

Global PEM Electrolyzer Membrane Electrode Assembly Market Growth 2026-2032

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Abstracts

The global PEM Electrolyzer Membrane Electrode Assembly market size is predicted to grow from US\$ 156 million in 2025 to US\$ 321 million in 2032; it is expected to grow at a CAGR of 11.1% from 2026 to 2032.

A PEM (Proton Exchange Membrane) Electrolyzer Membrane Electrode Assembly (MEA) is the core component of a PEM electrolyzer, used for producing hydrogen from water. It consists of a proton-conducting membrane (typically a perfluorosulfonic acid polymer) sandwiched between an anode and a cathode. At the anode, water is oxidized to produce oxygen, protons (H⁺), and electrons. The protons pass through the membrane to the cathode, where they combine with electrons to form hydrogen gas. The MEA facilitates this electrochemical reaction, enabling efficient hydrogen production.

The PEM electrolyzer MEA industry is experiencing rapid growth, driven by the increasing global demand for green hydrogen as a clean energy carrier. Key industry trends include:

Cost reduction: A major focus is on reducing the cost of MEAs, primarily through decreasing the use of expensive platinum group metals (PGMs) as catalysts and developing more cost-effective membrane materials. Research is exploring non-PGM catalysts and advanced membrane fabrication techniques.

Performance enhancement: Improving the performance of MEAs is crucial for increasing hydrogen production efficiency. This involves optimizing electrode structures, enhancing mass transport, and developing more durable and conductive membranes.

Durability improvement: Enhancing the long-term durability and stability of MEAs under demanding operating conditions is a key challenge. Research is focused on mitigating membrane degradation, catalyst corrosion, and other degradation mechanisms.

Scaling up production: To meet the anticipated demand for PEM electrolyzers, the industry is focusing on scaling up MEA production through automated manufacturing processes and improved supply chains.

Integration with renewable energy: There's a growing trend of integrating PEM electrolyzers with renewable energy sources like solar and wind power to produce green hydrogen sustainably.

Application diversification: While hydrogen production for industrial uses and fuel cell vehicles is a major driver, there's increasing interest in using PEM electrolyzers for other applications, such as power-to-gas, energy storage, and hydrogen refueling stations.

LP Information, Inc. (LPI) ' newest research report, the "PEM Electrolyzer Membrane Electrode Assembly Industry Forecast" looks at past sales and reviews total world PEM Electrolyzer Membrane Electrode Assembly sales in 2025, providing a comprehensive analysis by region and market sector of projected PEM Electrolyzer Membrane Electrode Assembly sales for 2026 through 2032. With PEM Electrolyzer Membrane Electrode Assembly sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world PEM Electrolyzer Membrane Electrode Assembly industry.

This Insight Report provides a comprehensive analysis of the global PEM Electrolyzer Membrane Electrode Assembly landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on PEM Electrolyzer Membrane Electrode Assembly portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PEM Electrolyzer Membrane Electrode Assembly market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PEM Electrolyzer Membrane Electrode Assembly and breaks down the forecast by Type, by Application, geography, and market size to

highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global PEM Electrolyzer Membrane Electrode Assembly.

This report presents a comprehensive overview, market shares, and growth opportunities of PEM Electrolyzer Membrane Electrode Assembly market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Hot-Press Approach Membrane Electrode

CCM 3-in-1 Membrane Electrode

Ordering Membrane Electrode

Segmentation by Application:

Small Power Electrolyzer

Megawatt Electrolyzer

This report also splits the market 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

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its

market penetration.

Johnson Matthey

GORE

Advent Technologies

Chromis Technologies

Ballard

Suzhou Hydrogine Power Technology

Shanghai Juna

Anhui Shengshui

WUT HyPower

SinoHykey Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global PEM Electrolyzer Membrane Electrode Assembly market?

What factors are driving PEM Electrolyzer Membrane Electrode Assembly market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do PEM Electrolyzer Membrane Electrode Assembly market opportunities vary by end market size?

How does PEM Electrolyzer Membrane Electrode Assembly break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

2.1.1 Global PEM Electrolyzer Membrane Electrode Assembly Annual Sales 2021-2032

2.1.2 World Current & Future Analysis for PEM Electrolyzer Membrane Electrode Assembly by Geographic Region, 2021, 2025 & 2032

2.1.3 World Current & Future Analysis for PEM Electrolyzer Membrane Electrode Assembly by Country/Region, 2021, 2025 & 2032

2.2 PEM Electrolyzer Membrane Electrode Assembly Segment by Type

2.2.1 Hot-Press Approach Membrane Electrode

2.2.2 CCM 3-in-1 Membrane Electrode

2.2.3 Ordering Membrane Electrode

2.2.4 PEM Electrolyzer Membrane Electrode Assembly Sales by Type

2.2.4.1 Global PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Type (2021-2026)

2.2.4.2 Global PEM Electrolyzer Membrane Electrode Assembly Revenue and Market Share by Type (2021-2026)

2.2.4.3 Global PEM Electrolyzer Membrane Electrode Assembly Sale Price by Type (2021-2026)

2.3 PEM Electrolyzer Membrane Electrode Assembly Segment by Application

2.3.1 Small Power Electrolyzer

2.3.2 Megawatt Electrolyzer

2.3.3 PEM Electrolyzer Membrane Electrode Assembly Sales by Application

2.3.3.1 Global PEM Electrolyzer Membrane Electrode Assembly Sale Market Share by Application (2021-2026)

2.3.3.2 Global PEM Electrolyzer Membrane Electrode Assembly Revenue and Market Share by Application (2021-2026)

2.3.3.3 Global PEM Electrolyzer Membrane Electrode Assembly Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global PEM Electrolyzer Membrane Electrode Assembly Breakdown Data by Company

3.1.1 Global PEM Electrolyzer Membrane Electrode Assembly Annual Sales by Company (2021-2026)

3.1.2 Global PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Company (2021-2026)

3.2 Global PEM Electrolyzer Membrane Electrode Assembly Annual Revenue by Company (2021-2026)

3.2.1 Global PEM Electrolyzer Membrane Electrode Assembly Revenue by Company (2021-2026)

3.2.2 Global PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share by Company (2021-2026)

3.3 Global PEM Electrolyzer Membrane Electrode Assembly Sale Price by Company

3.4 Key Manufacturers PEM Electrolyzer Membrane Electrode Assembly Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers PEM Electrolyzer Membrane Electrode Assembly Product Location Distribution

3.4.2 Players PEM Electrolyzer Membrane Electrode Assembly Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PEM ELECTROLYZER MEMBRANE ELECTRODE ASSEMBLY BY GEOGRAPHIC REGION

4.1 World Historic PEM Electrolyzer Membrane Electrode Assembly Market Size by Geographic Region (2021-2026)

4.1.1 Global PEM Electrolyzer Membrane Electrode Assembly Annual Sales by Geographic Region (2021-2026)

4.1.2 Global PEM Electrolyzer Membrane Electrode Assembly Annual Revenue by

Geographic Region (2021-2026)

4.2 World Historic PEM Electrolyzer Membrane Electrode Assembly Market Size by Country/Region (2021-2026)

4.2.1 Global PEM Electrolyzer Membrane Electrode Assembly Annual Sales by Country/Region (2021-2026)

4.2.2 Global PEM Electrolyzer Membrane Electrode Assembly Annual Revenue by Country/Region (2021-2026)

4.3 Americas PEM Electrolyzer Membrane Electrode Assembly Sales Growth

4.4 APAC PEM Electrolyzer Membrane Electrode Assembly Sales Growth

4.5 Europe PEM Electrolyzer Membrane Electrode Assembly Sales Growth

4.6 Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Sales Growth

5 AMERICAS

5.1 Americas PEM Electrolyzer Membrane Electrode Assembly Sales by Country

5.1.1 Americas PEM Electrolyzer Membrane Electrode Assembly Sales by Country (2021-2026)

5.1.2 Americas PEM Electrolyzer Membrane Electrode Assembly Revenue by Country (2021-2026)

5.2 Americas PEM Electrolyzer Membrane Electrode Assembly Sales by Type (2021-2026)

5.3 Americas PEM Electrolyzer Membrane Electrode Assembly Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC PEM Electrolyzer Membrane Electrode Assembly Sales by Region

6.1.1 APAC PEM Electrolyzer Membrane Electrode Assembly Sales by Region (2021-2026)

6.1.2 APAC PEM Electrolyzer Membrane Electrode Assembly Revenue by Region (2021-2026)

6.2 APAC PEM Electrolyzer Membrane Electrode Assembly Sales by Type (2021-2026)

6.3 APAC PEM Electrolyzer Membrane Electrode Assembly Sales by Application (2021-2026)

- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe PEM Electrolyzer Membrane Electrode Assembly by Country
 - 7.1.1 Europe PEM Electrolyzer Membrane Electrode Assembly Sales by Country (2021-2026)
 - 7.1.2 Europe PEM Electrolyzer Membrane Electrode Assembly Revenue by Country (2021-2026)
- 7.2 Europe PEM Electrolyzer Membrane Electrode Assembly Sales by Type (2021-2026)
- 7.3 Europe PEM Electrolyzer Membrane Electrode Assembly Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly by Country
 - 8.1.1 Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Revenue by Country (2021-2026)
- 8.2 Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Sales by Type (2021-2026)
- 8.3 Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of PEM Electrolyzer Membrane Electrode Assembly

10.3 Manufacturing Process Analysis of PEM Electrolyzer Membrane Electrode Assembly

10.4 Industry Chain Structure of PEM Electrolyzer Membrane Electrode Assembly

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 PEM Electrolyzer Membrane Electrode Assembly Distributors

11.3 PEM Electrolyzer Membrane Electrode Assembly Customer

12 WORLD FORECAST REVIEW FOR PEM ELECTROLYZER MEMBRANE ELECTRODE ASSEMBLY BY GEOGRAPHIC REGION

12.1 Global PEM Electrolyzer Membrane Electrode Assembly Market Size Forecast by Region

12.1.1 Global PEM Electrolyzer Membrane Electrode Assembly Forecast by Region (2027-2032)

12.1.2 Global PEM Electrolyzer Membrane Electrode Assembly Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global PEM Electrolyzer Membrane Electrode Assembly Forecast by Type
(2027-2032)

12.7 Global PEM Electrolyzer Membrane Electrode Assembly Forecast by Application
(2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Johnson Matthey

13.1.1 Johnson Matthey Company Information

13.1.2 Johnson Matthey PEM Electrolyzer Membrane Electrode Assembly Product
Portfolios and Specifications

13.1.3 Johnson Matthey PEM Electrolyzer Membrane Electrode Assembly Sales,
Revenue, Price and Gross Margin (2021-2026)

13.1.4 Johnson Matthey Main Business Overview

13.1.5 Johnson Matthey Latest Developments

13.2 GORE

13.2.1 GORE Company Information

13.2.2 GORE PEM Electrolyzer Membrane Electrode Assembly Product Portfolios and
Specifications

13.2.3 GORE PEM Electrolyzer Membrane Electrode Assembly Sales, Revenue, Price
and Gross Margin (2021-2026)

13.2.4 GORE Main Business Overview

13.2.5 GORE Latest Developments

13.3 Advent Technologies

13.3.1 Advent Technologies Company Information

13.3.2 Advent Technologies PEM Electrolyzer Membrane Electrode Assembly Product
Portfolios and Specifications

13.3.3 Advent Technologies PEM Electrolyzer Membrane Electrode Assembly Sales,
Revenue, Price and Gross Margin (2021-2026)

13.3.4 Advent Technologies Main Business Overview

13.3.5 Advent Technologies Latest Developments

13.4 Chromis Technologies

13.4.1 Chromis Technologies Company Information

13.4.2 Chromis Technologies PEM Electrolyzer Membrane Electrode Assembly
Product Portfolios and Specifications

13.4.3 Chromis Technologies PEM Electrolyzer Membrane Electrode Assembly Sales,
Revenue, Price and Gross Margin (2021-2026)

13.4.4 Chromis Technologies Main Business Overview

13.4.5 Chromis Technologies Latest Developments

13.5 Ballard

13.5.1 Ballard Company Information

13.5.2 Ballard PEM Electrolyzer Membrane Electrode Assembly Product Portfolios and Specifications

13.5.3 Ballard PEM Electrolyzer Membrane Electrode Assembly Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 Ballard Main Business Overview

13.5.5 Ballard Latest Developments

13.6 Suzhou Hydrogine Power Technology

13.6.1 Suzhou Hydrogine Power Technology Company Information

13.6.2 Suzhou Hydrogine Power Technology PEM Electrolyzer Membrane Electrode Assembly Product Portfolios and Specifications

13.6.3 Suzhou Hydrogine Power Technology PEM Electrolyzer Membrane Electrode Assembly Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Suzhou Hydrogine Power Technology Main Business Overview

13.6.5 Suzhou Hydrogine Power Technology Latest Developments

13.7 Shanghai Juna

13.7.1 Shanghai Juna Company Information

13.7.2 Shanghai Juna PEM Electrolyzer Membrane Electrode Assembly Product Portfolios and Specifications

13.7.3 Shanghai Juna PEM Electrolyzer Membrane Electrode Assembly Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Shanghai Juna Main Business Overview

13.7.5 Shanghai Juna Latest Developments

13.8 Anhui Shengshui

13.8.1 Anhui Shengshui Company Information

13.8.2 Anhui Shengshui PEM Electrolyzer Membrane Electrode Assembly Product Portfolios and Specifications

13.8.3 Anhui Shengshui PEM Electrolyzer Membrane Electrode Assembly Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Anhui Shengshui Main Business Overview

13.8.5 Anhui Shengshui Latest Developments

13.9 WUT HyPower

13.9.1 WUT HyPower Company Information

13.9.2 WUT HyPower PEM Electrolyzer Membrane Electrode Assembly Product Portfolios and Specifications

13.9.3 WUT HyPower PEM Electrolyzer Membrane Electrode Assembly Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 WUT HyPower Main Business Overview

13.9.5 WUT HyPower Latest Developments

13.10 SinoHykey Technology

13.10.1 SinoHykey Technology Company Information

13.10.2 SinoHykey Technology PEM Electrolyzer Membrane Electrode Assembly
Product Portfolios and Specifications

13.10.3 SinoHykey Technology PEM Electrolyzer Membrane Electrode Assembly
Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 SinoHykey Technology Main Business Overview

13.10.5 SinoHykey Technology Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. PEM Electrolyzer Membrane Electrode Assembly Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. PEM Electrolyzer Membrane Electrode Assembly Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Hot-Press Approach Membrane Electrode

Table 4. Major Players of CCM 3-in-1 Membrane Electrode

Table 5. Major Players of Ordering Membrane Electrode

Table 6. Global PEM Electrolyzer Membrane Electrode Assembly Sales by Type (2021-2026) & (K Units)

Table 7. Global PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Type (2021-2026)

Table 8. Global PEM Electrolyzer Membrane Electrode Assembly Revenue by Type (2021-2026) & (\$ million)

Table 9. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share by Type (2021-2026)

Table 10. Global PEM Electrolyzer Membrane Electrode Assembly Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Global PEM Electrolyzer Membrane Electrode Assembly Sale by Application (2021-2026) & (K Units)

Table 12. Global PEM Electrolyzer Membrane Electrode Assembly Sale Market Share by Application (2021-2026)

Table 13. Global PEM Electrolyzer Membrane Electrode Assembly Revenue by Application (2021-2026) & (\$ million)

Table 14. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share by Application (2021-2026)

Table 15. Global PEM Electrolyzer Membrane Electrode Assembly Sale Price by Application (2021-2026) & (US\$/Unit)

Table 16. Global PEM Electrolyzer Membrane Electrode Assembly Sales by Company (2021-2026) & (K Units)

Table 17. Global PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Company (2021-2026)

Table 18. Global PEM Electrolyzer Membrane Electrode Assembly Revenue by Company (2021-2026) & (\$ millions)

Table 19. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share by Company (2021-2026)

Table 20. Global PEM Electrolyzer Membrane Electrode Assembly Sale Price by Company (2021-2026) & (US\$/Unit)

Table 21. Key Manufacturers PEM Electrolyzer Membrane Electrode Assembly Producing Area Distribution and Sales Area

Table 22. Players PEM Electrolyzer Membrane Electrode Assembly Products Offered

Table 23. PEM Electrolyzer Membrane Electrode Assembly Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global PEM Electrolyzer Membrane Electrode Assembly Sales by Geographic Region (2021-2026) & (K Units)

Table 27. Global PEM Electrolyzer Membrane Electrode Assembly Sales Market Share Geographic Region (2021-2026)

Table 28. Global PEM Electrolyzer Membrane Electrode Assembly Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 29. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share by Geographic Region (2021-2026)

Table 30. Global PEM Electrolyzer Membrane Electrode Assembly Sales by Country/Region (2021-2026) & (K Units)

Table 31. Global PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Country/Region (2021-2026)

Table 32. Global PEM Electrolyzer Membrane Electrode Assembly Revenue by Country/Region (2021-2026) & (\$ millions)

Table 33. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share by Country/Region (2021-2026)

Table 34. Americas PEM Electrolyzer Membrane Electrode Assembly Sales by Country (2021-2026) & (K Units)

Table 35. Americas PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Country (2021-2026)

Table 36. Americas PEM Electrolyzer Membrane Electrode Assembly Revenue by Country (2021-2026) & (\$ millions)

Table 37. Americas PEM Electrolyzer Membrane Electrode Assembly Sales by Type (2021-2026) & (K Units)

Table 38. Americas PEM Electrolyzer Membrane Electrode Assembly Sales by Application (2021-2026) & (K Units)

Table 39. APAC PEM Electrolyzer Membrane Electrode Assembly Sales by Region (2021-2026) & (K Units)

Table 40. APAC PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Region (2021-2026)

Table 41. APAC PEM Electrolyzer Membrane Electrode Assembly Revenue by Region (2021-2026) & (\$ millions)

Table 42. APAC PEM Electrolyzer Membrane Electrode Assembly Sales by Type (2021-2026) & (K Units)

Table 43. APAC PEM Electrolyzer Membrane Electrode Assembly Sales by Application (2021-2026) & (K Units)

Table 44. Europe PEM Electrolyzer Membrane Electrode Assembly Sales by Country (2021-2026) & (K Units)

Table 45. Europe PEM Electrolyzer Membrane Electrode Assembly Revenue by Country (2021-2026) & (\$ millions)

Table 46. Europe PEM Electrolyzer Membrane Electrode Assembly Sales by Type (2021-2026) & (K Units)

Table 47. Europe PEM Electrolyzer Membrane Electrode Assembly Sales by Application (2021-2026) & (K Units)

Table 48. Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Sales by Country (2021-2026) & (K Units)

Table 49. Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share by Country (2021-2026)

Table 50. Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Sales by Type (2021-2026) & (K Units)

Table 51. Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Sales by Application (2021-2026) & (K Units)

Table 52. Key Market Drivers & Growth Opportunities of PEM Electrolyzer Membrane Electrode Assembly

Table 53. Key Market Challenges & Risks of PEM Electrolyzer Membrane Electrode Assembly

Table 54. Key Industry Trends of PEM Electrolyzer Membrane Electrode Assembly

Table 55. PEM Electrolyzer Membrane Electrode Assembly Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. PEM Electrolyzer Membrane Electrode Assembly Distributors List

Table 58. PEM Electrolyzer Membrane Electrode Assembly Customer List

Table 59. Global PEM Electrolyzer Membrane Electrode Assembly Sales Forecast by Region (2027-2032) & (K Units)

Table 60. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 61. Americas PEM Electrolyzer Membrane Electrode Assembly Sales Forecast by Country (2027-2032) & (K Units)

Table 62. Americas PEM Electrolyzer Membrane Electrode Assembly Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 63. APAC PEM Electrolyzer Membrane Electrode Assembly Sales Forecast by Region (2027-2032) & (K Units)

Table 64. APAC PEM Electrolyzer Membrane Electrode Assembly Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 65. Europe PEM Electrolyzer Membrane Electrode Assembly Sales Forecast by Country (2027-2032) & (K Units)

Table 66. Europe PEM Electrolyzer Membrane Electrode Assembly Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 67. Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Sales Forecast by Country (2027-2032) & (K Units)

Table 68. Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 69. Global PEM Electrolyzer Membrane Electrode Assembly Sales Forecast by Type (2027-2032) & (K Units)

Table 70. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 71. Global PEM Electrolyzer Membrane Electrode Assembly Sales Forecast by Application (2027-2032) & (K Units)

Table 72. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 73. Johnson Matthey Basic Information, PEM Electrolyzer Membrane Electrode Assembly Manufacturing Base, Sales Area and Its Competitors

Table 74. Johnson Matthey PEM Electrolyzer Membrane Electrode Assembly Product Portfolios and Specifications

Table 75. Johnson Matthey PEM Electrolyzer Membrane Electrode Assembly Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 76. Johnson Matthey Main Business

Table 77. Johnson Matthey Latest Developments

Table 78. GORE Basic Information, PEM Electrolyzer Membrane Electrode Assembly Manufacturing Base, Sales Area and Its Competitors

Table 79. GORE PEM Electrolyzer Membrane Electrode Assembly Product Portfolios and Specifications

Table 80. GORE PEM Electrolyzer Membrane Electrode Assembly Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 81. GORE Main Business

Table 82. GORE Latest Developments

Table 83. Advent Technologies Basic Information, PEM Electrolyzer Membrane Electrode Assembly Manufacturing Base, Sales Area and Its Competitors

Table 84. Advent Technologies PEM Electrolyzer Membrane Electrode Assembly

Product Portfolios and Specifications

Table 85. Advent Technologies PEM Electrolyzer Membrane Electrode Assembly Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 86. Advent Technologies Main Business

Table 87. Advent Technologies Latest Developments

Table 88. Chromis Technologies Basic Information, PEM Electrolyzer Membrane Electrode Assembly Manufacturing Base, Sales Area and Its Competitors

Table 89. Chromis Technologies PEM Electrolyzer Membrane Electrode Assembly Product Portfolios and Specifications

Table 90. Chromis Technologies PEM Electrolyzer Membrane Electrode Assembly Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 91. Chromis Technologies Main Business

Table 92. Chromis Technologies Latest Developments

Table 93. Ballard Basic Information, PEM Electrolyzer Membrane Electrode Assembly Manufacturing Base, Sales Area and Its Competitors

Table 94. Ballard PEM Electrolyzer Membrane Electrode Assembly Product Portfolios and Specifications

Table 95. Ballard PEM Electrolyzer Membrane Electrode Assembly Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 96. Ballard Main Business

Table 97. Ballard Latest Developments

Table 98. Suzhou Hydrogene Power Technology Basic Information, PEM Electrolyzer Membrane Electrode Assembly Manufacturing Base, Sales Area and Its Competitors

Table 99. Suzhou Hydrogene Power Technology PEM Electrolyzer Membrane Electrode Assembly Product Portfolios and Specifications

Table 100. Suzhou Hydrogene Power Technology PEM Electrolyzer Membrane Electrode Assembly Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 101. Suzhou Hydrogene Power Technology Main Business

Table 102. Suzhou Hydrogene Power Technology Latest Developments

Table 103. Shanghai Juna Basic Information, PEM Electrolyzer Membrane Electrode Assembly Manufacturing Base, Sales Area and Its Competitors

Table 104. Shanghai Juna PEM Electrolyzer Membrane Electrode Assembly Product Portfolios and Specifications

Table 105. Shanghai Juna PEM Electrolyzer Membrane Electrode Assembly Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 106. Shanghai Juna Main Business

Table 107. Shanghai Juna Latest Developments

Table 108. Anhui Shengshui Basic Information, PEM Electrolyzer Membrane Electrode

Assembly Manufacturing Base, Sales Area and Its Competitors

Table 109. Anhui Shengshui PEM Electrolyzer Membrane Electrode Assembly Product Portfolios and Specifications

Table 110. Anhui Shengshui PEM Electrolyzer Membrane Electrode Assembly Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 111. Anhui Shengshui Main Business

Table 112. Anhui Shengshui Latest Developments

Table 113. WUT HyPower Basic Information, PEM Electrolyzer Membrane Electrode Assembly Manufacturing Base, Sales Area and Its Competitors

Table 114. WUT HyPower PEM Electrolyzer Membrane Electrode Assembly Product Portfolios and Specifications

Table 115. WUT HyPower PEM Electrolyzer Membrane Electrode Assembly Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 116. WUT HyPower Main Business

Table 117. WUT HyPower Latest Developments

Table 118. SinoHykey Technology Basic Information, PEM Electrolyzer Membrane Electrode Assembly Manufacturing Base, Sales Area and Its Competitors

Table 119. SinoHykey Technology PEM Electrolyzer Membrane Electrode Assembly Product Portfolios and Specifications

Table 120. SinoHykey Technology PEM Electrolyzer Membrane Electrode Assembly Sales (K Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 121. SinoHykey Technology Main Business

Table 122. SinoHykey Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of PEM Electrolyzer Membrane Electrode Assembly
- Figure 2. PEM Electrolyzer Membrane Electrode Assembly Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global PEM Electrolyzer Membrane Electrode Assembly Sales Growth Rate 2021-2032 (K Units)
- Figure 7. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. PEM Electrolyzer Membrane Electrode Assembly Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Country/Region (2025)
- Figure 10. PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Hot-Press Approach Membrane Electrode
- Figure 12. Product Picture of CCM 3-in-1 Membrane Electrode
- Figure 13. Product Picture of Ordering Membrane Electrode
- Figure 14. Global PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Type in 2026
- Figure 15. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share by Type (2021-2026)
- Figure 16. PEM Electrolyzer Membrane Electrode Assembly Consumed in Small Power Electrolyzer
- Figure 17. Global PEM Electrolyzer Membrane Electrode Assembly Market: Small Power Electrolyzer (2021-2026) & (K Units)
- Figure 18. PEM Electrolyzer Membrane Electrode Assembly Consumed in Megawatt Electrolyzer
- Figure 19. Global PEM Electrolyzer Membrane Electrode Assembly Market: Megawatt Electrolyzer (2021-2026) & (K Units)
- Figure 20. Global PEM Electrolyzer Membrane Electrode Assembly Sale Market Share by Application (2025)
- Figure 21. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share by Application in 2026
- Figure 22. PEM Electrolyzer Membrane Electrode Assembly Sales by Company in 2026

(K Units)

Figure 23. Global PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Company in 2026

Figure 24. PEM Electrolyzer Membrane Electrode Assembly Revenue by Company in 2026 (\$ millions)

Figure 25. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share by Company in 2026

Figure 26. Global PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Geographic Region (2021-2026)

Figure 27. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share by Geographic Region in 2026

Figure 28. Americas PEM Electrolyzer Membrane Electrode Assembly Sales 2021-2026 (K Units)

Figure 29. Americas PEM Electrolyzer Membrane Electrode Assembly Revenue 2021-2026 (\$ millions)

Figure 30. APAC PEM Electrolyzer Membrane Electrode Assembly Sales 2021-2026 (K Units)

Figure 31. APAC PEM Electrolyzer Membrane Electrode Assembly Revenue 2021-2026 (\$ millions)

Figure 32. Europe PEM Electrolyzer Membrane Electrode Assembly Sales 2021-2026 (K Units)

Figure 33. Europe PEM Electrolyzer Membrane Electrode Assembly Revenue 2021-2026 (\$ millions)

Figure 34. Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Sales 2021-2026 (K Units)

Figure 35. Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Revenue 2021-2026 (\$ millions)

Figure 36. Americas PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Country in 2026

Figure 37. Americas PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share by Country (2021-2026)

Figure 38. Americas PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Type (2021-2026)

Figure 39. Americas PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Application (2021-2026)

Figure 40. United States PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 41. Canada PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 42. Mexico PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 43. Brazil PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 44. APAC PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Region in 2026

Figure 45. APAC PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share by Region (2021-2026)

Figure 46. APAC PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Type (2021-2026)

Figure 47. APAC PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Application (2021-2026)

Figure 48. China PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 49. Japan PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 50. South Korea PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 51. Southeast Asia PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 52. India PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 53. Australia PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 54. China Taiwan PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 55. Europe PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Country in 2026

Figure 56. Europe PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share by Country (2021-2026)

Figure 57. Europe PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Type (2021-2026)

Figure 58. Europe PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Application (2021-2026)

Figure 59. Germany PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 60. France PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 61. UK PEM Electrolyzer Membrane Electrode Assembly Revenue Growth

2021-2026 (\$ millions)

Figure 62. Italy PEM Electrolyzer Membrane Electrode Assembly Revenue Growth

2021-2026 (\$ millions)

Figure 63. Russia PEM Electrolyzer Membrane Electrode Assembly Revenue Growth

2021-2026 (\$ millions)

Figure 64. Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Country (2021-2026)

Figure 65. Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Type (2021-2026)

Figure 66. Middle East & Africa PEM Electrolyzer Membrane Electrode Assembly Sales Market Share by Application (2021-2026)

Figure 67. Egypt PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 68. South Africa PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 69. Israel PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 70. Turkey PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 71. GCC Countries PEM Electrolyzer Membrane Electrode Assembly Revenue Growth 2021-2026 (\$ millions)

Figure 72. Manufacturing Cost Structure Analysis of PEM Electrolyzer Membrane Electrode Assembly in 2026

Figure 73. Manufacturing Process Analysis of PEM Electrolyzer Membrane Electrode Assembly

Figure 74. Industry Chain Structure of PEM Electrolyzer Membrane Electrode Assembly

Figure 75. Channels of Distribution

Figure 76. Global PEM Electrolyzer Membrane Electrode Assembly Sales Market Forecast by Region (2027-2032)

Figure 77. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share Forecast by Region (2027-2032)

Figure 78. Global PEM Electrolyzer Membrane Electrode Assembly Sales Market Share Forecast by Type (2027-2032)

Figure 79. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share Forecast by Type (2027-2032)

Figure 80. Global PEM Electrolyzer Membrane Electrode Assembly Sales Market Share Forecast by Application (2027-2032)

Figure 81. Global PEM Electrolyzer Membrane Electrode Assembly Revenue Market Share Forecast by Application (2027-2032)

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