

Global Proton Exchange Membrane Fuel Cells (PEMFC) Market 2019 by Manufacturers, Regions, Type and Application, Forecast to 2024

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Abstracts

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.

SCOPE OF THE REPORT:

The leading manufactures mainly are Ballard, Plug Power, Freudenberg Sealing Technologies, Hydrogenics and Sunrise Power. Ballard is the largest manufacturer; its revenue of global market exceeds 17% in 2018.

Geographically, the global Proton Exchange Membrane Fuel Cells(PEMFC) market has been segmented into North America, Europe, Japan, China, RoA and RoW. The North America held the largest share in the global market, its revenue of global market exceeds 33% in 2018. The next is Europe.

The worldwide market for Proton Exchange Membrane Fuel Cells (PEMFC) is expected to grow at a CAGR of roughly 14.0% over the next five years, will reach 1198.2 million US\$ in 2024, from 622 million US\$ in 2019, according to a new GIR (Global Info Research) study.

This report focuses on the Proton Exchange Membrane Fuel Cells (PEMFC) in global market, especially in North America, Europe and Asia-Pacific, South America, Middle

East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

Market Segment by Manufacturers, this report covers

Ballard

Plug Power

Freudenberg Sealing Technologies

Hydrogenics

Sunrise Power

Panasonic

Nedstack PEM Fuel Cells

Nuvera Fuel Cells

Altergy Systems

Shenli Hi-Tech

Horizon Fuel Cell Technologies

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

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

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Compressed Gaseous Hydrogen

Cryogenic Liquid Hydrogen

Hydrides

Market Segment by Applications, can be divided into

Transportation

Stationary

Others

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

Chapter 1, to describe Proton Exchange Membrane Fuel Cells (PEMFC) product scope, market overview, market opportunities, market driving force and market risks.

Chapter 2, to profile the top manufacturers of Proton Exchange Membrane Fuel Cells (PEMFC), with price, sales, revenue and global market share of Proton Exchange Membrane Fuel Cells (PEMFC) in 2017 and 2018.

Chapter 3, the Proton Exchange Membrane Fuel Cells (PEMFC) competitive situation, sales, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Proton Exchange Membrane Fuel Cells (PEMFC) breakdown data are shown at the regional level, to show the sales, revenue and growth by regions, from 2014 to 2019.

Chapter 5, 6, 7, 8 and 9, to break the sales data at the country level, with sales, revenue and market share for key countries in the world, from 2014 to 2019.

Chapter 10 and 11, to segment the sales by type and application, with sales market share and growth rate by type, application, from 2014 to 2019.

Chapter 12, Proton Exchange Membrane Fuel Cells (PEMFC) market forecast, by regions, type and application, with sales and revenue, from 2019 to 2024.

Chapter 13, 14 and 15, to describe Proton Exchange Membrane Fuel Cells (PEMFC) sales channel, distributors, customers, research findings and conclusion, appendix and data source.

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