

# **Proton Exchange Membrane Fuel Cells Market on the basis of Type (Perfluorinated, Partially Fluorinated and Hydrocarbon based), Application (Residential power, Automobiles, Consumer Electronics and Imaging devices), and Geography – Global Forecast up to 2027**

<https://marketpublishers.com/r/P7DA7577B612EN.html>

Date: July 2021

Pages: 98

Price: US\$ 4,000.00 (Single User License)

ID: P7DA7577B612EN

## **Abstracts**

The Proton Exchange Membrane Fuel Cells (PEMFC) Market is projected to grow at the rate of 39.6% CAGR by 2027. Proton Exchange Membrane Fuel Cell uses two electrodes and a polymer membrane as an electrolyte, a hydrogen-powered electromagnetic cell, offering high power density and poses the capability to operate at lower temperatures. Various core components such as the membrane electrode assembly (MEA), humidifiers, gaskets, bipolar plates, end plates, and current collectors are included in PEM Fuel Cell (PEMFC), which helps produce high efficiency. One of the significant drivers allowing the growth of the proton exchange membrane fuel cell market is the rising popularity and sales of fuel cell vehicles. Famous car manufacturers such as Hyundai, Toyota, Nissan, and others are attracted to fuel cell electric vehicles (FCEV), fostering the Proton Exchange Membrane Fuel Cell (PEMFC) Market trends. In addition, several initiatives and beneficial policies by governments supporting the adoption of sustainable energy substitutes depict one of the key factors boosting the growth of the proton exchange membrane fuel cell market. However, the surging demand for other electric vehicles and difficulty in managing mass hydrogen stations might limit the market growth.

Proton Exchange Membrane Fuel Cells Market on the basis of Type

Perfluorinated

Partially Fluorinated

Hydrocarbon based

#### Proton Exchange Membrane Fuel Cells Market on the basis of Application

Residential power

Automobiles

Consumer Electronics

Imaging devices

#### Proton Exchange Membrane Fuel Cells Market on the basis of Geography

North America

Europe

Asia Pacific

Rest of the World

Based on type, the proton exchange membrane fuel cell market is majorly divided into Perfluorinated, Partially Fluorinated, and Hydrocarbon based. Among them, the perfluorinated segment is projected to witness major growth over the forecast year. The segment's growth is ascribed to the excellent features of the perfluorinated proton exchange membrane fuel cell. Moreover, the perfluorinated proton exchange membrane fuel cell has a wide range of applications, driving the segment growth.

Further, based on the application, the proton exchange membrane fuel cell market is categorized into Residential power, Automobiles, Consumer Electronics, and Imaging devices. The automobiles have the major application of the proton exchange membrane fuel cell. These fuel cells have substantial demand in the automobile industry as the

electric vehicles market is growing at a rapid pace, leading to high demand for proton exchange membrane fuel cells. The escalating requirement for clean energy and the increasing need to curb carbon emission has promoted government focus towards the use of electric vehicles and plug-in hybrid vehicles.

The key geographical regions included in the proton exchange membrane fuel cell market are North America, Asia Pacific, Europe, and the RoW. The Asia Pacific region has a major share in the market. This is due to the increasing initiatives by several governments in the region to promote and increase hydrogen infrastructure.

In addition, from the past few years, the research and product development activities concerning utilities and UAVs for the defense sector, coupled with portable power generation units, have increased at a prominent pace worldwide. Moreover, the high emphasis of the governments worldwide on the usage of clean energy sources has increased the overall investments in producing electricity using proton exchange membrane fuel cells. Thus, the above-mentioned key factors are driving the global proton exchange membrane fuel cell market.

The proton exchange membrane fuel cell market includes various participants such as SFC Energy AG, AFC Energy PLC, Doosan Fuel Cell America, Inc., Nedstack Fuel Cell Technology B.V., Ballard Power Systems Inc., Toshiba Corporation, FuelCell Energy, Inc., Hydrogenics Corporation, Plug Power, Inc., and Panasonic Corporation.

Proton Exchange Membrane Fuel Cells are growing as a perfect power hotspot for small-scale applications, transportation, and stationary distributive power. PEMFCs are foreseen to hold an essential part in improving the environment, accomplishing energy security, and lessening urban contamination.

This report provides an overall analysis of the proton exchange membrane fuel cell market to illustrate the prominent investment pockets in the market.

This research also elucidates the recent and future trends to determine the overall attractiveness and identify the profitable trends to obtain a possible foothold in the market.

This report also provides complete information about the key drivers, restraints, and opportunities with impact analysis of the market.

The report further includes an analysis of the geographical market in terms of

various regions such as North America, Europe, Asia-Pacific, and the rest of the world.

## Contents

### **1. EXECUTIVE SUMMARY**

### **2. INDUSTRY OUTLOOK**

2.1. Industry Overview

2.2. Industry Trends

### **3. MARKET SNAPSHOT**

3.1. Market Definition

3.2. Market Outlook

3.2.1. Porter Five Forces

3.3. Related Markets

### **4. MARKET CHARACTERISTICS**

4.1. Market Overview

4.2. Market Segmentation

4.3. Market Dynamics

4.3.1. Drivers

4.3.2. Restraints

4.3.3. Opportunities

4.4. DRO - Impact Analysis

### **5. TYPE: MARKET SIZE & ANALYSIS**

5.1. Overview

5.2. Perfluorinated

5.3. Partially Fluorinated

5.4. Hydrocarbon based

### **6. APPLICATION: MARKET SIZE & ANALYSIS**

6.1. Overview

6.2. Residential power

6.3. Automobiles

6.4. Consumer Electronics

6.5. Imaging devices

## **7. GEOGRAPHY: MARKET SIZE & ANALYSIS**

7.1. Overview

7.2. North America

7.3. Europe

7.4. Asia Pacific

7.5. Rest of the World

## **8. COMPETITIVE LANDSCAPE**

8.1. Competitor Comparison Analysis

8.2. Market Developments

8.2.1. Mergers and Acquisitions, Legal, Awards, Partnerships

8.2.2. Product Launches and execution

## **9. VENDOR PROFILES**

9.1. SFC Energy AG

9.1.1. Overview

9.1.2. Financial Overview

9.1.3. Product Offerings

9.1.4. Developments

9.1.5. Business Strategy

9.2. AFC Energy PLC

9.2.1. Overview

9.2.2. Financial Overview

9.2.3. Product Offerings

9.2.4. Developments

9.2.5. Business Strategy

9.3. Doosan Fuel Cell America, Inc.

9.3.1. Overview

9.3.2. Financial Overview

9.3.3. Product Offerings

9.3.4. Developments

9.3.5. Business Strategy

9.4. Nedstack Fuel Cell Technology B.V.

9.4.1. Overview

- 9.4.2. Financial Overview
- 9.4.3. Product Offerings
- 9.4.4. Developments
- 9.4.5. Business Strategy
- 9.5. Ballard Power Systems Inc.
  - 9.5.1. Overview
  - 9.5.2. Financial Overview
  - 9.5.3. Product Offerings
  - 9.5.4. Developments
  - 9.5.5. Business Strategy
- 9.6. Toshiba Corporation
  - 9.6.1. Overview
  - 9.6.2. Financial Overview
  - 9.6.3. Product Offerings
  - 9.6.4. Developments
  - 9.6.5. Business Strategy
- 9.7. FuelCell Energy, Inc.
  - 9.7.1. Overview
  - 9.7.2. Financial Overview
  - 9.7.3. Product Offerings
  - 9.7.4. Developments
  - 9.7.5. Business Strategy
- 9.8. Hydrogenics Corporation
  - 9.8.1. Overview
  - 9.8.2. Financial Overview
  - 9.8.3. Product Offerings
  - 9.8.4. Developments
  - 9.8.5. Business Strategy
- 9.9. Plug Power, Inc.
  - 9.9.1. Overview
  - 9.9.2. Financial Overview
  - 9.9.3. Product Offerings
  - 9.9.4. Developments
  - 9.9.5. Business Strategy
- 9.10. Panasonic Corporation
  - 9.10.1. Overview
  - 9.10.2. Financial Overview
  - 9.10.3. Product Offerings
  - 9.10.4. Developments

9.10.5. Business Strategy

## **10. ANALYST OPINION**

## **11. ANNEXURE**

11.1. Report Scope

11.2. Market Definitions

11.3. Research Methodology

11.3.1. Data Collation and In-house Estimation

11.3.2. Market Triangulation

11.3.3. Forecasting

11.4. Report Assumptions

11.5. Declarations

11.6. Stakeholders

11.7. Abbreviations



## List Of Tables

### LIST OF TABLES

TABLE 1. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 2. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE FOR PERFLUORINATED, BY GEOGRAPHY, 2021-2027 (USD BILLION)

TABLE 3. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE FOR PARTIALLY FLUORINATED, BY GEOGRAPHY, 2021-2027 (USD BILLION)

TABLE 4. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE FOR HYDROCARBON BASED, BY GEOGRAPHY, 2021-2027 (USD BILLION)

TABLE 5. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 6. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE FOR RESIDENTIAL POWER, 2021-2027 (USD BILLION)

TABLE 7. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE FOR AUTOMOBILES, BY GEOGRAPHY, 2021-2027 (USD BILLION)

TABLE 8. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE FOR CONSUMER ELECTRONICS, BY GEOGRAPHY, 2021-2027 (USD BILLION)

TABLE 9. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE FOR IMAGING DEVICES, BY GEOGRAPHY, 2021-2027 (USD BILLION)

TABLE 10. NORTH AMERICA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY COUNTRY, 2021-2027 (USD BILLION)

TABLE 11. NORTH AMERICA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 12. NORTH AMERICA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 13. U.S PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 14. U.S PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 15. CANADA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 16. CANADA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 17. EUROPE PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET

VALUE, BY COUNTRY, 2021-2027 (USD BILLION)

TABLE 18. EUROPE PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 19. EUROPE PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, APPLICATION, 2021-2027 (USD BILLION)

TABLE 20. GERMANY PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 21. GERMANY PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 22. U.K PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 23. U.K PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 24. FRANCE PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 25. FRANCE PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 26. ITALY PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 27. ITALY PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 28. SPAIN PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 29. SPAIN PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 30. ROE PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 31. ROE PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 32. ASIA PACIFIC PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY COUNTRY, 2021-2027 (USD BILLION)

TABLE 33. ASIA PACIFIC PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 34. ASIA PACIFIC PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 35. CHINA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 36. CHINA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 37. INDIA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 38. INDIA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 39. JAPAN PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 40. JAPAN PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 41. REST OF APAC PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 42. REST OF APAC PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 43. REST OF WORLD PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

TABLE 44. REST OF WORLD PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

TABLE 45. SFC ENERGY AG: FINANCIALS

TABLE 46. SFC ENERGY AG: PRODUCTS & SERVICES

TABLE 47. SFC ENERGY AG: RECENT DEVELOPMENTS

TABLE 48. AFC ENERGY PLC: FINANCIALS

TABLE 49. AFC ENERGY PLC: PRODUCTS & SERVICES

TABLE 50. AFC ENERGY PLC: RECENT DEVELOPMENTS

TABLE 51. DOOSAN FUEL CELL AMERICA, INC: FINANCIALS

TABLE 52. DOOSAN FUEL CELL AMERICA, INC: PRODUCTS & SERVICES

TABLE 53. DOOSAN FUEL CELL AMERICA, INC: RECENT DEVELOPMENTS

TABLE 54. NEDSTACK FUEL CELL TECHNOLOGY B.V.: FINANCIALS

TABLE 55. NEDSTACK FUEL CELL TECHNOLOGY B.V.: PRODUCTS & SERVICES

TABLE 56. NEDSTACK FUEL CELL TECHNOLOGY B.V.: RECENT DEVELOPMENTS

TABLE 57. BALLARD POWER SYSTEMS INC.: FINANCIALS

TABLE 58. BALLARD POWER SYSTEMS INC.: PRODUCTS & SERVICES

TABLE 59. BALLARD POWER SYSTEMS INC.: RECENT DEVELOPMENTS

TABLE 60. TOSHIBA CORPORATION: FINANCIALS

TABLE 61. TOSHIBA CORPORATION: PRODUCTS & SERVICES

TABLE 62. TOSHIBA CORPORATION: RECENT DEVELOPMENTS

TABLE 63. FUELCELL ENERGY, INC: FINANCIALS

TABLE 64. FUELCELL ENERGY, INC: PRODUCTS & SERVICES

TABLE 65. FUELCELL ENERGY, INC: RECENT DEVELOPMENTS

TABLE 66. HYDROGENICS CORPORATION: FINANCIALS

TABLE 67. HYDROGENICS CORPORATION: PRODUCTS & SERVICES

TABLE 68. HYDROGENICS CORPORATION: RECENT DEVELOPMENTS

TABLE 69. PLUG POWER, INC: FINANCIALS

TABLE 70. PLUG POWER, INC: PRODUCTS & SERVICES

TABLE 71. PLUG POWER, INC: RECENT DEVELOPMENTS

TABLE 72. PANASONIC CORPORATION: FINANCIALS

TABLE 73. PANASONIC CORPORATION: PRODUCTS & SERVICES

TABLE 74. PANASONIC CORPORATION: RECENT DEVELOPMENTS

## List Of Figures

### LIST OF FIGURES

CHART. 1. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 2. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE FOR PERFLUORINATED, BY GEOGRAPHY, 2021-2027 (USD BILLION)

CHART. 3. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE FOR PARTIALLY FLUORINATED, BY GEOGRAPHY, 2021-2027 (USD BILLION)

CHART. 4. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE FOR HYDROCARBON BASED, BY GEOGRAPHY, 2021-2027 (USD BILLION)

CHART. 5. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

CHART. 6. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE FOR RESIDENTIAL POWER, 2021-2027 (USD BILLION)

CHART. 7. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE FOR AUTOMOBILES, BY GEOGRAPHY, 2021-2027 (USD BILLION)

CHART. 8. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE FOR CONSUMER ELECTRONICS, BY GEOGRAPHY, 2021-2027 (USD BILLION)

CHART. 9. GLOBAL PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE FOR IMAGING DEVICES, BY GEOGRAPHY, 2021-2027 (USD BILLION)

CHART. 10. NORTH AMERICA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY COUNTRY, 2021-2027 (USD BILLION)

CHART. 11. NORTH AMERICA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 12. NORTH AMERICA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

CHART. 13. U.S PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 14. U.S PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

CHART. 15. CANADA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 16. CANADA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

CHART. 17. EUROPE PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET

VALUE, BY COUNTRY, 2021-2027 (USD BILLION)

CHART. 18. EUROPE PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 19. EUROPE PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, APPLICATION, 2021-2027 (USD BILLION)

CHART. 20. GERMANY PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 21. GERMANY PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

CHART. 22. U.K PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 23. U.K PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

CHART. 24. FRANCE PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 25. FRANCE PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

CHART. 26. ITALY PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 27. ITALY PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

CHART. 28. SPAIN PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 29. SPAIN PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

CHART. 30. ROE PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 31. ROE PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

CHART. 32. ASIA PACIFIC PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY COUNTRY, 2021-2027 (USD BILLION)

CHART. 33. ASIA PACIFIC PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 34. ASIA PACIFIC PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

CHART. 35. CHINA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 36. CHINA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

CHART. 37. INDIA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 38. INDIA PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

CHART. 39. JAPAN PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 40. JAPAN PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

CHART. 41. REST OF APAC PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 42. REST OF APAC PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

CHART. 43. REST OF WORLD PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY TYPE, 2021-2027 (USD BILLION)

CHART. 44. REST OF WORLD PROTON EXCHANGE MEMBRANE FUEL CELLS MARKET VALUE, BY APPLICATION, 2021-2027 (USD BILLION)

## I would like to order

Product name: Proton Exchange Membrane Fuel Cells Market on the basis of Type (Perfluorinated, Partially Fluorinated and Hydrocarbon based), Application (Residential power, Automobiles, Consumer Electronics and Imaging devices), and Geography – Global Forecast up to 2027

Product link: <https://marketpublishers.com/r/P7DA7577B612EN.html>

Price: US\$ 4,000.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/P7DA7577B612EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>



To place an order via fax simply print this form, fill in the information below  
and fax the completed form to +44 20 7900 3970