

# **Global Automotive Fuel Cell Market 2021-2031 by Electrolyte Type (PEMFC, DMFC, AFC, PAFC, Others), Component (Fuel Stack, Fuel Processor, Power Conditioner, Air Compressor, Humidifier), Vehicle Type (Passenger Cars, LCV, Buses, Trucks, Others), Fuel Type (Hydrogen, Methanol), Power Output (250 KW), Operating Miles (Below 250 Miles, 250-500 Miles, above 500 Miles), and Region: Trend Forecast and Growth Opportunity**

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## **Abstracts**

Global automotive fuel cell market will reach \$18,112.9 million by 2031, growing by 30.4% annually over 2021-2031, driven by the increasing demand for zero-emission vehicles and government subsidies as tax benefits to promote fuel cell vehicles, the growing concerns for environmental pollution, the quick fuel fill-up time compared to battery-based electric vehicles, and advanced technologies to improve the vehicle efficacy.

Highlighted with 85 tables and 88 figures, this 175-page report “Global Automotive Fuel Cell Market 2021-2031 by Electrolyte Type (PEMFC, DMFC, AFC, PAFC, Others), Component (Fuel Stack, Fuel Processor, Power Conditioner, Air Compressor, Humidifier), Vehicle Type (Passenger Cars, LCV, Buses, Trucks, Others), Fuel Type (Hydrogen, Methanol), Power Output (250 KW), Operating Miles (Below 250 Miles, 250-500 Miles, Above 500 Miles), and Region: Trend Forecast and Growth Opportunity” is based on a comprehensive research of the entire global automotive fuel cell market and all its sub-segments through extensively detailed classifications. Profound analysis and assessment are generated from premium primary and secondary information

sources with inputs derived from industry professionals across the value chain. The report is based on studies on 2018-2021 and provides forecast from 2022 till 2031 with 2021 as the base year. (Please note: The report will be updated before delivery so that the latest historical year is the base year and the forecast covers at least 5 years over the base year.)

In-depth qualitative analyses include identification and investigation of the following aspects:

Market Structure

Growth Drivers

Restraints and Challenges

Emerging Product Trends & Market Opportunities

Porter's Fiver Forces

The trend and outlook of global market is forecast in optimistic, balanced, and conservative view by taking into account of COVID-19 and Russia-Ukraine conflict. The balanced (most likely) projection is used to quantify global automotive fuel cell market in every aspect of the classification from perspectives of Electrolyte Type, Component, Vehicle Type, Fuel Type, Power Output, Operating Miles, and Region.

Based on Electrolyte Type, the global market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

Proton-Exchange Membrane Fuel Cell (PEMFC)

Direct Methanol Fuel Cell (DMFC)

Alkaline Fuel Cell (AFC)

Phosphoric Acid Fuel Cell (PAFC)

Other Electrolyte Types

Based on Component, the global market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

Fuel Stack

Fuel Processor

Power Conditioner

Air Compressor

Humidifier

By Vehicle Type, the global market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

Passenger Cars

Light Commercial Vehicles (LCV)

Buses

Trucks

Other Commercial Vehicles

By Fuel Type, the global market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

Hydrogen

Methanol

By Power Output, the global market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

150-250 KW

>250 KW

By Operating Miles, the global market is segmented into the following sub-markets with annual revenue (\$ mn) for 2021-2031 included in each section.

Below 250 Miles

250-500 Miles

Above 500 Miles

Geographically, the following regions together with the listed national/local markets are fully investigated:

North America (U.S., Canada, and Mexico)

Europe (Germany, UK, France, Spain, Italy, Netherlands, Rest of Europe; Rest of Europe is further segmented into Russia, Switzerland, Poland, Sweden, Belgium, Austria, Ireland, Norway, Denmark, and Finland)

APAC (Japan, China, South Korea, Australia, India, and Rest of APAC; Rest of APAC is further segmented into Malaysia, Singapore, Indonesia, Thailand, New Zealand, Vietnam, Taiwan, and Philippines)

South America (Brazil, Chile, Argentina, Rest of South America)

MEA (UAE, Saudi Arabia, South Africa and Rest of MEA)

For each aforementioned region and country, detailed analysis and data for annual revenue (\$ mn) are available for 2021-2031. The breakdown of all regional markets by country and split of each national market by Electrolyte Type, Vehicle Type and Operating Miles over the forecast years are also included.

The report also covers current competitive scenario and the predicted trend; and

profiles key vendors including market leaders and important emerging players.

Selected Key Players:

Ballard Power Systems Inc.

BorgWarner Inc.

Ceres Power Holdings PLC

Cummins Inc.

Doosan Fuel Cell Co., Ltd.

Elringklinger AG

Horizon Fuel Cell Technologies Pte. Ltd.

Hydrogenics Corporation

Intelligent Energy Limited

ITM Power PLC

Nedstack Fuel Cell Technology BV

Nuvera Fuel Cells LLC

Oorja Corporation

Plug Power Inc.

PowerCell Sweden AB

Proton Motor Fuel Cell GmbH

SFC Energy AG

Watt Fuel Cell Corporation

(Please note: The report will be updated before delivery so that the latest historical year is the base year and the forecast covers at least 5 years over the base year.)

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Ceres Power Holdings PLC

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Doosan Fuel Cell Co., Ltd.  
Elringklinger AG  
Horizon Fuel Cell Technologies Pte. Ltd.  
Hydrogenics Corporation  
Intelligent Energy Limited  
ITM Power PLC  
Nedstack Fuel Cell Technology BV  
Nuvera Fuel Cells LLC  
Oorja Corporation  
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