

# Global PEMFC and Fuel Cell Electric Vehicle Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/GEA91FDB1CCEN.html>

Date: January 2024

Pages: 118

Price: US\$ 3,480.00 (Single User License)

ID: GEA91FDB1CCEN

## Abstracts

According to our (Global Info Research) latest study, the global PEMFC and Fuel Cell Electric Vehicle market size was valued at USD million in 2023 and is forecast to a readjusted size of USD million by 2030 with a CAGR of % during review period.

Proton-exchange membrane fuel cells, also known as polymer electrolyte membrane (PEM) fuel cells (PEMFC), are a type of fuel cell being developed mainly for transport applications, as well as for stationary fuel-cell applications and portable fuel-cell applications. Their distinguishing features include lower temperature/pressure ranges (50 to 100 °C) and a special proton-conducting polymer electrolyte membrane. PEMFCs generate electricity and operate on the opposite principle to PEM electrolysis, which consumes electricity. They are a leading candidate to replace the aging alkaline fuel-cell technology, which was used in the Space Shuttle. In China market, the PEMFC is mainly used in automotive.

In China market, PEMFC and Fuel Cell Electric Vehicle key players include Ballard, Shenli Hi-Tech, Sunrise Power, Pearl Hydrogen, Wuhan WUT, etc. The top five manufacturers hold a share about 99%. South China is the largest market, with a share about 45%, followed by East China, with a share about 40 percent. In terms of product, Transportation is the largest segment, with a share about 99%. And in terms of application, the largest application is Automotive.

The Global Info Research report includes an overview of the development of the PEMFC and Fuel Cell Electric Vehicle industry chain, the market status of Automotive (Transportation, Others), Others (Transportation, Others), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent,

hot applications and market trends of PEMFC and Fuel Cell Electric Vehicle.

Regionally, the report analyzes the PEMFC and Fuel Cell Electric Vehicle markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global PEMFC and Fuel Cell Electric Vehicle market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the PEMFC and Fuel Cell Electric Vehicle market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the PEMFC and Fuel Cell Electric Vehicle industry.

The report involves analyzing the market at a macro level:

**Market Sizing and Segmentation:** Report collect data on the overall market size, including the sales quantity (KW), revenue generated, and market share of different by Type (e.g., Transportation, Others).

**Industry Analysis:** Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the PEMFC and Fuel Cell Electric Vehicle market.

**Regional Analysis:** The report involves examining the PEMFC and Fuel Cell Electric Vehicle market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

**Market Projections:** Report covers the gathered data and analysis to make future projections and forecasts for the PEMFC and Fuel Cell Electric Vehicle market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to PEMFC and Fuel Cell Electric Vehicle:

**Company Analysis:** Report covers individual PEMFC and Fuel Cell Electric Vehicle manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

**Consumer Analysis:** Report covers data on consumer behaviour, preferences, and attitudes towards PEMFC and Fuel Cell Electric Vehicle. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive, Others).

**Technology Analysis:** Report covers specific technologies relevant to PEMFC and Fuel Cell Electric Vehicle. It assesses the current state, advancements, and potential future developments in PEMFC and Fuel Cell Electric Vehicle areas.

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the PEMFC and Fuel Cell Electric Vehicle market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

**Market Validation:** The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

## Market Segmentation

PEMFC and Fuel Cell Electric Vehicle market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

### Market segment by Type

Transportation

Others

### Market segment by Application

Automotive

Others

#### Major players covered

Ballard

Shenli Hi-Tech

Sunrise Power

Pearl Hydrogen

Wuhan WUT

Foton

FeiChi Bus

SAIC

Dongfeng

Yutong

#### Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of

Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe PEMFC and Fuel Cell Electric Vehicle product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PEMFC and Fuel Cell Electric Vehicle, with price, sales, revenue and global market share of PEMFC and Fuel Cell Electric Vehicle from 2019 to 2024.

Chapter 3, the PEMFC and Fuel Cell Electric Vehicle competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PEMFC and Fuel Cell Electric Vehicle breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and PEMFC and Fuel Cell Electric Vehicle market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of PEMFC and Fuel Cell Electric Vehicle.

Chapter 14 and 15, to describe PEMFC and Fuel Cell Electric Vehicle sales channel, distributors, customers, research findings and conclusion.

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