

Proton Exchange Membrane(PEM) Systems Market, Global Outlook and Forecast 2022-2028

<https://marketpublishers.com/r/PAD42E651410EN.html>

Date: March 2022

Pages: 112

Price: US\$ 3,250.00 (Single User License)

ID: PAD42E651410EN

Abstracts

This report contains market size and forecasts of Proton Exchange Membrane(PEM) Systems in global, including the following market information:

Global Proton Exchange Membrane(PEM) Systems Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Proton Exchange Membrane(PEM) Systems Market Sales, 2017-2022, 2023-2028, (Units)

Global top five Proton Exchange Membrane(PEM) Systems companies in 2021 (%)

The global Proton Exchange Membrane(PEM) Systems market was valued at million in 2021 and is projected to reach US\$ million by 2028, at a CAGR of % during the forecast period.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

Polyaromatic Polymers Membrane Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Proton Exchange Membrane(PEM) Systems include Demirdokum, Electrochem, ReliOn, Ballard Power Systems, UTC Power(UTC Fuel Cells), PEMEAS USA, E-TEK Inc, DowDuPont and 3M, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Proton Exchange Membrane(PEM) Systems manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Proton Exchange Membrane(PEM) Systems Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (Units)

Global Proton Exchange Membrane(PEM) Systems Market Segment Percentages, by Type, 2021 (%)

Polyaromatic Polymers Membrane

Partially Fluorinated Polymers Membrane

Global Proton Exchange Membrane(PEM) Systems Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (Units)

Global Proton Exchange Membrane(PEM) Systems Market Segment Percentages, by Application, 2021 (%)

Portable Power Supply

Power of the Vehicles

Decentralized Power Station

Others

Global Proton Exchange Membrane(PEM) Systems Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (Units)

Global Proton Exchange Membrane(PEM) Systems Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Proton Exchange Membrane(PEM) Systems revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Proton Exchange Membrane(PEM) Systems revenues share in global market, 2021 (%)

Key companies Proton Exchange Membrane(PEM) Systems sales in global market, 2017-2022 (Estimated), (Units)

Key companies Proton Exchange Membrane(PEM) Systems sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Demirdokum

Electrochem

ReliOn

Ballard Power Systems

UTC Power(UTC Fuel Cells)

PEMEAS USA

E-TEK Inc

DowDuPont

3M

Johnson Matthey

WL Gore

Hydrogenics

Lynntech

NedStack

Giner

Plug Power

Atlantic Fuel Cell

NuVant Systems

Vestel Elektronik

Contents

1 INTRODUCTION TO RESEARCH & ANALYSIS REPORTS

- 1.1 Proton Exchange Membrane(PEM) Systems Market Definition
- 1.2 Market Segments
 - 1.2.1 Market by Type
 - 1.2.2 Market by Application
- 1.3 Global Proton Exchange Membrane(PEM) Systems Market Overview
- 1.4 Features & Benefits of This Report
- 1.5 Methodology & Sources of Information
 - 1.5.1 Research Methodology
 - 1.5.2 Research Process
 - 1.5.3 Base Year
 - 1.5.4 Report Assumptions & Caveats

2 GLOBAL PROTON EXCHANGE MEMBRANE(PEM) SYSTEMS OVERALL MARKET SIZE

- 2.1 Global Proton Exchange Membrane(PEM) Systems Market Size: 2021 VS 2028
- 2.2 Global Proton Exchange Membrane(PEM) Systems Revenue, Prospects & Forecasts: 2017-2028
- 2.3 Global Proton Exchange Membrane(PEM) Systems Sales: 2017-2028

3 COMPANY LANDSCAPE

- 3.1 Top Proton Exchange Membrane(PEM) Systems Players in Global Market
- 3.2 Top Global Proton Exchange Membrane(PEM) Systems Companies Ranked by Revenue
- 3.3 Global Proton Exchange Membrane(PEM) Systems Revenue by Companies
- 3.4 Global Proton Exchange Membrane(PEM) Systems Sales by Companies
- 3.5 Global Proton Exchange Membrane(PEM) Systems Price by Manufacturer (2017-2022)
- 3.6 Top 3 and Top 5 Proton Exchange Membrane(PEM) Systems Companies in Global Market, by Revenue in 2021
- 3.7 Global Manufacturers Proton Exchange Membrane(PEM) Systems Product Type
- 3.8 Tier 1, Tier 2 and Tier 3 Proton Exchange Membrane(PEM) Systems Players in Global Market
 - 3.8.1 List of Global Tier 1 Proton Exchange Membrane(PEM) Systems Companies

3.8.2 List of Global Tier 2 and Tier 3 Proton Exchange Membrane(PEM) Systems Companies

4 SIGHTS BY PRODUCT

4.1 Overview

4.1.1 By Type - Global Proton Exchange Membrane(PEM) Systems Market Size Markets, 2021 & 2028

4.1.2 Polyaromatic Polymers Membrane

4.1.3 Partially Fluorinated Polymers Membrane

4.2 By Type - Global Proton Exchange Membrane(PEM) Systems Revenue & Forecasts

4.2.1 By Type - Global Proton Exchange Membrane(PEM) Systems Revenue, 2017-2022

4.2.2 By Type - Global Proton Exchange Membrane(PEM) Systems Revenue, 2023-2028

4.2.3 By Type - Global Proton Exchange Membrane(PEM) Systems Revenue Market Share, 2017-2028

4.3 By Type - Global Proton Exchange Membrane(PEM) Systems Sales & Forecasts

4.3.1 By Type - Global Proton Exchange Membrane(PEM) Systems Sales, 2017-2022

4.3.2 By Type - Global Proton Exchange Membrane(PEM) Systems Sales, 2023-2028

4.3.3 By Type - Global Proton Exchange Membrane(PEM) Systems Sales Market Share, 2017-2028

4.4 By Type - Global Proton Exchange Membrane(PEM) Systems Price (Manufacturers Selling Prices), 2017-2028

5 SIGHTS BY APPLICATION

5.1 Overview

5.1.1 By Application - Global Proton Exchange Membrane(PEM) Systems Market Size, 2021 & 2028

5.1.2 Portable Power Supply

5.1.3 Power of the Vehicles

5.1.4 Decentralized Power Station

5.1.5 Others

5.2 By Application - Global Proton Exchange Membrane(PEM) Systems Revenue & Forecasts

5.2.1 By Application - Global Proton Exchange Membrane(PEM) Systems Revenue, 2017-2022

5.2.2 By Application - Global Proton Exchange Membrane(PEM) Systems Revenue,

2023-2028

5.2.3 By Application - Global Proton Exchange Membrane(PEM) Systems Revenue Market Share, 2017-2028

5.3 By Application - Global Proton Exchange Membrane(PEM) Systems Sales & Forecasts

5.3.1 By Application - Global Proton Exchange Membrane(PEM) Systems Sales, 2017-2022

5.3.2 By Application - Global Proton Exchange Membrane(PEM) Systems Sales, 2023-2028

5.3.3 By Application - Global Proton Exchange Membrane(PEM) Systems Sales Market Share, 2017-2028

5.4 By Application - Global Proton Exchange Membrane(PEM) Systems Price (Manufacturers Selling Prices), 2017-2028

6 SIGHTS BY REGION

6.1 By Region - Global Proton Exchange Membrane(PEM) Systems Market Size, 2021 & 2028

6.2 By Region - Global Proton Exchange Membrane(PEM) Systems Revenue & Forecasts

6.2.1 By Region - Global Proton Exchange Membrane(PEM) Systems Revenue, 2017-2022

6.2.2 By Region - Global Proton Exchange Membrane(PEM) Systems Revenue, 2023-2028

6.2.3 By Region - Global Proton Exchange Membrane(PEM) Systems Revenue Market Share, 2017-2028

6.3 By Region - Global Proton Exchange Membrane(PEM) Systems Sales & Forecasts

6.3.1 By Region - Global Proton Exchange Membrane(PEM) Systems Sales, 2017-2022

6.3.2 By Region - Global Proton Exchange Membrane(PEM) Systems Sales, 2023-2028

6.3.3 By Region - Global Proton Exchange Membrane(PEM) Systems Sales Market Share, 2017-2028

6.4 North America

6.4.1 By Country - North America Proton Exchange Membrane(PEM) Systems Revenue, 2017-2028

6.4.2 By Country - North America Proton Exchange Membrane(PEM) Systems Sales, 2017-2028

6.4.3 US Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.4.4 Canada Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.4.5 Mexico Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.5 Europe

6.5.1 By Country - Europe Proton Exchange Membrane(PEM) Systems Revenue, 2017-2028

6.5.2 By Country - Europe Proton Exchange Membrane(PEM) Systems Sales, 2017-2028

6.5.3 Germany Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.5.4 France Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.5.5 U.K. Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.5.6 Italy Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.5.7 Russia Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.5.8 Nordic Countries Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.5.9 Benelux Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.6 Asia

6.6.1 By Region - Asia Proton Exchange Membrane(PEM) Systems Revenue, 2017-2028

6.6.2 By Region - Asia Proton Exchange Membrane(PEM) Systems Sales, 2017-2028

6.6.3 China Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.6.4 Japan Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.6.5 South Korea Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.6.6 Southeast Asia Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.6.7 India Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.7 South America

6.7.1 By Country - South America Proton Exchange Membrane(PEM) Systems Revenue, 2017-2028

6.7.2 By Country - South America Proton Exchange Membrane(PEM) Systems Sales, 2017-2028

6.7.3 Brazil Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.7.4 Argentina Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

6.8 Middle East & Africa

6.8.1 By Country - Middle East & Africa Proton Exchange Membrane(PEM) Systems Revenue, 2017-2028

6.8.2 By Country - Middle East & Africa Proton Exchange Membrane(PEM) Systems Sales, 2017-2028

6.8.3 Turkey Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

- 6.8.4 Israel Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028
- 6.8.5 Saudi Arabia Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028
- 6.8.6 UAE Proton Exchange Membrane(PEM) Systems Market Size, 2017-2028

7 MANUFACTURERS & BRANDS PROFILES

7.1 Demirdokum

- 7.1.1 Demirdokum Corporate Summary
- 7.1.2 Demirdokum Business Overview
- 7.1.3 Demirdokum Proton Exchange Membrane(PEM) Systems Major Product Offerings
- 7.1.4 Demirdokum Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)
- 7.1.5 Demirdokum Key News

7.2 Electrochem

- 7.2.1 Electrochem Corporate Summary
- 7.2.2 Electrochem Business Overview
- 7.2.3 Electrochem Proton Exchange Membrane(PEM) Systems Major Product Offerings
- 7.2.4 Electrochem Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)
- 7.2.5 Electrochem Key News

7.3 ReliOn

- 7.3.1 ReliOn Corporate Summary
- 7.3.2 ReliOn Business Overview
- 7.3.3 ReliOn Proton Exchange Membrane(PEM) Systems Major Product Offerings
- 7.3.4 ReliOn Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)
- 7.3.5 ReliOn Key News

7.4 Ballard Power Systems

- 7.4.1 Ballard Power Systems Corporate Summary
- 7.4.2 Ballard Power Systems Business Overview
- 7.4.3 Ballard Power Systems Proton Exchange Membrane(PEM) Systems Major Product Offerings
- 7.4.4 Ballard Power Systems Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)
- 7.4.5 Ballard Power Systems Key News

7.5 UTC Power(UTC Fuel Cells)

- 7.5.1 UTC Power(UTC Fuel Cells) Corporate Summary
- 7.5.2 UTC Power(UTC Fuel Cells) Business Overview
- 7.5.3 UTC Power(UTC Fuel Cells) Proton Exchange Membrane(PEM) Systems Major Product Offerings
- 7.5.4 UTC Power(UTC Fuel Cells) Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)
- 7.5.5 UTC Power(UTC Fuel Cells) Key News
- 7.6 PEMEAS USA
 - 7.6.1 PEMEAS USA Corporate Summary
 - 7.6.2 PEMEAS USA Business Overview
 - 7.6.3 PEMEAS USA Proton Exchange Membrane(PEM) Systems Major Product Offerings
 - 7.6.4 PEMEAS USA Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)
 - 7.6.5 PEMEAS USA Key News
- 7.7 E-TEK Inc
 - 7.7.1 E-TEK Inc Corporate Summary
 - 7.7.2 E-TEK Inc Business Overview
 - 7.7.3 E-TEK Inc Proton Exchange Membrane(PEM) Systems Major Product Offerings
 - 7.7.4 E-TEK Inc Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)
 - 7.7.5 E-TEK Inc Key News
- 7.8 DowDuPont
 - 7.8.1 DowDuPont Corporate Summary
 - 7.8.2 DowDuPont Business Overview
 - 7.8.3 DowDuPont Proton Exchange Membrane(PEM) Systems Major Product Offerings
 - 7.8.4 DowDuPont Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)
 - 7.8.5 DowDuPont Key News
- 7.9 3M
 - 7.9.1 3M Corporate Summary
 - 7.9.2 3M Business Overview
 - 7.9.3 3M Proton Exchange Membrane(PEM) Systems Major Product Offerings
 - 7.9.4 3M Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)
 - 7.9.5 3M Key News
- 7.10 Johnson Matthey
 - 7.10.1 Johnson Matthey Corporate Summary

- 7.10.2 Johnson Matthey Business Overview
- 7.10.3 Johnson Matthey Proton Exchange Membrane(PEM) Systems Major Product Offerings
- 7.10.4 Johnson Matthey Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)
- 7.10.5 Johnson Matthey Key News
- 7.11 WL Gore
 - 7.11.1 WL Gore Corporate Summary
 - 7.11.2 WL Gore Proton Exchange Membrane(PEM) Systems Business Overview
 - 7.11.3 WL Gore Proton Exchange Membrane(PEM) Systems Major Product Offerings
 - 7.11.4 WL Gore Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)
 - 7.11.5 WL Gore Key News
- 7.12 Hydrogenics
 - 7.12.1 Hydrogenics Corporate Summary
 - 7.12.2 Hydrogenics Proton Exchange Membrane(PEM) Systems Business Overview
 - 7.12.3 Hydrogenics Proton Exchange Membrane(PEM) Systems Major Product Offerings
 - 7.12.4 Hydrogenics Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)
 - 7.12.5 Hydrogenics Key News
- 7.13 Lynntech
 - 7.13.1 Lynntech Corporate Summary
 - 7.13.2 Lynntech Proton Exchange Membrane(PEM) Systems Business Overview
 - 7.13.3 Lynntech Proton Exchange Membrane(PEM) Systems Major Product Offerings
 - 7.13.4 Lynntech Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)
 - 7.13.5 Lynntech Key News
- 7.14 NedStack
 - 7.14.1 NedStack Corporate Summary
 - 7.14.2 NedStack Business Overview
 - 7.14.3 NedStack Proton Exchange Membrane(PEM) Systems Major Product Offerings
 - 7.14.4 NedStack Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)
 - 7.14.5 NedStack Key News
- 7.15 Giner
 - 7.15.1 Giner Corporate Summary
 - 7.15.2 Giner Business Overview
 - 7.15.3 Giner Proton Exchange Membrane(PEM) Systems Major Product Offerings

7.15.4 Giner Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)

7.15.5 Giner Key News

7.16 Plug Power

7.16.1 Plug Power Corporate Summary

7.16.2 Plug Power Business Overview

7.16.3 Plug Power Proton Exchange Membrane(PEM) Systems Major Product Offerings

7.16.4 Plug Power Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)

7.16.5 Plug Power Key News

7.17 Atlantic Fuel Cell

7.17.1 Atlantic Fuel Cell Corporate Summary

7.17.2 Atlantic Fuel Cell Business Overview

7.17.3 Atlantic Fuel Cell Proton Exchange Membrane(PEM) Systems Major Product Offerings

7.17.4 Atlantic Fuel Cell Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)

7.17.5 Atlantic Fuel Cell Key News

7.18 NuVant Systems

7.18.1 NuVant Systems Corporate Summary

7.18.2 NuVant Systems Business Overview

7.18.3 NuVant Systems Proton Exchange Membrane(PEM) Systems Major Product Offerings

7.18.4 NuVant Systems Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)

7.18.5 NuVant Systems Key News

7.19 Vestel Elektronik

7.19.1 Vestel Elektronik Corporate Summary

7.19.2 Vestel Elektronik Business Overview

7.19.3 Vestel Elektronik Proton Exchange Membrane(PEM) Systems Major Product Offerings

7.19.4 Vestel Elektronik Proton Exchange Membrane(PEM) Systems Sales and Revenue in Global (2017-2022)

7.19.5 Vestel Elektronik Key News

8 GLOBAL PROTON EXCHANGE MEMBRANE(PEM) SYSTEMS PRODUCTION CAPACITY, ANALYSIS

8.1 Global Proton Exchange Membrane(PEM) Systems Production Capacity, 2017-2028

8.2 Proton Exchange Membrane(PEM) Systems Production Capacity of Key Manufacturers in Global Market

8.3 Global Proton Exchange Membrane(PEM) Systems Production by Region

9 KEY MARKET TRENDS, OPPORTUNITY, DRIVERS AND RESTRAINTS

9.1 Market Opportunities & Trends

9.2 Market Drivers

9.3 Market Restraints

10 PROTON EXCHANGE MEMBRANE(PEM) SYSTEMS SUPPLY CHAIN ANALYSIS

10.1 Proton Exchange Membrane(PEM) Systems Industry Value Chain

10.2 Proton Exchange Membrane(PEM) Systems Upstream Market

10.3 Proton Exchange Membrane(PEM) Systems Downstream and Clients

10.4 Marketing Channels Analysis

10.4.1 Marketing Channels

10.4.2 Proton Exchange Membrane(PEM) Systems Distributors and Sales Agents in Global

11 CONCLUSION

12 APPENDIX

12.1 Note

12.2 Examples of Clients

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Key Players of Proton Exchange Membrane(PEM) Systems in Global Market

Table 2. Top Proton Exchange Membrane(PEM) Systems Players in Global Market, Ranking by Revenue (2021)

Table 3. Global Proton Exchange Membrane(PEM) Systems Revenue by Companies, (US\$, Mn), 2017-2022

Table 4. Global Proton Exchange Membrane(PEM) Systems Revenue Share by Companies, 2017-2022

Table 5. Global Proton Exchange Membrane(PEM) Systems Sales by Companies, (Units), 2017-2022

Table 6. Global Proton Exchange Membrane(PEM) Systems Sales Share by Companies, 2017-2022

Table 7. Key Manufacturers Proton Exchange Membrane(PEM) Systems Price (2017-2022) & (USD/Unit)

Table 8. Global Manufacturers Proton Exchange Membrane(PEM) Systems Product Type

Table 9. List of Global Tier 1 Proton Exchange Membrane(PEM) Systems Companies, Revenue (US\$, Mn) in 2021 and Market Share

Table 10. List of Global Tier 2 and Tier 3 Proton Exchange Membrane(PEM) Systems Companies, Revenue (US\$, Mn) in 2021 and Market Share

Table 11. By Type – Global Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2021 & 2028

Table 12. By Type - Global Proton Exchange Membrane(PEM) Systems Revenue (US\$, Mn), 2017-2022

Table 13. By Type - Global Proton Exchange Membrane(PEM) Systems Revenue (US\$, Mn), 2023-2028

Table 14. By Type - Global Proton Exchange Membrane(PEM) Systems Sales (Units), 2017-2022

Table 15. By Type - Global Proton Exchange Membrane(PEM) Systems Sales (Units), 2023-2028

Table 16. By Application – Global Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2021 & 2028

Table 17. By Application - Global Proton Exchange Membrane(PEM) Systems Revenue (US\$, Mn), 2017-2022

Table 18. By Application - Global Proton Exchange Membrane(PEM) Systems Revenue (US\$, Mn), 2023-2028

Table 19. By Application - Global Proton Exchange Membrane(PEM) Systems Sales (Units), 2017-2022

Table 20. By Application - Global Proton Exchange Membrane(PEM) Systems Sales (Units), 2023-2028

Table 21. By Region – Global Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2021 VS 2028

Table 22. By Region - Global Proton Exchange Membrane(PEM) Systems Revenue (US\$, Mn), 2017-2022

Table 23. By Region - Global Proton Exchange Membrane(PEM) Systems Revenue (US\$, Mn), 2023-2028

Table 24. By Region - Global Proton Exchange Membrane(PEM) Systems Sales (Units), 2017-2022

Table 25. By Region - Global Proton Exchange Membrane(PEM) Systems Sales (Units), 2023-2028

Table 26. By Country - North America Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2022

Table 27. By Country - North America Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2023-2028

Table 28. By Country - North America Proton Exchange Membrane(PEM) Systems Sales, (Units), 2017-2022

Table 29. By Country - North America Proton Exchange Membrane(PEM) Systems Sales, (Units), 2023-2028

Table 30. By Country - Europe Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2022

Table 31. By Country - Europe Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2023-2028

Table 32. By Country - Europe Proton Exchange Membrane(PEM) Systems Sales, (Units), 2017-2022

Table 33. By Country - Europe Proton Exchange Membrane(PEM) Systems Sales, (Units), 2023-2028

Table 34. By Region - Asia Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2022

Table 35. By Region - Asia Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2023-2028

Table 36. By Region - Asia Proton Exchange Membrane(PEM) Systems Sales, (Units), 2017-2022

Table 37. By Region - Asia Proton Exchange Membrane(PEM) Systems Sales, (Units), 2023-2028

Table 38. By Country - South America Proton Exchange Membrane(PEM) Systems

Revenue, (US\$, Mn), 2017-2022

Table 39. By Country - South America Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2023-2028

Table 40. By Country - South America Proton Exchange Membrane(PEM) Systems Sales, (Units), 2017-2022

Table 41. By Country - South America Proton Exchange Membrane(PEM) Systems Sales, (Units), 2023-2028

Table 42. By Country - Middle East & Africa Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2022

Table 43. By Country - Middle East & Africa Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2023-2028

Table 44. By Country - Middle East & Africa Proton Exchange Membrane(PEM) Systems Sales, (Units), 2017-2022

Table 45. By Country - Middle East & Africa Proton Exchange Membrane(PEM) Systems Sales, (Units), 2023-2028

Table 46. Demirdokum Corporate Summary

Table 47. Demirdokum Proton Exchange Membrane(PEM) Systems Product Offerings

Table 48. Demirdokum Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 49. Electrochem Corporate Summary

Table 50. Electrochem Proton Exchange Membrane(PEM) Systems Product Offerings

Table 51. Electrochem Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 52. ReliOn Corporate Summary

Table 53. ReliOn Proton Exchange Membrane(PEM) Systems Product Offerings

Table 54. ReliOn Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 55. Ballard Power Systems Corporate Summary

Table 56. Ballard Power Systems Proton Exchange Membrane(PEM) Systems Product Offerings

Table 57. Ballard Power Systems Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 58. UTC Power(UTC Fuel Cells) Corporate Summary

Table 59. UTC Power(UTC Fuel Cells) Proton Exchange Membrane(PEM) Systems Product Offerings

Table 60. UTC Power(UTC Fuel Cells) Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 61. PEMEAS USA Corporate Summary

Table 62. PEMEAS USA Proton Exchange Membrane(PEM) Systems Product Offerings

Table 63. PEMEAS USA Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 64. E-TEK Inc Corporate Summary

Table 65. E-TEK Inc Proton Exchange Membrane(PEM) Systems Product Offerings

Table 66. E-TEK Inc Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 67. DowDuPont Corporate Summary

Table 68. DowDuPont Proton Exchange Membrane(PEM) Systems Product Offerings

Table 69. DowDuPont Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 70. 3M Corporate Summary

Table 71. 3M Proton Exchange Membrane(PEM) Systems Product Offerings

Table 72. 3M Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 73. Johnson Matthey Corporate Summary

Table 74. Johnson Matthey Proton Exchange Membrane(PEM) Systems Product Offerings

Table 75. Johnson Matthey Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 76. WL Gore Corporate Summary

Table 77. WL Gore Proton Exchange Membrane(PEM) Systems Product Offerings

Table 78. WL Gore Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 79. Hydrogenics Corporate Summary

Table 80. Hydrogenics Proton Exchange Membrane(PEM) Systems Product Offerings

Table 81. Hydrogenics Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 82. Lynntech Corporate Summary

Table 83. Lynntech Proton Exchange Membrane(PEM) Systems Product Offerings

Table 84. Lynntech Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 85. NedStack Corporate Summary

Table 86. NedStack Proton Exchange Membrane(PEM) Systems Product Offerings

Table 87. NedStack Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 88. Giner Corporate Summary

Table 89. Giner Proton Exchange Membrane(PEM) Systems Product Offerings

Table 90. Giner Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)

Table 91. Plug Power Corporate Summary
Table 92. Plug Power Proton Exchange Membrane(PEM) Systems Product Offerings
Table 93. Plug Power Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)
Table 94. Atlantic Fuel Cell Corporate Summary
Table 95. Atlantic Fuel Cell Proton Exchange Membrane(PEM) Systems Product Offerings
Table 96. Atlantic Fuel Cell Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)
Table 97. NuVant Systems Corporate Summary
Table 98. NuVant Systems Proton Exchange Membrane(PEM) Systems Product Offerings
Table 99. NuVant Systems Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)
Table 100. Vestel Elektronik Corporate Summary
Table 101. Vestel Elektronik Proton Exchange Membrane(PEM) Systems Product Offerings
Table 102. Vestel Elektronik Proton Exchange Membrane(PEM) Systems Sales (Units), Revenue (US\$, Mn) and Average Price (USD/Unit) (2017-2022)
Table 103. Proton Exchange Membrane(PEM) Systems Production Capacity (Units) of Key Manufacturers in Global Market, 2020-2022 (Units)
Table 104. Global Proton Exchange Membrane(PEM) Systems Capacity Market Share of Key Manufacturers, 2020-2022
Table 105. Global Proton Exchange Membrane(PEM) Systems Production by Region, 2017-2022 (Units)
Table 106. Global Proton Exchange Membrane(PEM) Systems Production by Region, 2023-2028 (Units)
Table 107. Proton Exchange Membrane(PEM) Systems Market Opportunities & Trends in Global Market
Table 108. Proton Exchange Membrane(PEM) Systems Market Drivers in Global Market
Table 109. Proton Exchange Membrane(PEM) Systems Market Restraints in Global Market
Table 110. Proton Exchange Membrane(PEM) Systems Raw Materials
Table 111. Proton Exchange Membrane(PEM) Systems Raw Materials Suppliers in Global Market
Table 112. Typical Proton Exchange Membrane(PEM) Systems Downstream
Table 113. Proton Exchange Membrane(PEM) Systems Downstream Clients in Global Market

Table 114. Proton Exchange Membrane(PEM) Systems Distributors and Sales Agents in Global Market

List Of Figures

LIST OF FIGURES

Figure 1. Proton Exchange Membrane(PEM) Systems Segment by Type

Figure 2. Proton Exchange Membrane(PEM) Systems Segment by Application

Figure 3. Global Proton Exchange Membrane(PEM) Systems Market Overview: 2021

Figure 4. Key Caveats

Figure 5. Global Proton Exchange Membrane(PEM) Systems Market Size: 2021 VS 2028 (US\$, Mn)

Figure 6. Global Proton Exchange Membrane(PEM) Systems Revenue, 2017-2028 (US\$, Mn)

Figure 7. Proton Exchange Membrane(PEM) Systems Sales in Global Market: 2017-2028 (Units)

Figure 8. The Top 3 and 5 Players Market Share by Proton Exchange Membrane(PEM) Systems Revenue in 2021

Figure 9. By Type - Global Proton Exchange Membrane(PEM) Systems Sales Market Share, 2017-2028

Figure 10. By Type - Global Proton Exchange Membrane(PEM) Systems Revenue Market Share, 2017-2028

Figure 11. By Type - Global Proton Exchange Membrane(PEM) Systems Price (USD/Unit), 2017-2028

Figure 12. By Application - Global Proton Exchange Membrane(PEM) Systems Sales Market Share, 2017-2028

Figure 13. By Application - Global Proton Exchange Membrane(PEM) Systems Revenue Market Share, 2017-2028

Figure 14. By Application - Global Proton Exchange Membrane(PEM) Systems Price (USD/Unit), 2017-2028

Figure 15. By Region - Global Proton Exchange Membrane(PEM) Systems Sales Market Share, 2017-2028

Figure 16. By Region - Global Proton Exchange Membrane(PEM) Systems Revenue Market Share, 2017-2028

Figure 17. By Country - North America Proton Exchange Membrane(PEM) Systems Revenue Market Share, 2017-2028

Figure 18. By Country - North America Proton Exchange Membrane(PEM) Systems Sales Market Share, 2017-2028

Figure 19. US Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 20. Canada Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

2017-2028

Figure 21. Mexico Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 22. By Country - Europe Proton Exchange Membrane(PEM) Systems Revenue Market Share, 2017-2028

Figure 23. By Country - Europe Proton Exchange Membrane(PEM) Systems Sales Market Share, 2017-2028

Figure 24. Germany Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 25. France Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 26. U.K. Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 27. Italy Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 28. Russia Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 29. Nordic Countries Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 30. Benelux Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 31. By Region - Asia Proton Exchange Membrane(PEM) Systems Revenue Market Share, 2017-2028

Figure 32. By Region - Asia Proton Exchange Membrane(PEM) Systems Sales Market Share, 2017-2028

Figure 33. China Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 34. Japan Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 35. South Korea Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 36. Southeast Asia Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 37. India Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 38. By Country - South America Proton Exchange Membrane(PEM) Systems Revenue Market Share, 2017-2028

Figure 39. By Country - South America Proton Exchange Membrane(PEM) Systems Sales Market Share, 2017-2028

Figure 40. Brazil Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 41. Argentina Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 42. By Country - Middle East & Africa Proton Exchange Membrane(PEM) Systems Revenue Market Share, 2017-2028

Figure 43. By Country - Middle East & Africa Proton Exchange Membrane(PEM) Systems Sales Market Share, 2017-2028

Figure 44. Turkey Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 45. Israel Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 46. Saudi Arabia Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 47. UAE Proton Exchange Membrane(PEM) Systems Revenue, (US\$, Mn), 2017-2028

Figure 48. Global Proton Exchange Membrane(PEM) Systems Production Capacity (Units), 2017-2028

Figure 49. The Percentage of Production Proton Exchange Membrane(PEM) Systems by Region, 2021 VS 2028

Figure 50. Proton Exchange Membrane(PEM) Systems Industry Value Chain

Figure 51. Marketing Channels

I would like to order

Product name: Proton Exchange Membrane(PEM) Systems Market, Global Outlook and Forecast 2022-2028

Product link: <https://marketpublishers.com/r/PAD42E651410EN.html>

Price: US\$ 3,250.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/PAD42E651410EN.html>