

Global Hydrogen Fuel Cell Stacks for Automotive Market Growth 2022-2028

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Abstracts

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Hydrogen Fuel Cell Automotive is an electric vehicle that uses a fuel cell, sometimes in combination with a small battery or supercapacitor, to power its onboard electric motor. Fuel cells in vehicles generate electricity generally using oxygen from the air and compressed hydrogen. Most fuel cell vehicles are classified as zero-emissions vehicles that emit only water and heat. As compared with internal combustion vehicles, hydrogen vehicles centralize pollutants at the site of the hydrogen production, where hydrogen is typically derived from reformed natural gas. Transporting and storing hydrogen may also create pollutants.

Hydrogen Fuel Cell Stacks use hydrogen as a chemical element, and are made into batteries that store energy. The basic principle is the reverse reaction of electrolysis of water, hydrogen and oxygen were supplied to the cathode and anode, hydrogen diffusion through the cathode and the electrolyte reaction, the release of electrons through the external load to reach the anode. A hydrogen fuel cell is a power plant that utilizes the inverse process of electrolyzed water to generate electricity as well as the only emissions: water. Clean and environmentally friendly, and high energy density, compared to the battery on the market can have a longer battery life.

The global market for Hydrogen Fuel Cell Stacks for Automotive is estimated to increase from US\$ million in 2021 to reach US\$ million by 2028, exhibiting a CAGR of % during 2022-2028. Keeping in mind the uncertainties of COVID-19 and Russia-Ukraine War, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use sectors. These insights are included in the report as a major market contributor.

The APAC Hydrogen Fuel Cell Stacks for Automotive market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The United States Hydrogen Fuel Cell Stacks for Automotive market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The Europe Hydrogen Fuel Cell Stacks for Automotive market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

The China Hydrogen Fuel Cell Stacks for Automotive market is expected at value of US\$ million in 2022 and grow at approximately % CAGR during 2022 and 2028.

Global key Hydrogen Fuel Cell Stacks for Automotive players cover Plug Power, Hyundai Mobis, Ballard, Toyota and SinoHytec, etc. In terms of revenue, the global largest two companies occupy a share nearly % in 2021.

Report Coverage

This latest report provides a deep insight into the global Hydrogen Fuel Cell Stacks for Automotive market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, value chain analysis, etc.

This report aims to provide a comprehensive picture of the global Hydrogen Fuel Cell Stacks for Automotive market, with both quantitative and qualitative data, to help readers understand how the Hydrogen Fuel Cell Stacks for Automotive market scenario changed across the globe during the pandemic and Russia-Ukraine War.

The base year considered for analyses is 2021, while the market estimates and forecasts are given from 2022 to 2028. The market estimates are provided in terms of revenue in USD millions and volume in MW.

Market Segmentation:

The study segments the Hydrogen Fuel Cell Stacks for Automotive market and forecasts the market size by Type (Air-cooled Type and Water-cooled Type.), by

Application (Passenger Vehicle and Commercial Vehicle.), and region (APAC, Americas, Europe, and Middle East & Africa).

Segmentation by type

Air-cooled Type

Water-cooled Type

Segmentation by application

Passenger Vehicle

Commercial Vehicle

Segmentation by region

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

Major companies covered

Plug Power

Hyundai Mobis

Ballard

Toyota

SinoHytec

Cummins (Hydrogenics)

Pearl Hydrogen

Elring Klinger (EKPO)

Sunrise Power

Symbio

Bosch (Powercell)

Nedstack

Cellcentric

Nikola

Chapter Introduction

Chapter 1: Scope of Hydrogen Fuel Cell Stacks for Automotive, Research Methodology, etc.

Chapter 2: Executive Summary, global Hydrogen Fuel Cell Stacks for Automotive market size (sales and revenue) and CAGR, Hydrogen Fuel Cell Stacks for Automotive market size by region, by type, by application, historical data from 2017 to 2022, and forecast to 2028.

Chapter 3: Hydrogen Fuel Cell Stacks for Automotive sales, revenue, average price, global market share, and industry ranking by company, 2017-2022

Chapter 4: Global Hydrogen Fuel Cell Stacks for Automotive sales and revenue by region and by country. Country specific data and market value analysis for the U.S., Canada, Europe, China, Japan, South Korea, Southeast Asia, India, Latin America and Middle East & Africa.

Chapter 5, 6, 7, 8: Americas, APAC, Europe, Middle East & Africa, sales segment by country, by type, and type.

Chapter 9: Analysis of the current market trends, market forecast, opportunities and economic trends that are affecting the future marketplace

Chapter 10: Manufacturing cost structure analysis

Chapter 11: Sales channel, distributors, and customers

Chapter 12: Global Hydrogen Fuel Cell Stacks for Automotive market size forecast by region, by country, by type, and application.

Chapter 13: Comprehensive company profiles of the leading players, including Plug Power, Hyundai Mobis, Ballard, Toyota, SinoHytec, Cummins (Hydrogenics), Pearl Hydrogen, Elring Klinger (EKPO) and Sunrise Power, etc.

Chapter 14: Research Findings and Conclusion

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