 EUROPE TO ACCOUNT FOR LARGEST SIZE OF ELECTRIC VAN MARKET, 2022 VS. 2030 (UNITS)

TABLE 62 ELECTRIC VAN MARKET, BY REGION, 2018–2021 (UNITS)

TABLE 63 ELECTRIC VAN MARKET, BY REGION, 2022–2030 (UNITS)

#### 11.2 ASIA PACIFIC

TABLE 64 ASIA PACIFIC: ELECTRIC VAN MARKET, BY COUNTRY, 2018–2021 (UNITS)

TABLE 65 ASIA PACIFIC: ELECTRIC VAN MARKET, BY COUNTRY, 2022–2030 (UNITS)

FIGURE 35 ASIA PACIFIC: ELECTRIC VAN MARKET SNAPSHOT

##### 11.2.1 CHINA

11.2.1.1 High production of vehicles to boost market

TABLE 66 CHINA: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021 (UNITS)

TABLE 67 CHINA: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030 (UNITS)

##### 11.2.2 JAPAN

11.2.2.1 Driven by technological advancements

TABLE 68 JAPAN: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021 (UNITS)

TABLE 69 JAPAN: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030 (UNITS)

##### 11.2.3 SOUTH KOREA

11.2.3.1 Increased investments in electric vehicles

TABLE 70 SOUTH KOREA: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021 (UNITS)

TABLE 71 SOUTH KOREA: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030 (UNITS)

##### 11.2.4 INDIA

11.2.4.1 Increased market for last mile delivery

TABLE 72 INDIA: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030 (UNITS)

#### 11.3 EUROPE

TABLE 73 EUROPE: ELECTRIC VAN MARKET, BY COUNTRY, 2018–2021 (UNITS)

TABLE 74 EUROPE: ELECTRIC VAN MARKET, BY COUNTRY, 2022–2030 (UNITS)

##### 11.3.1 GERMANY

11.3.1.1 Presence of major players

TABLE 75 GERMANY: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021 (UNITS)

TABLE 76 GERMANY: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030  
(UNITS)

11.3.2 UK

11.3.2.1 Investments in ultra-low emission vehicles

TABLE 77 UK: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021 (UNITS)

TABLE 78 UK: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030 (UNITS)

11.3.3 NETHERLANDS

11.3.3.1 Heavy investments by OEMs to increase production bases

TABLE 79 NETHERLANDS: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021  
(UNITS)

TABLE 80 NETHERLANDS: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030  
(UNITS)

11.3.4 NORWAY

11.3.4.1 Logistics industry to replace conventional means of transport with electric  
vans

TABLE 81 NORWAY: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021  
(UNITS)

TABLE 82 NORWAY: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030  
(UNITS)

11.3.5 FRANCE

11.3.5.1 Purchase grants by government

TABLE 83 FRANCE: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021  
(UNITS)

TABLE 84 FRANCE: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030  
(UNITS)

11.3.6 ITALY

11.3.6.1 Government focus on greener vehicles

TABLE 85 ITALY: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021 (UNITS)

TABLE 86 ITALY: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030 (UNITS)

11.3.7 DENMARK

11.3.7.1 Government promotion of private infrastructure

TABLE 87 DENMARK: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021  
(UNITS)

TABLE 88 DENMARK: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030  
(UNITS)

11.3.8 PORTUGAL

11.3.8.1 Expansion of electric vehicle charging infrastructure

TABLE 89 PORTUGAL: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021  
(UNITS)

TABLE 90 PORTUGAL: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030  
(UNITS)

#### 11.3.9 IRELAND

11.3.9.1 Presence of popular e-van manufacturers

TABLE 91 IRELAND: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021  
(UNITS)

TABLE 92 IRELAND: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030  
(UNITS)

#### 11.3.10 BELGIUM

11.3.10.1 High adoption rate of electric commercial vehicles

TABLE 93 BELGIUM: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021  
(UNITS)

TABLE 94 BELGIUM: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030  
(UNITS)

#### 11.3.11 SWITZERLAND

11.3.11.1 Increased awareness of vehicle emissions

TABLE 95 SWITZERLAND: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021  
(UNITS)

TABLE 96 SWITZERLAND: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030  
(UNITS)

#### 11.3.12 AUSTRIA

11.3.12.1 Increasing postal services

TABLE 97 AUSTRIA: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021  
(UNITS)

TABLE 98 AUSTRIA: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030  
(UNITS)

#### 11.3.13 SPAIN

11.3.13.1 Increasing market for B2C services

TABLE 99 SPAIN: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021 (UNITS)

TABLE 100 SPAIN: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030 (UNITS)

#### 11.3.14 SWEDEN

11.3.14.1 Increased market for refrigerated services

TABLE 101 SWEDEN: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021  
(UNITS)

TABLE 102 SWEDEN: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030  
(UNITS)

### 11.4 NORTH AMERICA

TABLE 103 NORTH AMERICA: ELECTRIC VAN MARKET, BY COUNTRY, 2018–2021  
(UNITS)

TABLE 104 NORTH AMERICA: ELECTRIC VAN MARKET, BY COUNTRY, 2022–2030 (UNITS)

FIGURE 36 NORTH AMERICA: ELECTRIC VAN MARKET SNAPSHOT

#### 11.4.1 US

11.4.1.1 Increased production capacity of electric vehicles

TABLE 105 US: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021 (UNITS)

TABLE 106 US: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030 (UNITS)

#### 11.4.2 CANADA

11.4.2.1 Increased use of LCVs

TABLE 107 CANADA: ELECTRIC VAN MARKET, BY PROPULSION, 2018–2021 (UNITS)

TABLE 108 CANADA: ELECTRIC VAN MARKET, BY PROPULSION, 2022–2030 (UNITS)

## 12 COMPETITIVE LANDSCAPE

### 12.1 OVERVIEW

### 12.2 MARKET SHARE ANALYSIS FOR ELECTRIC VAN MARKET

TABLE 109 MARKET SHARE ANALYSIS, 2021

FIGURE 37 MARKET SHARE ANALYSIS, 2021

#### 12.2.1 GENERAL MOTORS

#### 12.2.2 RENAULT

#### 12.2.3 TOYOTA MOTOR CORPORATION

#### 12.2.4 BYD

#### 12.2.5 FORD MOTOR COMPANY

### 12.3 KEY PLAYER STRATEGIES

TABLE 110 OVERVIEW OF STRATEGIES ADOPTED BY PLAYERS IN ELECTRIC VAN MARKET

### 12.4 REVENUE ANALYSIS OF TOP LISTED/PUBLIC PLAYERS

FIGURE 38 TOP PUBLIC/LISTED PLAYERS DOMINATING ELECTRIC VAN MARKET DURING LAST FIVE YEARS

### 12.5 COMPETITIVE SCENARIO

#### 12.5.1 NEW PRODUCT LAUNCHES

TABLE 111 NEW PRODUCT LAUNCHES, 2018–2022

#### 12.5.2 DEALS

TABLE 112 DEALS, 2018–2022

#### 12.5.3 OTHERS

TABLE 113 OTHERS, 2018–2022

### 12.6 COMPANY EVALUATION QUADRANT



#### 12.6.1 STARS

#### 12.6.2 EMERGING LEADERS

#### 12.6.3 PERVASIVE PLAYERS

#### 12.6.4 PARTICIPANTS

FIGURE 39 ELECTRIC VAN MARKET: COMPANY EVALUATION QUADRANT, 2022

TABLE 114 ELECTRIC VAN MARKET: COMPANY FOOTPRINT, 2022

TABLE 115 ELECTRIC VAN MARKET: PRODUCT FOOTPRINT, 2022

TABLE 116 ELECTRIC VAN MARKET: REGIONAL FOOTPRINT, 2022

#### 12.7 STARTUP/SME EVALUATION QUADRANT

##### 12.7.1 PROGRESSIVE COMPANIES

##### 12.7.2 RESPONSIVE COMPANIES

##### 12.7.3 DYNAMIC COMPANIES

##### 12.7.4 STARTING BLOCKS

FIGURE 40 ELECTRIC VAN MARKET: STARTUP/SME EVALUATION QUADRANT, 2022

TABLE 117 ELECTRIC VAN MARKET: DETAILED LIST OF KEY STARTUPS/SMES

TABLE 118 ELECTRIC VAN MARKET: COMPETITIVE BENCHMARKING OF KEY PLAYERS [STARTUPS/SMES]

### 13 COMPANY PROFILES

(Business overview, Products offered, Recent developments & MnM View)\*

#### 13.1 KEY PLAYERS

##### 13.1.1 GENERAL MOTORS

TABLE 119 GENERAL MOTORS: BUSINESS OVERVIEW

FIGURE 41 GENERAL MOTORS: COMPANY SNAPSHOT

TABLE 120 GENERAL MOTORS: PRODUCTS OFFERED

TABLE 121 GENERAL MOTORS: NEW PRODUCT DEVELOPMENTS

TABLE 122 GENERAL MOTORS: DEALS

TABLE 123 GENERAL MOTORS: OTHERS

##### 13.1.2 RENAULT

TABLE 124 RENAULT: BUSINESS OVERVIEW

FIGURE 42 RENAULT: COMPANY SNAPSHOT

TABLE 125 RENAULT: PRODUCTS OFFERED

TABLE 126 RENAULT: NEW PRODUCT DEVELOPMENTS

TABLE 127 RENAULT: DEALS

TABLE 128 RENAULT: OTHERS

##### 13.1.3 TOYOTA MOTOR CORPORATION

TABLE 129 TOYOTA MOTOR CORPORATION: BUSINESS OVERVIEW

FIGURE 43 TOYOTA MOTOR CORPORATION: COMPANY SNAPSHOT

FIGURE 44 GLOBAL DATA BY REGION

TABLE 130 TOYOTA MOTOR CORPORATION: PRODUCTS OFFERED

TABLE 131 TOYOTA MOTOR CORPORATION: NEW PRODUCT DEVELOPMENTS

TABLE 132 TOYOTA MOTOR CORPORATION: DEALS

TABLE 133 TOYOTA MOTOR CORPORATION: OTHERS

#### 13.1.4 BYD

TABLE 134 BYD: BUSINESS OVERVIEW

FIGURE 45 BYD: COMPANY SNAPSHOT

TABLE 135 BYD: PRODUCTS OFFERED

TABLE 136 BYD: NEW PRODUCT DEVELOPMENTS

TABLE 137 BYD: DEALS

TABLE 138 BYD: OTHERS

#### 13.1.5 FORD MOTOR COMPANY

TABLE 139 FORD MOTOR COMPANY: BUSINESS OVERVIEW

FIGURE 46 FORD MOTOR COMPANY: COMPANY SNAPSHOT

TABLE 140 FORD MOTOR COMPANY: PRODUCTS OFFERED

TABLE 141 FORD MOTOR COMPANY: NEW PRODUCT DEVELOPMENTS

TABLE 142 FORD MOTOR COMPANY: DEALS

TABLE 143 FORD MOTOR COMPANY: OTHERS

#### 13.1.6 NISSAN MOTOR CORPORATION

TABLE 144 NISSAN MOTOR CORPORATION: BUSINESS OVERVIEW

FIGURE 47 NISSAN MOTOR CORPORATION: COMPANY SNAPSHOT

FIGURE 48 GLOBAL VEHICLE RETAIL SALES (2021)

TABLE 145 NISSAN MOTOR CORPORATION: PRODUCTS OFFERED

TABLE 146 NISSAN MOTOR CORPORATION: NEW PRODUCT DEVELOPMENTS

TABLE 147 NISSAN MOTOR CORPORATION: DEALS

TABLE 148 NISSAN MOTOR CORPORATION: OTHERS

#### 13.1.7 MAHINDRA & MAHINDRA LTD.

TABLE 149 MAHINDRA & MAHINDRA LTD.: BUSINESS OVERVIEW

FIGURE 49 MAHINDRA & MAHINDRA LTD.: COMPANY SNAPSHOT

FIGURE 50 MAHINDRA & MAHINDRA LTD.: MANUFACTURING PLANTS IN INDIA

FIGURE 51 MANUFACTURING FACILITIES GLOBALLY

TABLE 150 MAHINDRA & MAHINDRA LTD.: PRODUCTS OFFERED

TABLE 151 MAHINDRA & MAHINDRA LTD: DEALS

TABLE 152 MAHINDRA & MAHINDRA LTD.: OTHERS

#### 13.1.8 IVECO

TABLE 153 IVECO: BUSINESS OVERVIEW

TABLE 154 IVECO: PRODUCTS OFFERED

TABLE 155 IVECO: NEW PRODUCT DEVELOPMENTS

TABLE 156 IVECO: DEALS

13.1.9 LONDON ELECTRIC VEHICLE COMPANY

TABLE 157 LONDON ELECTRIC VEHICLE COMPANY: BUSINESS OVERVIEW

TABLE 158 LONDON ELECTRIC VEHICLE COMPANY: PRODUCTS OFFERED

TABLE 159 LONDON ELECTRIC VEHICLE COMPANY: NEW PRODUCT DEVELOPMENTS

TABLE 160 LONDON ELECTRIC VEHICLE COMPANY: DEALS

13.1.10 FIAT

TABLE 161 FIAT: BUSINESS OVERVIEW

TABLE 162 FIAT: PRODUCTS OFFERED

TABLE 163 FIAT: NEW PRODUCT DEVELOPMENTS

TABLE 164 FIAT: DEALS

\*Details on Business overview, Products offered, Recent developments & MnM View might not be captured in case of unlisted companies.

13.2 OTHER PLAYERS

13.2.1 YINLONG ENERGY

13.2.2 GOLDEN DRAGON

13.2.3 RIVIAN

13.2.4 ZENITH MOTORS

13.2.5 WORKHORSE GROUP

13.2.6 ARRIVAL

13.2.7 KINGSTAR VEHICLE CO., LTD.

13.2.8 CHANJE ENERGY

13.2.9 LIGHTNING EMOTORS

13.2.10 KING LONG

13.2.11 CHANGSHA SUNDA NEW ENERGY TECHNOLOGY CO., LTD.

## **14 RECOMMENDATIONS BY MARKETSANDMARKETS**

14.1 BATTERY ELECTRIC VEHICLES TO BE KEY FOCUS MARKET FOR ELECTRIC VANS

14.2 REFRIGERATED SERVICES SEGMENT TO BE MAJOR MARKET FOR ELECTRIC VANS

14.3 CONCLUSION

## **15 APPENDIX**

15.1 KEY INSIGHTS FROM INDUSTRY EXPERTS

*Electric Van Market by Range (up to 100 miles, 100-200 miles, & above 200 miles), Battery Capacity (up to 50 k...*

15.2 DISCUSSION GUIDE

15.3 KNOWLEDGESTORE: MARKETSANDMARKETS' SUBSCRIPTION PORTAL

15.4 CUSTOMIZATION OPTIONS

15.5 RELATED REPORTS

15.6 AUTHOR DETAILS

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