

Electric Powertrain Market By Component (Battery, Power Electronic Controller, Motor/Generator, Converter, Transmission, On-Board Charger), By Vehicle Type (Passenger Car, Commercial Vehicle), By Vehicle Class (Mid-priced, Luxury), By Vehicle Drive Type (Front Wheel Drive, Rear Wheel Drive, All Wheel Drive), By Application (BEV, PHEV, FCEV): Global Opportunity Analysis and Industry Forecast, 2021-2031

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Report description:

The electric powertrain is a system in electric vehicle (EV) which is energized by electricity with the help of battery rather than using fossil fuels such as diesel and petrol. It encompasses the battery, and electric motor, and offers transmission of power, which is used to produce the power that is further utilized to drive or move the vehicle. The key components of electric powertrain system are engine & transmission, clutch or torque convertor, driving shaft or propellor shaft, differential, and axles. Currently, electric vehicles are the next generation vehicles and analysed as the future of automotive market space as the fossil fuels are exhausting rapidly. Hence, the factors that will accelerate the demand for electric powertrain market include emerging competing technologies in conventional engines, scarcity of infrastructure of electric vehicle charging and the rising trend of downsized engines. For instance, in June 2022, Toyota Motor Corporations' subsidiary, Lexus introduced new models in the Lexus RX series of sports hybrid vehicles. The vehicle featured a diverse lineup of powertrain options including the newly developed hybrid electric system 2.4-liter turbocharged HEV DIRECT4 with rear high output motor e-axle. Hence, increasing sales of electric vehicles that include pure and hybrid electric vehicles is an important factor that fuels the market growth.

Factors such as growing trend of downsized engines, increasing sales of electric vehicles, and stringent vehicular emission norms & regulations propels the demand for electric powertrain market. However, high manufacturing costs and range anxiety and

serviceability are the factors expected to hamper the market growth. In addition, rocketing infrastructural developments of EV infrastructure and advancement in technology are some of the factors that create lucrative opportunity of electric powertrain market during the forecast period.

The electric powertrain market is segmented on the basis of component, vehicle type, vehicle class, vehicle drive type, and application. By component, the market is categorized into battery, power electronic controller, motor/generator, convertor, transmission, and on-board charger. By vehicle type, the market is fragmented into passenger car and commercial vehicle. By vehicle class, the market is divided into mid-priced and luxury. By vehicle drive type, the market is further classified into front wheel drive, rear wheel drive, and all-wheel drive. By application, the market is categorized into battery electric vehicle (BEV), plug-in hybrid electric vehicle (PHEV), and fuel cell electric vehicle (FCEV). Region wise, it is studied across North America, Europe, Asia-Pacific, and LAMEA.

The key players operating in the electric powertrain market are BorgWarner, Robert Bosch GmbH, Continental AG, Dana Incorporated, Denso, Hitachi, Magna International Inc., Magneti Marelli Ck Holdings, Mitsubishi Electric Corp., Nidec Corporation, Panasonic, Schaeffler AG, Toyota Industries Corporation, Valeo, ZF Friedrichshafen AG, Brusa Electronik (Key Innovator) and Kelly Controls, Inc. (Key Innovators).

Key Benefits For Stakeholders

- -This study presents analytical depiction of the global electric powertrain market analysis along with current trends and future estimations to depict imminent investment pockets.
- -The overall electric powertrain market opportunity is determined by understanding profitable trends to gain a stronger foothold.
- -The report presents information related to the key drivers, restraints, and opportunities of the global electric powertrain market with a detailed impact analysis.
- -The current electric powertrain market is quantitatively analyzed from 2021 to 2031 to benchmark the financial competency.
- -Porter's five forces analysis illustrates the potency of the buyers and suppliers in the industry.

Key Market Segments

By Application

- BEV
- PHEV
- FCEV

By Component

- Battery
- Power Electronic Controller
- Motor/Generator
- Converter
- Transmission
- On-Board Charger

By Vehicle Type

- Passenger Car
- Commercial Vehicle

By Vehicle Class

- Mid-priced
- Luxury

By Vehicle Drive Type

- Front Wheel Drive
- Rear Wheel Drive
- All Wheel Drive

By Region

- North America
- U.S.

- Canada
- Mexico
- Europe
- France
- Netherlands
- Norway
- Rest of Asia-Pacific
- U.K.
- Germany
- Asia-Pacific
- China
- Japan
- India
- Singapore
- South Korea
- Rest of Asia-Pacific
- LAMEA
- Latin America
- Middle East
- Africa
- Key Market Players
- BorgWarner
- Bosch Limited
- Continental AG
- Dana Incorporated
- Denso
- Hitachi
- Magna International Inc.
- Magneti Marelli Ck Holdings□
- Mitsubishi Electric Corp
- Nidec Corporation
- Panasonic
- Schaeffler AG
- Toyota Industries Corporation
- Valeo
- ZF Friedrichshafen AG
- Brusa Electronik (Key Innovator)
- Cc Power Electronics (Key Innovator)

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