

# Proton Exchange Membrane Fuel Cells Market Research: Global Status & Forecast by Geography, Type & Application (2017-2027)

<https://marketpublishers.com/r/P0D899A0B87EN.html>

Date: August 2021

Pages: 55

Price: US\$ 2,280.00 (Single User License)

ID: P0D899A0B87EN

## Abstracts

According to 99Strategy, the Global Proton Exchange Membrane Fuel Cells Market is estimated to reach xxx million USD in 2021 and projected to grow at the CAGR of xx% during the 2022-2027. The report analyses the global Proton Exchange Membrane Fuel Cells market, the market size and growth, as well as the major market participants.

The analysis includes market size, upstream situation, market segmentation, market segmentation, price & cost and industry environment. In addition, the report outlines the factors driving industry growth and the description of market channels. The report begins from overview of industrial chain structure, and describes the upstream. Besides, the report analyses market size and forecast in different geographies, type and end-use segment, in addition, the report introduces market competition overview among the major companies and companies profiles, besides, market price and channel features are covered in the report.

## Key Regions

Asia Pacific

North America

Europe

South America

Middle East & Africa

## Key Companies

Ballard

Shenli Hi-Tech

Sunrise Power

Pearl Hydrogen

Wuhan WUT

Foton

FeiChi Bus

SAIC

Dongfeng

Yutong

Hydrogenics

FuelCell Energy, Inc.

Horizon Fuel Cell Technologies

Nedstack

## Key Product Type

Stationary Fuel-Cells

Portable Fuel-Cells

## Market by Application

Distributed Generation

Back up Supply

Space Shuttle

Others

## Main Aspects covered in the Report

Overview of the Proton Exchange Membrane Fuel Cells market including production, consumption, status & forecast and market growth

2017-2021 historical data and 2022-2027 market forecast

Geographical analysis including major countries

Overview the product type market including development

Overview the end-user market including development

## Contents

### 1 INDUSTRIAL CHAIN OVERVIEW

#### 1.1 Proton Exchange Membrane Fuel Cells Industry

##### 1.1.1 Overview

Figure Proton Exchange Membrane Fuel Cells Picture List

##### 1.1.2 Characteristics of Proton Exchange Membrane Fuel Cells

#### 1.2 Upstream

##### 1.2.1 Major Materials

##### 1.2.2 Manufacturing Overview

#### 1.3 Product List By Type

##### 1.3.1 Stationary Fuel-Cells

##### 1.3.2 Portable Fuel-Cells

#### 1.4 End-Use List

##### 1.4.1 Demand in Distributed Generation

##### 1.4.2 Demand in Back up Supply

##### 1.4.3 Demand in Space Shuttle

##### 1.4.4 Demand in Others

#### 1.5 Global Market Overview

##### 1.5.1 Global Market Size and Forecast, 2017-2027

Figure Global Market Size and Forecast with Growth Rate, 2017-2027

##### 1.5.2 Global Market Size and Forecast by Geography with CAGR, 2017-2027

Table Global Market Size and Forecast by Geography with Growth Rate, 2017-2027

##### 1.5.3 Global Market Size and Forecast by Product Type with CAGR, 2017-2027

Table Global Market Size and Forecast by Type with Growth Rate, 2017-2027

##### 1.5.4 Global Market Size and Forecast by End-Use with CAGR, 2017-2027

Table Global Market Size and Forecast by End-Use with Growth Rate, 2017-2027

### 2 GLOBAL PRODUCTION & CONSUMPTION BY GEOGRAPHY

#### 2.1 Global Production & Consumption

##### 2.1.1 Global Production

Figure Global Production Amount Status and Growth Rate, 2017-2021, in Million USD

Table Global Production Amount Status and Growth Rate by Geography, 2017-2021, in Million USD

##### 2.1.2 Global Consumption

Figure Global Market Amount and Growth Rate, 2017-2021, in Million USD

Table Global Market Amount and Growth Rate by Geography, 2017-2021, in Million

## USD

### 2.2 Geographic Production & Consumption

#### 2.2.1 Production

##### 2.2.1.1 Asia-Pacific

Figure Asia-Pacific Production Amount Status and Growth Rate, 2017-2021, in Million USD

Table Asia-Pacific Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

##### 2.2.1.2 North America

Figure North America Production Amount Status and Growth Rate, 2017-2021, in Million USD

Table North America Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

##### 2.2.1.3 South America

Figure South America Production Amount Status and Growth Rate, 2017-2021, in Million USD

Table South America Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

##### 2.2.1.4 Europe

Figure Europe Production Amount Status and Growth Rate, 2017-2021, in Million USD

Table Europe Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

##### 2.2.1.5 Middle East & Africa

Figure Middle East & Africa Production Amount Status and Growth Rate, 2017-2021, in Million USD

Table Middle East & Africa Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

#### 2.2.2 Consumption

##### 2.2.2.1 Asia-Pacific

Figure Asia-Pacific Market Amount and Growth Rate, 2017-2021, in Million USD

Table Asia-Pacific Market Amount and Growth Rate by Region, 2017-2021, in Million USD

##### 2.2.2.2 North America

Figure North America Market Amount and Growth Rate, 2017-2021, in Million USD

Table North America Market Amount and Growth Rate by Region, 2017-2021, in Million USD

##### 2.2.2.3 South America

Figure South America Market Amount and Growth Rate, 2017-2021, in Million USD

Table South America Market Amount and Growth Rate by Region, 2017-2021, in Million USD

USD

2.2.2.4 Europe

Figure Europe Market Amount and Growth Rate, 2017-2021, in Million USD

Table Europe Market Amount and Growth Rate by Region, 2017-2021, in Million USD

2.2.2.5 Middle East & Africa

Figure Middle East & Africa Market Amount and Growth Rate, 2017-2021, in Million USD

Table Middle East & Africa Market Amount and Growth Rate by Region, 2017-2021, in Million USD

### **3 MAJOR MANUFACTURERS INTRODUCTION**

#### 3.1 Manufacturers Overview

Table Major Manufacturers Headquarters and Contact Information

Table Major Manufacturers Production Amount List in 2021

#### 3.2 Manufacturers List

##### 3.2.1 Ballard Overview

Table Ballard Overview List

###### 3.2.1.1 Product Specifications

###### 3.2.1.2 Business Data (Production Amount (Million USD), Cost, Margin)

Table Proton Exchange Membrane Fuel Cells Business Operation of Ballard (Production Amount (Million USD), Cost, Gross Margin)

###### 3.2.1.3 Recent Developments

###### 3.2.1.4 Future Strategic Planning

##### 3.2.2 Shenli Hi-Tech Overview

Table Shenli Hi-Tech Overview List

###### 3.2.2.1 Product Specifications

###### 3.2.2.2 Business Data (Production Amount (Million USD), Cost, Margin)

Table Proton Exchange Membrane Fuel Cells Business Operation of Shenli Hi-Tech (Production Amount (Million USD), Cost, Gross Margin)

###### 3.2.2.3 Recent Developments

###### 3.2.2.4 Future Strategic Planning

##### 3.2.3 Sunrise Power Overview

Table Sunrise Power Overview List

###### 3.2.3.1 Product Specifications

###### 3.2.3.2 Business Data (Production Amount (Million USD), Cost, Margin)

Table Proton Exchange Membrane Fuel Cells Business Operation of Sunrise Power (Production Amount (Million USD), Cost, Gross Margin)

###### 3.2.3.3 Recent Developments

### 3.2.3.4 Future Strategic Planning

### 3.2.4 Pearl Hydrogen Overview

#### Table Pearl Hydrogen Overview List

#### 3.2.4.1 Product Specifications

#### 3.2.4.2 Business Data (Production Amount (Million USD), Cost, Margin)

#### Table Proton Exchange Membrane Fuel Cells Business Operation of Pearl Hydrogen (Production Amount (Million USD), Cost, Gross Margin)

#### 3.2.4.3 Recent Developments

#### 3.2.4.4 Future Strategic Planning

### 3.2.5 Wuhan WUT Overview

#### Table Wuhan WUT Overview List

#### 3.2.5.1 Product Specifications

#### 3.2.5.2 Business Data (Production Amount (Million USD), Cost, Margin)

#### Table Proton Exchange Membrane Fuel Cells Business Operation of Wuhan WUT (Production Amount (Million USD), Cost, Gross Margin)

#### 3.2.5.3 Recent Developments

#### 3.2.5.4 Future Strategic Planning

### 3.2.6 Foton Overview

#### Table Foton Overview List

#### 3.2.6.1 Product Specifications

#### 3.2.6.2 Business Data (Production Amount (Million USD), Cost, Margin)

#### Table Proton Exchange Membrane Fuel Cells Business Operation of Foton (Production Amount (Million USD), Cost, Gross Margin)

#### 3.2.6.3 Recent Developments

#### 3.2.6.4 Future Strategic Planning

### 3.2.7 FeiChi Bus Overview

#### Table FeiChi Bus Overview List

#### 3.2.7.1 Product Specifications

#### 3.2.7.2 Business Data (Production Amount (Million USD), Cost, Margin)

#### Table Proton Exchange Membrane Fuel Cells Business Operation of FeiChi Bus (Production Amount (Million USD), Cost, Gross Margin)

#### 3.2.7.3 Recent Developments

#### 3.2.7.4 Future Strategic Planning

### 3.2.8 SAIC Overview

#### Table SAIC Overview List

#### 3.2.8.1 Product Specifications

#### 3.2.8.2 Business Data (Production Amount (Million USD), Cost, Margin)

#### Table Proton Exchange Membrane Fuel Cells Business Operation of SAIC (Production Amount (Million USD), Cost, Gross Margin)

3.2.8.3 Recent Developments

3.2.8.4 Future Strategic Planning

3.2.9 Dongfeng Overview

Table Dongfeng Overview List

3.2.9.1 Product Specifications

3.2.9.2 Business Data (Production Amount (Million USD), Cost, Margin)

Table Proton Exchange Membrane Fuel Cells Business Operation of Dongfeng  
(Production Amount (Million USD), Cost, Gross Margin)

3.2.9.3 Recent Developments

3.2.9.4 Future Strategic Planning

3.2.10 Yutong Overview

Table Yutong Overview List

3.2.10.1 Product Specifications

3.2.10.2 Business Data (Production Amount (Million USD), Cost, Margin)

Table Proton Exchange Membrane Fuel Cells Business Operation of Yutong  
(Production Amount (Million USD), Cost, Gross Margin)

3.2.10.3 Recent Developments

3.2.10.4 Future Strategic Planning

3.2.11 Hydrogenics Overview

Table Hydrogenics Overview List

3.2.11.1 Product Specifications

3.2.11.2 Business Data (Production Amount (Million USD), Cost, Margin)

Table Proton Exchange Membrane Fuel Cells Business Operation of Hydrogenics  
(Production Amount (Million USD), Cost, Gross Margin)

3.2.11.3 Recent Developments

3.2.11.4 Future Strategic Planning

3.2.12 FuelCell Energy, Inc. Overview

Table FuelCell Energy, Inc. Overview List

3.2.12.1 Product Specifications

3.2.12.2 Business Data (Production Amount (Million USD), Cost, Margin)

Table Proton Exchange Membrane Fuel Cells Business Operation of FuelCell Energy,  
Inc. (Production Amount (Million USD), Cost, Gross Margin)

3.2.12.3 Recent Developments

3.2.12.4 Future Strategic Planning

3.2.13 Horizon Fuel Cell Technologies Overview

Table Horizon Fuel Cell Technologies Overview List

3.2.13.1 Product Specifications

3.2.13.2 Business Data (Production Amount (Million USD), Cost, Margin)

Table Proton Exchange Membrane Fuel Cells Business Operation of Horizon Fuel Cell



Technologies (Production Amount (Million USD), Cost, Gross Margin)

3.2.13.3 Recent Developments

3.2.13.4 Future Strategic Planning

3.2.14 Nedstack Overview

Table Nedstack Overview List

3.2.14.1 Product Specifications

3.2.14.2 Business Data (Production Amount (Million USD), Cost, Margin)

Table Proton Exchange Membrane Fuel Cells Business Operation of Nedstack  
(Production Amount (Million USD), Cost, Gross Margin)

3.2.14.3 Recent Developments

3.2.14.4 Future Strategic Planning

## **4 MARKET COMPETITION PATTERN**

4.1 Market Size and Sketch

Figure Global Market Size and Growth Rate, 2017-2021, in Million USD

Figure Global Competition Sketch Overview

4.2 Company Market Share

4.2.1 Global Production by Major Manufacturers

Table Global Production Amount List by Manufacturers, 2017-2021, in Million USD

Table Global Production Amount Share List by Manufacturers, 2017-2021, in Million USD

Figure Global Production Amount Share by Manufacturers in 2021, in Million USD

4.2.2 Market Concentration Analysis

4.3 Market News and Trend

4.3.1 Merger & Acquisition

4.3.2 New Product Launch

## **5 PRODUCT TYPE SEGMENT**

5.1 Global Overview by Product Type Segment

Table Global Market Status and Growth Rate by Product Type Segment, 2017-2021, in Million USD

5.2 Segment Subdivision by Product Type

5.2.1 Market in Stationary Fuel-Cells

5.2.1.1 Market Size

Figure Global Market Amount and Growth Rate in Stationary Fuel-Cells, 2017-2021, in USD Million

5.2.1.2 Situation & Development

## 5.2.2 Market in Portable Fuel-Cells

### 5.2.2.1 Market Size

Figure Global Market Amount and Growth Rate in Portable Fuel-Cells, 2017-2021, in USD Million

### 5.2.2.2 Situation & Development

## 6 END-USE SEGMENT

### 6.1 Global Overview by End-Use Segment

Table Global Market Status and Growth Rate by End-Use Segment, 2017-2021, in Million USD

### 6.2 Segment Subdivision

#### 6.2.1 Market in Distributed Generation

##### 6.2.1.1 Market Size

Figure Global Market Amount and Growth Rate in Distributed Generation, 2017-2021, in USD Million

##### 6.2.1.2 Situation & Development

#### 6.2.2 Market in Back up Supply

##### 6.2.2.1 Market Size

Figure Global Market Amount and Growth Rate in Back up Supply, 2017-2021, in USD Million

##### 6.2.2.2 Situation & Development

#### 6.2.3 Market in Space Shuttle

##### 6.2.3.1 Market Size

Figure Global Market Amount and Growth Rate in Space Shuttle, 2017-2021, in USD Million

##### 6.2.3.2 Situation & Development

#### 6.2.4 Market in Others

##### 6.2.4.1 Market Size

Figure Global Market Amount and Growth Rate in Others, 2017-2021, in USD Million

##### 6.2.4.2 Situation & Development

## 7 MARKET FORECAST & TREND

### 7.1 Regional Forecast

Table Global Market Forecast by Region Segment 2022-2027, in Million USD

### 7.2 Consumption Forecast

#### 7.2.1 Product Type Forecast

Table Global Market Amount by Product Type Segment 2022-2027, in Million USD

### 7.2.2 End-Use Forecast

Table Global Market Amount by End-Use Segment 2022-2027, in Million USD

### 7.3 Investment Trend

### 7.4 Consumption Trend

## **8 PRICE & CHANNEL**

### 8.1 Price and Cost

#### 8.1.1 Price

#### 8.1.2 Cost

Figure Cost Component Ratio

### 8.2 Channel Segment

## **9 MARKET DRIVERS & INVESTMENT ENVIRONMENT**

### 9.1 Market Drivers

### 9.2 Investment Environment

### 9.3 Impact of Coronavirus on the Proton Exchange Membrane Fuel Cells Industry

#### 9.3.1 Impact on Industry Upstream

#### 9.3.2 Impact on Industry Downstream

#### 9.3.3 Impact on Industry Channels

#### 9.3.4 Impact on Industry Competition

#### 9.3.5 Impact on Industry Employment

## **10 RESEARCH CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table Global Market Size and Forecast by Geography with Growth Rate, 2017-2027

Table Global Market Size and Forecast by Type with Growth Rate, 2017-2027

Table Global Market Size and Forecast by End-Use with Growth Rate, 2017-2027

Table Global Production Amount Status and Growth Rate by Geography, 2017-2021, in Million USD

Table Global Market Amount and Growth Rate by Geography, 2017-2021, in Million USD

Table Asia-Pacific Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

Table North America Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

Table South America Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

Table Europe Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

Table Middle East & Africa Production Amount Status and Growth Rate by Region, 2017-2021, in Million USD

Table Asia-Pacific Market Amount and Growth Rate by Region, 2017-2021, in Million USD

Table North America Market Amount and Growth Rate by Region, 2017-2021, in Million USD

Table South America Market Amount and Growth Rate by Region, 2017-2021, in Million USD

Table Europe Market Amount and Growth Rate by Region, 2017-2021, in Million USD

Table Middle East & Africa Market Amount and Growth Rate by Region, 2017-2021, in Million USD

Table Major Manufacturers Headquarters and Contact Information

Table Major Manufacturers Production Amount List in 2021

Table Ballard Overview List

Table Proton Exchange Membrane Fuel Cells Business Operation of Ballard (Production Amount (Million USD), Cost, Gross Margin)

Table Shenli Hi-Tech Overview List

Table Proton Exchange Membrane Fuel Cells Business Operation of Shenli Hi-Tech (Production Amount (Million USD), Cost, Gross Margin)

Table Sunrise Power Overview List

Table Proton Exchange Membrane Fuel Cells Business Operation of Sunrise Power

(Production Amount (Million USD), Cost, Gross Margin)

Table Pearl Hydrogen Overview List

Table Proton Exchange Membrane Fuel Cells Business Operation of Pearl Hydrogen  
(Production Amount (Million USD), Cost, Gross Margin)

Table Wuhan WUT Overview List

Table Proton Exchange Membrane Fuel Cells Business Operation of Wuhan WUT  
(Production Amount (Million USD), Cost, Gross Margin)

Table Foton Overview List

Table Proton Exchange Membrane Fuel Cells Business Operation of Foton (Production  
Amount (Million USD), Cost, Gross Margin)

Table FeiChi Bus Overview List

Table Proton Exchange Membrane Fuel Cells Business Operation of FeiChi Bus  
(Production Amount (Million USD), Cost, Gross Margin)

Table SAIC Overview List

Table Proton Exchange Membrane Fuel Cells Business Operation of SAIC (Production  
Amount (Million USD), Cost, Gross Margin)

Table Dongfeng Overview List

Table Proton Exchange Membrane Fuel Cells Business Operation of Dongfeng  
(Production Amount (Million USD), Cost, Gross Margin)

Table Yutong Overview List

Table Proton Exchange Membrane Fuel Cells Business Operation of Yutong  
(Production Amount (Million USD), Cost, Gross Margin)

Table Hydrogenics Overview List

Table Proton Exchange Membrane Fuel Cells Business Operation of Hydrogenics  
(Production Amount (Million USD), Cost, Gross Margin)

Table FuelCell Energy, Inc. Overview List

Table Proton Exchange Membrane Fuel Cells Business Operation of FuelCell Energy,  
Inc. (Production Amount (Million USD), Cost, Gross Margin)

Table Horizon Fuel Cell Technologies Overview List

Table Proton Exchange Membrane Fuel Cells Business Operation of Horizon Fuel Cell  
Technologies (Production Amount (Million USD), Cost, Gross Margin)

Table Nedstack Overview List

Table Proton Exchange Membrane Fuel Cells Business Operation of Nedstack  
(Production Amount (Million USD), Cost, Gross Margin)

Table Global Production Amount List by Manufacturers, 2017-2021, in Million USD

Table Global Production Amount Share List by Manufacturers, 2017-2021, in Million  
USD

Table Global Market Status and Growth Rate by Product Type Segment, 2017-2021, in  
Million USD

Table Global Market Status and Growth Rate by End-Use Segment, 2017-2021, in Million USD

Table Global Market Forecast by Region Segment 2022-2027, in Million USD

Table Global Market Amount by Product Type Segment 2022-2027, in Million USD

Table Global Market Amount by End-Use Segment 2022-2027, in Million USD

## List Of Figures

### LIST OF FIGURES

Figure Proton Exchange Membrane Fuel Cells Picture List

Figure Global Market Size and Forecast with Growth Rate, 2017-2027

Figure Global Production Amount Status and Growth Rate, 2017-2021, in Million USD

Figure Global Market Amount and Growth Rate, 2017-2021, in Million USD

Figure Asia-Pacific Production Amount Status and Growth Rate, 2017-2021, in Million USD

Figure North America Production Amount Status and Growth Rate, 2017-2021, in Million USD

Figure South America Production Amount Status and Growth Rate, 2017-2021, in Million USD

Figure Europe Production Amount Status and Growth Rate, 2017-2021, in Million USD

Figure Middle East & Africa Production Amount Status and Growth Rate, 2017-2021, in Million USD

Figure Asia-Pacific Market Amount and Growth Rate, 2017-2021, in Million USD

Figure North America Market Amount and Growth Rate, 2017-2021, in Million USD

Figure South America Market Amount and Growth Rate, 2017-2021, in Million USD

Figure Europe Market Amount and Growth Rate, 2017-2021, in Million USD

Figure Middle East & Africa Market Amount and Growth Rate, 2017-2021, in Million USD

Figure Global Market Size and Growth Rate, 2017-2021, in Million USD

Figure Global Competition Sketch Overview

Figure Global Production Amount Share by Manufacturers in 2021, in Million USD

Figure Global Market Amount and Growth Rate in Stationary Fuel-Cells, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in Portable Fuel-Cells, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in Distributed Generation, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in Back up Supply, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in Space Shuttle, 2017-2021, in USD Million

Figure Global Market Amount and Growth Rate in Others, 2017-2021, in USD Million

Figure Cost Component Ratio

## I would like to order

Product name: Proton Exchange Membrane Fuel Cells Market Research: Global Status & Forecast by Geography, Type & Application (2017-2027)

Product link: <https://marketpublishers.com/r/P0D899A0B87EN.html>

Price: US\$ 2,280.00 (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/P0D899A0B87EN.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



