

# **Electric Powertrain Systems Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 – 2032**

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## **Abstracts**

The Global Electric Powertrain Systems Market was valued at USD 34.5 billion in 2023 and is projected to grow at a CAGR of 28.4% from 2024 to 2032. The surge in urbanization and evolving mobility needs are propelling the electric powertrain systems market. As urban populations swell, the demand for sustainable transportation intensifies, aiming to mitigate traffic congestion, pollution, and reliance on fossil fuels. Electric vehicles (EVs) are increasingly integral to smart city initiatives, enhancing urban mobility and minimizing environmental footprints. This interplay of urban expansion and evolving mobility needs is catalyzing the electric powertrain market, accelerating EV adoption in bustling urban locales.

The overall electric powertrain systems industry is classified based on component, vehicle type, sales channel, and region. Segmented by component, the global electric powertrain systems market includes the EV Power Distribution Module (PDM), EV DC/DC Converter, Electric Vehicle Drive Module, EV Battery Packs, EV DC/AC Inverter, EV Thermal System, and others. Dominating the landscape in 2023, the electric vehicle drive module generated a revenue of USD 3.39 billion, with projections to soar to USD 29.36 billion by 2032. The electric vehicle drive module (EVDM) stands at the forefront of the electric powertrain systems market, primarily due to its pivotal role in enhancing electric vehicle (EV) efficiency. When categorized by vehicle type, the market distinguishes between battery electric vehicles (BEV) and fuel cell electric vehicles (FCEV).

In 2023, battery electric vehicles (BEV) commanded a dominant market share of 99.6% and are projected to maintain this trajectory with a CAGR of 28.4% during the forecast period. Battery electric vehicles (BEVs) dominate the electric powertrain systems market, primarily due to their zero-emission nature. This characteristic aligns seamlessly with global initiatives to diminish carbon footprints and adhere to stringent

environmental standards. Fully electric and pollutant-free, BEVs resonate with eco-conscious consumers.

Asia-Pacific emerged as the frontrunner in the global electric powertrain systems market, raking in USD 22.75 billion in revenue, with forecasts predicting a leap to USD 204.83 billion by 2032. The electric powertrain systems market in the Asia-Pacific is buoyed by surging EV demand in China, Japan, and South Korea. This uptick is attributed to robust governmental backing, heightened environmental consciousness, and initiatives to curb emissions in densely populated urban centers. With rapid urbanization exacerbating pollution and traffic challenges, these nations are championing EVs as a primary remedy. This commitment not only propels the electric powertrain systems market but also aligns with their aspirations for sustainability and cleaner urban environments.

## Contents

### Report Content

#### **CHAPTER 1 METHODOLOGY & SCOPE**

- 1.1 Market scope & definition
- 1.2 Base estimates & calculations
- 1.3 Forecast calculation
- 1.4 Data sources
  - 1.4.1 Primary
  - 1.4.2 Secondary
    - 1.4.2.1 Paid sources
    - 1.4.2.2 Public sources

#### **CHAPTER 2 EXECUTIVE SUMMARY**

- 2.1 Market 360° synopsis, 2018 - 2032
- 2.2 Business trends
- 2.3 Regional trends
- 2.4 Type trends
- 2.5 Sales Channel trends

#### **CHAPTER 3 MARKET INSIGHTS**

- 3.1 Industry ecosystem analysis
- 3.2 Key news and initiatives
  - 3.2.1 Partnership/Collaboration
  - 3.2.2 Merger/Acquisition
  - 3.2.3 Investment
  - 3.2.4 Product launch & innovation
- 3.3 Regulatory landscape
- 3.4 Impact forces
- 3.5 Growth drivers
  - 3.5.1 Increasing Electric Vehicle (EV) Adoption
  - 3.5.2 Urbanization and Changing Mobility
- 3.6 Industry pitfalls & challenges
  - 3.6.1 Insufficient Charging Station Availability
- 3.7 Growth potential analysis

3.8 Raw material analysis

3.9 Trade analysis

3.9.1 Export Data

3.9.2 Import Data

3.10 Porter's analysis

3.11 PESTEL analysis

## **CHAPTER 4 COMPETITIVE LANDSCAPE, 2023**

4.1 Introduction

4.2 Company market share, 2023

4.3 Competitive analysis of major market players, 2023

4.4 Competitive positioning matrix, 2023

4.5 Strategic outlook matrix, 2023

## **CHAPTER 5 MARKET ESTIMATES & FORECAST, BY COMPONENT 2018 – 2032, (USD BILLION) (MILLION TONS)**

5.1 Key trends

5.2 Electric Vehicle Drive Module

5.3 EV DC/DC Converter

5.4 EV Battery Packs

5.5 EV Thermal System

5.6 EV DC/AC Inverter

5.7 EV Power Distribution Module (PDM)

5.8 Others

## **CHAPTER 6 MARKET ESTIMATES & FORECAST, BY VEHICLE TYPE 2018 – 2032, (USD BILLION) (MILLION TONS)**

6.1 Key trends

6.2 Battery Electric Vehicle (BEV)

6.3 Fuel Cell Electric Vehicle (FCEV)

## **CHAPTER 7 MARKET ESTIMATES & FORECAST, BY SALES CHANNEL 2018 – 2032, (USD BILLION) (MILLION TONS)**

7.1 Key trends

7.2 OEM

## 7.3 Aftermarket

# **CHAPTER 8 MARKET ESTIMATES & FORECAST, BY REGION 2018 – 2032, (USD BILLION) (MILLION TONS)**

## 8.1 Key trends

## 8.2 North America

### 8.2.1 U.S.

### 8.2.2 Canada

## 8.3 Europe

### 8.3.1 UK

### 8.3.2 Germany

### 8.3.3 France

### 8.3.4 Italy

### 8.3.5 Spain

## 8.4 Asia Pacific

### 8.4.1 China

### 8.4.2 India

### 8.4.3 Japan

### 8.4.4 South Korea

### 8.4.5 ANZ

## 8.5 Latin America

### 8.5.1 Brazil

### 8.5.2 Mexico

## 8.6 MEA

### 8.6.1 Saudi Arabia

### 8.6.2 UAE

### 8.6.3 South Africa

# **CHAPTER 9 COMPANY PROFILES**

## 9.1 BorgWarner Inc.

## 9.2 Continental AG

## 9.3 Cummins Inc.

## 9.4 Delta Electronics, Inc.

## 9.5 Eaton

## 9.6 GKN PLC

## 9.7 Hitachi Astemo Americas, Inc.

## 9.8 Hyundai Motor Company

- 9.9 Magna International Inc.
- 9.10 Marelli Holdings Co., Ltd.
- 9.11 Mitsubishi Electric Corporation
- 9.12 Nissan Motor Co., Ltd.
- 9.13 Robert Bosch GmbH
- 9.14 Sigma Powertrain, Inc.
- 9.15 Volkswagen

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