

Global PEM Hydrogen Electrolyzer Market Growth 2026-2032

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Abstracts

The global PEM Hydrogen Electrolyzer market size is predicted to grow from US\$ 321 million in 2025 to US\$ 4632 million in 2032; it is expected to grow at a CAGR of 46.7% from 2026 to 2032.

In 2025, global PEM Hydrogen Electrolyzer production reached approximately 6,566 units with an average global market price of around k US\$50 per unit. Single-line annual production capacity averages 200 units with a gross margin of approximately 25-30%. The upstream core of the PEM electrolyzer for hydrogen production is concentrated in the high-performance materials sector, encompassing the research, development, and manufacturing of specialized materials such as noble metal catalysts (platinum and iridium), perfluorosulfonic acid proton exchange membranes, titanium fiber diffusion layers, and precision titanium bipolar plates. The midstream primarily involves stack assembly and system integration. In downstream applications, hydrogen production from wind and solar accounts for approximately 45%, chemical and oil refining industries for 25%, hydrogen refueling stations for 15%, metallurgy and iron and steel for 8%, while power electronics and other sectors collectively account for 7%. Current demand is primarily driven by global carbon neutrality policies and the grid parity of renewable energy, focusing on high-pressure, high-efficiency electrolysis systems capable of matching the fluctuating characteristics of wind and solar power, achieving rapid start-stop and wide-load regulation, thereby supporting continuous and stable green hydrogen supply in industrial sectors. The core commercial opportunity lies in overcoming the mass production technological barriers of low-iridium catalysts and ultra-thin composite proton exchange membranes to reduce material costs, while developing intelligent coordination control systems and combined heat and power solutions adaptable to high-proportion intermittent power sources. Emphasis is placed on establishing commercially viable demonstration projects in scenarios such as green

chemical synthesis, hydrogen-based iron and steel smelting, and distributed energy networks in regions abundant in renewable energy resources.

The PEM electrolyzer utilizes a solid polymer electrolyte membrane that selectively conducts protons to directly split water into high-purity hydrogen and oxygen through an electrochemical reaction. Its compact, zero-gap cell design enables operation at high current densities and under dynamic load conditions, making it particularly suited to convert intermittent renewable electricity into hydrogen with rapid response and high efficiency. By operating at elevated pressures and minimizing gas crossover, the system reduces downstream compression needs and ensures gas purity, while advanced catalyst layers and durable materials enhance longevity under variable power input. This technology bridges electrical energy from renewables and chemical energy carriers, offering scalable, on-demand hydrogen production with minimal ancillary balancing components.

The PEM hydrogen electrolyzer industry is transitioning from technological demonstration to large-scale expansion, with its development trajectory clearly reflected across several dimensions. Technologically, breakthroughs in low-iridium catalysts, composite proton exchange membranes, and high-pressure integrated systems are driving electrolysis efficiency toward levels exceeding 80%, while extending equipment lifespans beyond a decade. Material costs continue to decline due to accelerating domestic production. In terms of application scenarios, PEM electrolyzers serve not only as 'balancers' for intermittent renewable energy sources like wind and solar but also as core enablers for deep industrial decarbonization in areas such as hydrogen-based steelmaking and green ammonia/methanol synthesis, particularly demonstrating flexibility in off-grid hydrogen production and industrial park-level hydrogen microgrids. Commercially, the industry is shifting from equipment sales to operational services, with financial instruments and carbon constraint policies further accelerating project implementation. The industry's future growth momentum ultimately depends on the pace of declining green electricity costs, the development of cross-regional hydrogen transportation infrastructure, and the synergistic cost-reduction capabilities across the entire value chain—from materials to integrated systems.

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

Electrolyzer industry.

This Insight Report provides a comprehensive analysis of the global PEM Hydrogen Electrolyzer 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 Hydrogen Electrolyzer portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PEM Hydrogen Electrolyzer market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PEM Hydrogen Electrolyzer 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 Hydrogen Electrolyzer.

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

Segmentation by Type:

Small Type

Medium Type

Large Type

Segmentation by Form:

Modular Platform

Containerized Platform

Segmentation by Design:

Plug & Play

Others

Segmentation by Application:

Power to Gas

Chemical & Refining

Metallurgy & Steel

Hydrogen Refueling Station

Power

Electronics & Semiconductor

Others

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.

Proton Onsite (Nel Hydrogen)

Accelera

Cummins

Elogen

ITM Power

IMI

H-TEC SYSTEMS

Toshiba

Kobelco Eco-Solutions

Siemens

Kyros Hydrogen Solutions

Hystar

Plug Power

Quest One

Elchemtech

H2B2

Beijing Sany Heavy Industry

Guangdong Cawolo Hydrogen Technology

Shanghai Kinghet

Guangdong Qingneng Ruilong New Energy Technology

Changchun Green Drive Hydrogen Technology

Shandong Saikesaisi Hydrogen Energy

Huizhou EVE Hydrogen Energy

Hefei Sungrow

Amoy Island Hydrogen (Xiamen) Technology

BriHyNergy (Shenzhen)

718th Research Institute of CSIC

Key Questions Addressed in this Report

What is the 10-year outlook for the global PEM Hydrogen Electrolyzer market?

What factors are driving PEM Hydrogen Electrolyzer market growth, globally and by region?

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

How do PEM Hydrogen Electrolyzer market opportunities vary by end market size?

How does PEM Hydrogen Electrolyzer 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 Hydrogen Electrolyzer Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for PEM Hydrogen Electrolyzer by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for PEM Hydrogen Electrolyzer by Country/Region, 2021, 2025 & 2032

2.2 PEM Hydrogen Electrolyzer Segment by Type

- 2.2.1 Small Type
- 2.2.2 Medium Type
- 2.2.3 Large Type
- 2.2.4 PEM Hydrogen Electrolyzer Sales by Type
 - 2.2.4.1 Global PEM Hydrogen Electrolyzer Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global PEM Hydrogen Electrolyzer Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global PEM Hydrogen Electrolyzer Sale Price by Type (2021-2026)

2.3 PEM Hydrogen Electrolyzer Segment by Form

- 2.3.1 Modular Platform
- 2.3.2 Containerized Platform
- 2.3.3 PEM Hydrogen Electrolyzer Sales by Form
 - 2.3.3.1 Global PEM Hydrogen Electrolyzer Sales Market Share by Form (2021-2026)
 - 2.3.3.2 Global PEM Hydrogen Electrolyzer Revenue and Market Share by Form (2021-2026)
 - 2.3.3.3 Global PEM Hydrogen Electrolyzer Sale Price by Form (2021-2026)

2.4 PEM Hydrogen Electrolyzer Segment by Design

2.4.1 Plug & Play

2.4.2 Others

2.4.3 PEM Hydrogen Electrolyzer Sales by Design

2.4.3.1 Global PEM Hydrogen Electrolyzer Sales Market Share by Design
(2021-2026)

2.4.3.2 Global PEM Hydrogen Electrolyzer Revenue and Market Share by Design
(2021-2026)

2.4.3.3 Global PEM Hydrogen Electrolyzer Sale Price by Design (2021-2026)

2.5 PEM Hydrogen Electrolyzer Segment by Application

2.5.1 Power to Gas

2.5.2 Chemical & Refining

2.5.3 Metallurgy & Steel

2.5.4 Hydrogen Refueling Station

2.5.5 Power

2.5.6 Electronics & Semiconductor

2.5.7 Others

2.5.8 PEM Hydrogen Electrolyzer Sales by Application

2.5.8.1 Global PEM Hydrogen Electrolyzer Sale Market Share by Application
(2021-2026)

2.5.8.2 Global PEM Hydrogen Electrolyzer Revenue and Market Share by Application
(2021-2026)

2.5.8.3 Global PEM Hydrogen Electrolyzer Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global PEM Hydrogen Electrolyzer Breakdown Data by Company

3.1.1 Global PEM Hydrogen Electrolyzer Annual Sales by Company (2021-2026)

3.1.2 Global PEM Hydrogen Electrolyzer Sales Market Share by Company
(2021-2026)

3.2 Global PEM Hydrogen Electrolyzer Annual Revenue by Company (2021-2026)

3.2.1 Global PEM Hydrogen Electrolyzer Revenue by Company (2021-2026)

3.2.2 Global PEM Hydrogen Electrolyzer Revenue Market Share by Company
(2021-2026)

3.3 Global PEM Hydrogen Electrolyzer Sale Price by Company

3.4 Key Manufacturers PEM Hydrogen Electrolyzer Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers PEM Hydrogen Electrolyzer Product Location Distribution

3.4.2 Players PEM Hydrogen Electrolyzer 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 HYDROGEN ELECTROLYZER BY GEOGRAPHIC REGION

- 4.1 World Historic PEM Hydrogen Electrolyzer Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global PEM Hydrogen Electrolyzer Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global PEM Hydrogen Electrolyzer Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic PEM Hydrogen Electrolyzer Market Size by Country/Region (2021-2026)
 - 4.2.1 Global PEM Hydrogen Electrolyzer Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global PEM Hydrogen Electrolyzer Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas PEM Hydrogen Electrolyzer Sales Growth
- 4.4 APAC PEM Hydrogen Electrolyzer Sales Growth
- 4.5 Europe PEM Hydrogen Electrolyzer Sales Growth
- 4.6 Middle East & Africa PEM Hydrogen Electrolyzer Sales Growth

5 AMERICAS

- 5.1 Americas PEM Hydrogen Electrolyzer Sales by Country
 - 5.1.1 Americas PEM Hydrogen Electrolyzer Sales by Country (2021-2026)
 - 5.1.2 Americas PEM Hydrogen Electrolyzer Revenue by Country (2021-2026)
- 5.2 Americas PEM Hydrogen Electrolyzer Sales by Type (2021-2026)
- 5.3 Americas PEM Hydrogen Electrolyzer Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC PEM Hydrogen Electrolyzer Sales by Region

- 6.1.1 APAC PEM Hydrogen Electrolyzer Sales by Region (2021-2026)
- 6.1.2 APAC PEM Hydrogen Electrolyzer Revenue by Region (2021-2026)
- 6.2 APAC PEM Hydrogen Electrolyzer Sales by Type (2021-2026)
- 6.3 APAC PEM Hydrogen Electrolyzer 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 Hydrogen Electrolyzer by Country
 - 7.1.1 Europe PEM Hydrogen Electrolyzer Sales by Country (2021-2026)
 - 7.1.2 Europe PEM Hydrogen Electrolyzer Revenue by Country (2021-2026)
- 7.2 Europe PEM Hydrogen Electrolyzer Sales by Type (2021-2026)
- 7.3 Europe PEM Hydrogen Electrolyzer 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 Hydrogen Electrolyzer by Country
 - 8.1.1 Middle East & Africa PEM Hydrogen Electrolyzer Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa PEM Hydrogen Electrolyzer Revenue by Country (2021-2026)
- 8.2 Middle East & Africa PEM Hydrogen Electrolyzer Sales by Type (2021-2026)
- 8.3 Middle East & Africa PEM Hydrogen Electrolyzer 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 Hydrogen Electrolyzer
- 10.3 Manufacturing Process Analysis of PEM Hydrogen Electrolyzer
- 10.4 Industry Chain Structure of PEM Hydrogen Electrolyzer

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 PEM Hydrogen Electrolyzer Distributors
- 11.3 PEM Hydrogen Electrolyzer Customer

12 WORLD FORECAST REVIEW FOR PEM HYDROGEN ELECTROLYZER BY GEOGRAPHIC REGION

- 12.1 Global PEM Hydrogen Electrolyzer Market Size Forecast by Region
 - 12.1.1 Global PEM Hydrogen Electrolyzer Forecast by Region (2027-2032)
 - 12.1.2 Global PEM Hydrogen Electrolyzer 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 Hydrogen Electrolyzer Forecast by Type (2027-2032)
- 12.7 Global PEM Hydrogen Electrolyzer Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Proton Onsite (Nel Hydrogen)
 - 13.1.1 Proton Onsite (Nel Hydrogen) Company Information

13.1.2 Proton Onsite (Nel Hydrogen) PEM Hydrogen Electrolyzer Product Portfolios and Specifications

13.1.3 Proton Onsite (Nel Hydrogen) PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Proton Onsite (Nel Hydrogen) Main Business Overview

13.1.5 Proton Onsite (Nel Hydrogen) Latest Developments

13.2 Accelera

13.2.1 Accelera Company Information

13.2.2 Accelera PEM Hydrogen Electrolyzer Product Portfolios and Specifications

13.2.3 Accelera PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Accelera Main Business Overview

13.2.5 Accelera Latest Developments

13.3 Cummins

13.3.1 Cummins Company Information

13.3.2 Cummins PEM Hydrogen Electrolyzer Product Portfolios and Specifications

13.3.3 Cummins PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Cummins Main Business Overview

13.3.5 Cummins Latest Developments

13.4 Elogen

13.4.1 Elogen Company Information

13.4.2 Elogen PEM Hydrogen Electrolyzer Product Portfolios and Specifications

13.4.3 Elogen PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Elogen Main Business Overview

13.4.5 Elogen Latest Developments

13.5 ITM Power

13.5.1 ITM Power Company Information

13.5.2 ITM Power PEM Hydrogen Electrolyzer Product Portfolios and Specifications

13.5.3 ITM Power PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 ITM Power Main Business Overview

13.5.5 ITM Power Latest Developments

13.6 IMI

13.6.1 IMI Company Information

13.6.2 IMI PEM Hydrogen Electrolyzer Product Portfolios and Specifications

13.6.3 IMI PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.6.4 IMI Main Business Overview
- 13.6.5 IMI Latest Developments
- 13.7 H-TEC SYSTEMS
 - 13.7.1 H-TEC SYSTEMS Company Information
 - 13.7.2 H-TEC SYSTEMS PEM Hydrogen Electrolyzer Product Portfolios and Specifications
 - 13.7.3 H-TEC SYSTEMS PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 H-TEC SYSTEMS Main Business Overview
 - 13.7.5 H-TEC SYSTEMS Latest Developments
- 13.8 Toshiba
 - 13.8.1 Toshiba Company Information
 - 13.8.2 Toshiba PEM Hydrogen Electrolyzer Product Portfolios and Specifications
 - 13.8.3 Toshiba PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Toshiba Main Business Overview
 - 13.8.5 Toshiba Latest Developments
- 13.9 Kobelco Eco-Solutions
 - 13.9.1 Kobelco Eco-Solutions Company Information
 - 13.9.2 Kobelco Eco-Solutions PEM Hydrogen Electrolyzer Product Portfolios and Specifications
 - 13.9.3 Kobelco Eco-Solutions PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Kobelco Eco-Solutions Main Business Overview
 - 13.9.5 Kobelco Eco-Solutions Latest Developments
- 13.10 Siemens
 - 13.10.1 Siemens Company Information
 - 13.10.2 Siemens PEM Hydrogen Electrolyzer Product Portfolios and Specifications
 - 13.10.3 Siemens PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Siemens Main Business Overview
 - 13.10.5 Siemens Latest Developments
- 13.11 Kyros Hydrogen Solutions
 - 13.11.1 Kyros Hydrogen Solutions Company Information
 - 13.11.2 Kyros Hydrogen Solutions PEM Hydrogen Electrolyzer Product Portfolios and Specifications
 - 13.11.3 Kyros Hydrogen Solutions PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Kyros Hydrogen Solutions Main Business Overview

- 13.11.5 Kyros Hydrogen Solutions Latest Developments
- 13.12 Hystar
 - 13.12.1 Hystar Company Information
 - 13.12.2 Hystar PEM Hydrogen Electrolyzer Product Portfolios and Specifications
 - 13.12.3 Hystar PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Hystar Main Business Overview
 - 13.12.5 Hystar Latest Developments
- 13.13 Plug Power
 - 13.13.1 Plug Power Company Information
 - 13.13.2 Plug Power PEM Hydrogen Electrolyzer Product Portfolios and Specifications
 - 13.13.3 Plug Power PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Plug Power Main Business Overview
 - 13.13.5 Plug Power Latest Developments
- 13.14 Quest One
 - 13.14.1 Quest One Company Information
 - 13.14.2 Quest One PEM Hydrogen Electrolyzer Product Portfolios and Specifications
 - 13.14.3 Quest One PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.14.4 Quest One Main Business Overview
 - 13.14.5 Quest One Latest Developments
- 13.15 Elchemtech
 - 13.15.1 Elchemtech Company Information
 - 13.15.2 Elchemtech PEM Hydrogen Electrolyzer Product Portfolios and Specifications
 - 13.15.3 Elchemtech PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.15.4 Elchemtech Main Business Overview
 - 13.15.5 Elchemtech Latest Developments
- 13.16 H2B2
 - 13.16.1 H2B2 Company Information
 - 13.16.2 H2B2 PEM Hydrogen Electrolyzer Product Portfolios and Specifications
 - 13.16.3 H2B2 PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.16.4 H2B2 Main Business Overview
 - 13.16.5 H2B2 Latest Developments
- 13.17 Beijing Sany Heavy Industry
 - 13.17.1 Beijing Sany Heavy Industry Company Information
 - 13.17.2 Beijing Sany Heavy Industry PEM Hydrogen Electrolyzer Product Portfolios

and Specifications

13.17.3 Beijing Sany Heavy Industry PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 Beijing Sany Heavy Industry Main Business Overview

13.17.5 Beijing Sany Heavy Industry Latest Developments

13.18 Guangdong Cawolo Hydrogen Technology

13.18.1 Guangdong Cawolo Hydrogen Technology Company Information

13.18.2 Guangdong Cawolo Hydrogen Technology PEM Hydrogen Electrolyzer

Product Portfolios and Specifications

13.18.3 Guangdong Cawolo Hydrogen Technology PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Guangdong Cawolo Hydrogen Technology Main Business Overview

13.18.5 Guangdong Cawolo Hydrogen Technology Latest Developments

13.19 Shanghai Kinghet

13.19.1 Shanghai Kinghet Company Information

13.19.2 Shanghai Kinghet PEM Hydrogen Electrolyzer Product Portfolios and Specifications

13.19.3 Shanghai Kinghet PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)

13.19.4 Shanghai Kinghet Main Business Overview

13.19.5 Shanghai Kinghet Latest Developments

13.20 Guangdong Qingneng Ruilong New Energy Technology

13.20.1 Guangdong Qingneng Ruilong New Energy Technology Company Information

13.20.2 Guangdong Qingneng Ruilong New Energy Technology PEM Hydrogen Electrolyzer Product Portfolios and Specifications

13.20.3 Guangdong Qingneng Ruilong New Energy Technology PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)

13.20.4 Guangdong Qingneng Ruilong New Energy Technology Main Business Overview

13.20.5 Guangdong Qingneng Ruilong New Energy Technology Latest Developments

13.21 Changchun Green Drive Hydrogen Technology

13.21.1 Changchun Green Drive Hydrogen Technology Company Information

13.21.2 Changchun Green Drive Hydrogen Technology PEM Hydrogen Electrolyzer Product Portfolios and Specifications

13.21.3 Changchun Green Drive Hydrogen Technology PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)

13.21.4 Changchun Green Drive Hydrogen Technology Main Business Overview

13.21.5 Changchun Green Drive Hydrogen Technology Latest Developments

13.22 Shandong Saikesaisi Hydrogen Energy

- 13.22.1 Shandong Saikesaisi Hydrogen Energy Company Information
- 13.22.2 Shandong Saikesaisi Hydrogen Energy PEM Hydrogen Electrolyzer Product Portfolios and Specifications
- 13.22.3 Shandong Saikesaisi Hydrogen Energy PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.22.4 Shandong Saikesaisi Hydrogen Energy Main Business Overview
- 13.22.5 Shandong Saikesaisi Hydrogen Energy Latest Developments
- 13.23 Huizhou EVE Hydrogen Energy
 - 13.23.1 Huizhou EVE Hydrogen Energy Company Information
 - 13.23.2 Huizhou EVE Hydrogen Energy PEM Hydrogen Electrolyzer Product Portfolios and Specifications
 - 13.23.3 Huizhou EVE Hydrogen Energy PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.23.4 Huizhou EVE Hydrogen Energy Main Business Overview
 - 13.23.5 Huizhou EVE Hydrogen Energy Latest Developments
- 13.24 Hefei Sungrow
 - 13.24.1 Hefei Sungrow Company Information
 - 13.24.2 Hefei Sungrow PEM Hydrogen Electrolyzer Product Portfolios and Specifications
 - 13.24.3 Hefei Sungrow PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.24.4 Hefei Sungrow Main Business Overview
 - 13.24.5 Hefei Sungrow Latest Developments
- 13.25 Amoy Island Hydrogen (Xiamen) Technology
 - 13.25.1 Amoy Island Hydrogen (Xiamen) Technology Company Information
 - 13.25.2 Amoy Island Hydrogen (Xiamen) Technology PEM Hydrogen Electrolyzer Product Portfolios and Specifications
 - 13.25.3 Amoy Island Hydrogen (Xiamen) Technology PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.25.4 Amoy Island Hydrogen (Xiamen) Technology Main Business Overview
 - 13.25.5 Amoy Island Hydrogen (Xiamen) Technology Latest Developments
- 13.26 BriHyNergy (Shenzhen)
 - 13.26.1 BriHyNergy (Shenzhen) Company Information
 - 13.26.2 BriHyNergy (Shenzhen) PEM Hydrogen Electrolyzer Product Portfolios and Specifications
 - 13.26.3 BriHyNergy (Shenzhen) PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.26.4 BriHyNergy (Shenzhen) Main Business Overview
 - 13.26.5 BriHyNergy (Shenzhen) Latest Developments

13.27 718th Research Institute of CSIC

13.27.1 718th Research Institute of CSIC Company Information

13.27.2 718th Research Institute of CSIC PEM Hydrogen Electrolyzer Product

Portfolios and Specifications

13.27.3 718th Research Institute of CSIC PEM Hydrogen Electrolyzer Sales, Revenue, Price and Gross Margin (2021-2026)

13.27.4 718th Research Institute of CSIC Main Business Overview

13.27.5 718th Research Institute of CSIC Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

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

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

Table 3. Major Players of Small Type

Table 4. Major Players of Medium Type

Table 5. Major Players of Large Type

Table 6. Global PEM Hydrogen Electrolyzer Sales by Type (2021-2026) & (Units)

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

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

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

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

Table 11. Major Players of Modular Platform

Table 12. Major Players of Containerized Platform

Table 13. Global PEM Hydrogen Electrolyzer Sales by Form (2021-2026) & (Units)

Table 14. Global PEM Hydrogen Electrolyzer Sales Market Share by Form (2021-2026)

Table 15. Global PEM Hydrogen Electrolyzer Revenue by Form (2021-2026) & (\$ million)

Table 16. Global PEM Hydrogen Electrolyzer Revenue Market Share by Form (2021-2026)

Table 17. Global PEM Hydrogen Electrolyzer Sale Price by Form (2021-2026) & (K US\$/Unit)

Table 18. Major Players of Plug & Play

Table 19. Major Players of Others

Table 20. Global PEM Hydrogen Electrolyzer Sales by Design (2021-2026) & (Units)

Table 21. Global PEM Hydrogen Electrolyzer Sales Market Share by Design (2021-2026)

Table 22. Global PEM Hydrogen Electrolyzer Revenue by Design (2021-2026) & (\$ million)

Table 23. Global PEM Hydrogen Electrolyzer Revenue Market Share by Design (2021-2026)

Table 24. Global PEM Hydrogen Electrolyzer Sale Price by Design (2021-2026) & (K US\$/Unit)

Table 25. Global PEM Hydrogen Electrolyzer Sale by Application (2021-2026) & (Units)

Table 26. Global PEM Hydrogen Electrolyzer Sale Market Share by Application (2021-2026)

Table 27. Global PEM Hydrogen Electrolyzer Revenue by Application (2021-2026) & (\$ million)

Table 28. Global PEM Hydrogen Electrolyzer Revenue Market Share by Application (2021-2026)

Table 29. Global PEM Hydrogen Electrolyzer Sale Price by Application (2021-2026) & (K US\$/Unit)

Table 30. Global PEM Hydrogen Electrolyzer Sales by Company (2021-2026) & (Units)

Table 31. Global PEM Hydrogen Electrolyzer Sales Market Share by Company (2021-2026)

Table 32. Global PEM Hydrogen Electrolyzer Revenue by Company (2021-2026) & (\$ millions)

Table 33. Global PEM Hydrogen Electrolyzer Revenue Market Share by Company (2021-2026)

Table 34. Global PEM Hydrogen Electrolyzer Sale Price by Company (2021-2026) & (K US\$/Unit)

Table 35. Key Manufacturers PEM Hydrogen Electrolyzer Producing Area Distribution and Sales Area

Table 36. Players PEM Hydrogen Electrolyzer Products Offered

Table 37. PEM Hydrogen Electrolyzer Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 38. New Products and Potential Entrants

Table 39. Market M&A Activity & Strategy

Table 40. Global PEM Hydrogen Electrolyzer Sales by Geographic Region (2021-2026) & (Units)

Table 41. Global PEM Hydrogen Electrolyzer Sales Market Share Geographic Region (2021-2026)

Table 42. Global PEM Hydrogen Electrolyzer Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global PEM Hydrogen Electrolyzer Revenue Market Share by Geographic Region (2021-2026)

Table 44. Global PEM Hydrogen Electrolyzer Sales by Country/Region (2021-2026) & (Units)

Table 45. Global PEM Hydrogen Electrolyzer Sales Market Share by Country/Region (2021-2026)

Table 46. Global PEM Hydrogen Electrolyzer Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global PEM Hydrogen Electrolyzer Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas PEM Hydrogen Electrolyzer Sales by Country (2021-2026) & (Units)

Table 49. Americas PEM Hydrogen Electrolyzer Sales Market Share by Country (2021-2026)

Table 50. Americas PEM Hydrogen Electrolyzer Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas PEM Hydrogen Electrolyzer Sales by Type (2021-2026) & (Units)

Table 52. Americas PEM Hydrogen Electrolyzer Sales by Application (2021-2026) & (Units)

Table 53. APAC PEM Hydrogen Electrolyzer Sales by Region (2021-2026) & (Units)

Table 54. APAC PEM Hydrogen Electrolyzer Sales Market Share by Region (2021-2026)

Table 55. APAC PEM Hydrogen Electrolyzer Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC PEM Hydrogen Electrolyzer Sales by Type (2021-2026) & (Units)

Table 57. APAC PEM Hydrogen Electrolyzer Sales by Application (2021-2026) & (Units)

Table 58. Europe PEM Hydrogen Electrolyzer Sales by Country (2021-2026) & (Units)

Table 59. Europe PEM Hydrogen Electrolyzer Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe PEM Hydrogen Electrolyzer Sales by Type (2021-2026) & (Units)

Table 61. Europe PEM Hydrogen Electrolyzer Sales by Application (2021-2026) & (Units)

Table 62. Middle East & Africa PEM Hydrogen Electrolyzer Sales by Country (2021-2026) & (Units)

Table 63. Middle East & Africa PEM Hydrogen Electrolyzer Revenue Market Share by Country (2021-2026)

Table 64. Middle East & Africa PEM Hydrogen Electrolyzer Sales by Type (2021-2026) & (Units)

Table 65. Middle East & Africa PEM Hydrogen Electrolyzer Sales by Application (2021-2026) & (Units)

Table 66. Key Market Drivers & Growth Opportunities of PEM Hydrogen Electrolyzer

Table 67. Key Market Challenges & Risks of PEM Hydrogen Electrolyzer

Table 68. Key Industry Trends of PEM Hydrogen Electrolyzer

Table 69. PEM Hydrogen Electrolyzer Raw Material

Table 70. Key Suppliers of Raw Materials

Table 71. PEM Hydrogen Electrolyzer Distributors List

Table 72. PEM Hydrogen Electrolyzer Customer List

Table 73. Global PEM Hydrogen Electrolyzer Sales Forecast by Region (2027-2032) &

(Units)

Table 74. Global PEM Hydrogen Electrolyzer Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 75. Americas PEM Hydrogen Electrolyzer Sales Forecast by Country (2027-2032) & (Units)

Table 76. Americas PEM Hydrogen Electrolyzer Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 77. APAC PEM Hydrogen Electrolyzer Sales Forecast by Region (2027-2032) & (Units)

Table 78. APAC PEM Hydrogen Electrolyzer Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 79. Europe PEM Hydrogen Electrolyzer Sales Forecast by Country (2027-2032) & (Units)

Table 80. Europe PEM Hydrogen Electrolyzer Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 81. Middle East & Africa PEM Hydrogen Electrolyzer Sales Forecast by Country (2027-2032) & (Units)

Table 82. Middle East & Africa PEM Hydrogen Electrolyzer Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. Global PEM Hydrogen Electrolyzer Sales Forecast by Type (2027-2032) & (Units)

Table 84. Global PEM Hydrogen Electrolyzer Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 85. Global PEM Hydrogen Electrolyzer Sales Forecast by Application (2027-2032) & (Units)

Table 86. Global PEM Hydrogen Electrolyzer Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 87. Proton Onsite (Nel Hydrogen) Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 88. Proton Onsite (Nel Hydrogen) PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 89. Proton Onsite (Nel Hydrogen) PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 90. Proton Onsite (Nel Hydrogen) Main Business

Table 91. Proton Onsite (Nel Hydrogen) Latest Developments

Table 92. Accelera Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 93. Accelera PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 94. Accelera PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price

(K US\$/Unit) and Gross Margin (2021-2026)

Table 95. Accelera Main Business

Table 96. Accelera Latest Developments

Table 97. Cummins Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 98. Cummins PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 99. Cummins PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 100. Cummins Main Business

Table 101. Cummins Latest Developments

Table 102. Elogen Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 103. Elogen PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 104. Elogen PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 105. Elogen Main Business

Table 106. Elogen Latest Developments

Table 107. ITM Power Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 108. ITM Power PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 109. ITM Power PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 110. ITM Power Main Business

Table 111. ITM Power Latest Developments

Table 112. IMI Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 113. IMI PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 114. IMI PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 115. IMI Main Business

Table 116. IMI Latest Developments

Table 117. H-TEC SYSTEMS Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 118. H-TEC SYSTEMS PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 119. H-TEC SYSTEMS PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 120. H-TEC SYSTEMS Main Business

Table 121. H-TEC SYSTEMS Latest Developments

Table 122. Toshiba Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 123. Toshiba PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 124. Toshiba PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 125. Toshiba Main Business

Table 126. Toshiba Latest Developments

Table 127. Kobelco Eco-Solutions Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 128. Kobelco Eco-Solutions PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 129. Kobelco Eco-Solutions PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 130. Kobelco Eco-Solutions Main Business

Table 131. Kobelco Eco-Solutions Latest Developments

Table 132. Siemens Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 133. Siemens PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 134. Siemens PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 135. Siemens Main Business

Table 136. Siemens Latest Developments

Table 137. Kyros Hydrogen Solutions Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 138. Kyros Hydrogen Solutions PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 139. Kyros Hydrogen Solutions PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 140. Kyros Hydrogen Solutions Main Business

Table 141. Kyros Hydrogen Solutions Latest Developments

Table 142. Hystar Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 143. Hystar PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 144. Hystar PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 145. Hystar Main Business

Table 146. Hystar Latest Developments

Table 147. Plug Power Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 148. Plug Power PEM Hydrogen Electrolyzer Product Portfolios and Specifications
Table 149. Plug Power PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
Table 150. Plug Power Main Business
Table 151. Plug Power Latest Developments
Table 152. Quest One Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors
Table 153. Quest One PEM Hydrogen Electrolyzer Product Portfolios and Specifications
Table 154. Quest One PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
Table 155. Quest One Main Business
Table 156. Quest One Latest Developments
Table 157. Elchemtech Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors
Table 158. Elchemtech PEM Hydrogen Electrolyzer Product Portfolios and Specifications
Table 159. Elchemtech PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
Table 160. Elchemtech Main Business
Table 161. Elchemtech Latest Developments
Table 162. H2B2 Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors
Table 163. H2B2 PEM Hydrogen Electrolyzer Product Portfolios and Specifications
Table 164. H2B2 PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
Table 165. H2B2 Main Business
Table 166. H2B2 Latest Developments
Table 167. Beijing Sany Heavy Industry Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors
Table 168. Beijing Sany Heavy Industry PEM Hydrogen Electrolyzer Product Portfolios and Specifications
Table 169. Beijing Sany Heavy Industry PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
Table 170. Beijing Sany Heavy Industry Main Business
Table 171. Beijing Sany Heavy Industry Latest Developments
Table 172. Guangdong Cawolo Hydrogen Technology Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors
Table 173. Guangdong Cawolo Hydrogen Technology PEM Hydrogen Electrolyzer

Product Portfolios and Specifications

Table 174. Guangdong Cawolo Hydrogen Technology PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 175. Guangdong Cawolo Hydrogen Technology Main Business

Table 176. Guangdong Cawolo Hydrogen Technology Latest Developments

Table 177. Shanghai Kinghet Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 178. Shanghai Kinghet PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 179. Shanghai Kinghet PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 180. Shanghai Kinghet Main Business

Table 181. Shanghai Kinghet Latest Developments

Table 182. Guangdong Qingneng Ruilong New Energy Technology Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 183. Guangdong Qingneng Ruilong New Energy Technology PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 184. Guangdong Qingneng Ruilong New Energy Technology PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 185. Guangdong Qingneng Ruilong New Energy Technology Main Business

Table 186. Guangdong Qingneng Ruilong New Energy Technology Latest Developments

Table 187. Changchun Green Drive Hydrogen Technology Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 188. Changchun Green Drive Hydrogen Technology PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 189. Changchun Green Drive Hydrogen Technology PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 190. Changchun Green Drive Hydrogen Technology Main Business

Table 191. Changchun Green Drive Hydrogen Technology Latest Developments

Table 192. Shandong Saikesaisi Hydrogen Energy Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 193. Shandong Saikesaisi Hydrogen Energy PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 194. Shandong Saikesaisi Hydrogen Energy PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 195. Shandong Saikesaisi Hydrogen Energy Main Business

Table 196. Shandong Saikesaisi Hydrogen Energy Latest Developments

Table 197. Huizhou EVE Hydrogen Energy Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 198. Huizhou EVE Hydrogen Energy PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 199. Huizhou EVE Hydrogen Energy PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 200. Huizhou EVE Hydrogen Energy Main Business

Table 201. Huizhou EVE Hydrogen Energy Latest Developments

Table 202. Hefei Sungrow Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 203. Hefei Sungrow PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 204. Hefei Sungrow PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 205. Hefei Sungrow Main Business

Table 206. Hefei Sungrow Latest Developments

Table 207. Amoy Island Hydrogen (Xiamen) Technology Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 208. Amoy Island Hydrogen (Xiamen) Technology PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 209. Amoy Island Hydrogen (Xiamen) Technology PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 210. Amoy Island Hydrogen (Xiamen) Technology Main Business

Table 211. Amoy Island Hydrogen (Xiamen) Technology Latest Developments

Table 212. BriHyNergy (Shenzhen) Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 213. BriHyNergy (Shenzhen) PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 214. BriHyNergy (Shenzhen) PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 215. BriHyNergy (Shenzhen) Main Business

Table 216. BriHyNergy (Shenzhen) Latest Developments

Table 217. 718th Research Institute of CSIC Basic Information, PEM Hydrogen Electrolyzer Manufacturing Base, Sales Area and Its Competitors

Table 218. 718th Research Institute of CSIC PEM Hydrogen Electrolyzer Product Portfolios and Specifications

Table 219. 718th Research Institute of CSIC PEM Hydrogen Electrolyzer Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 220. 718th Research Institute of CSIC Main Business

Table 221. 718th Research Institute of CSIC Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of PEM Hydrogen Electrolyzer
- Figure 2. PEM Hydrogen Electrolyzer Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global PEM Hydrogen Electrolyzer Sales Growth Rate 2021-2032 (Units)
- Figure 7. Global PEM Hydrogen Electrolyzer Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. PEM Hydrogen Electrolyzer Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. PEM Hydrogen Electrolyzer Sales Market Share by Country/Region (2025)
- Figure 10. PEM Hydrogen Electrolyzer Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Small Type
- Figure 12. Product Picture of Medium Type
- Figure 13. Product Picture of Large Type
- Figure 14. Global PEM Hydrogen Electrolyzer Sales Market Share by Type in 2026
- Figure 15. Global PEM Hydrogen Electrolyzer Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Modular Platform
- Figure 17. Product Picture of Containerized Platform
- Figure 18. Global PEM Hydrogen Electrolyzer Sales Market Share by Form in 2026
- Figure 19. Global PEM Hydrogen Electrolyzer Revenue Market Share by Form (2021-2026)
- Figure 20. Product Picture of Plug & Play
- Figure 21. Product Picture of Others
- Figure 22. Global PEM Hydrogen Electrolyzer Sales Market Share by Design in 2026
- Figure 23. Global PEM Hydrogen Electrolyzer Revenue Market Share by Design (2021-2026)
- Figure 24. PEM Hydrogen Electrolyzer Consumed in Power to Gas
- Figure 25. Global PEM Hydrogen Electrolyzer Market: Power to Gas (2021-2026) & (Units)
- Figure 26. PEM Hydrogen Electrolyzer Consumed in Chemical & Refining
- Figure 27. Global PEM Hydrogen Electrolyzer Market: Chemical & Refining (2021-2026) & (Units)

Figure 28. PEM Hydrogen Electrolyzer Consumed in Metallurgy & Steel

Figure 29. Global PEM Hydrogen Electrolyzer Market: Metallurgy & Steel (2021-2026) & (Units)

Figure 30. PEM Hydrogen Electrolyzer Consumed in Hydrogen Refueling Station

Figure 31. Global PEM Hydrogen Electrolyzer Market: Hydrogen Refueling Station (2021-2026) & (Units)

Figure 32. PEM Hydrogen Electrolyzer Consumed in Power

Figure 33. Global PEM Hydrogen Electrolyzer Market: Power (2021-2026) & (Units)

Figure 34. PEM Hydrogen Electrolyzer Consumed in Electronics & Semiconductor

Figure 35. Global PEM Hydrogen Electrolyzer Market: Electronics & Semiconductor (2021-2026) & (Units)

Figure 36. PEM Hydrogen Electrolyzer Consumed in Others

Figure 37. Global PEM Hydrogen Electrolyzer Market: Others (2021-2026) & (Units)

Figure 38. Global PEM Hydrogen Electrolyzer Sale Market Share by Application (2025)

Figure 39. Global PEM Hydrogen Electrolyzer Revenue Market Share by Application in 2025

Figure 40. PEM Hydrogen Electrolyzer Sales by Company in 2025 (Units)

Figure 41. Global PEM Hydrogen Electrolyzer Sales Market Share by Company in 2025

Figure 42. PEM Hydrogen Electrolyzer Revenue by Company in 2025 (\$ millions)

Figure 43. Global PEM Hydrogen Electrolyzer Revenue Market Share by Company in 2025

Figure 44. Global PEM Hydrogen Electrolyzer Sales Market Share by Geographic Region (2021-2026)

Figure 45. Global PEM Hydrogen Electrolyzer Revenue Market Share by Geographic Region in 2025

Figure 46. Americas PEM Hydrogen Electrolyzer Sales 2021-2026 (Units)

Figure 47. Americas PEM Hydrogen Electrolyzer Revenue 2021-2026 (\$ millions)

Figure 48. APAC PEM Hydrogen Electrolyzer Sales 2021-2026 (Units)

Figure 49. APAC PEM Hydrogen Electrolyzer Revenue 2021-2026 (\$ millions)

Figure 50. Europe PEM Hydrogen Electrolyzer Sales 2021-2026 (Units)

Figure 51. Europe PEM Hydrogen Electrolyzer Revenue 2021-2026 (\$ millions)

Figure 52. Middle East & Africa PEM Hydrogen Electrolyzer Sales 2021-2026 (Units)

Figure 53. Middle East & Africa PEM Hydrogen Electrolyzer Revenue 2021-2026 (\$ millions)

Figure 54. Americas PEM Hydrogen Electrolyzer Sales Market Share by Country in 2025

Figure 55. Americas PEM Hydrogen Electrolyzer Revenue Market Share by Country (2021-2026)

Figure 56. Americas PEM Hydrogen Electrolyzer Sales Market Share by Type

(2021-2026)

Figure 57. Americas PEM Hydrogen Electrolyzer Sales Market Share by Application (2021-2026)

Figure 58. United States PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 59. Canada PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 60. Mexico PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 61. Brazil PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 62. APAC PEM Hydrogen Electrolyzer Sales Market Share by Region in 2025

Figure 63. APAC PEM Hydrogen Electrolyzer Revenue Market Share by Region (2021-2026)

Figure 64. APAC PEM Hydrogen Electrolyzer Sales Market Share by Type (2021-2026)

Figure 65. APAC PEM Hydrogen Electrolyzer Sales Market Share by Application (2021-2026)

Figure 66. China PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 67. Japan PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 68. South Korea PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 69. Southeast Asia PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 70. India PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 71. Australia PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 72. China Taiwan PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 73. Europe PEM Hydrogen Electrolyzer Sales Market Share by Country in 2025

Figure 74. Europe PEM Hydrogen Electrolyzer Revenue Market Share by Country (2021-2026)

Figure 75. Europe PEM Hydrogen Electrolyzer Sales Market Share by Type (2021-2026)

Figure 76. Europe PEM Hydrogen Electrolyzer Sales Market Share by Application (2021-2026)

Figure 77. Germany PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 78. France PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 79. UK PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 80. Italy PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 81. Russia PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 82. Middle East & Africa PEM Hydrogen Electrolyzer Sales Market Share by

Country (2021-2026)

Figure 83. Middle East & Africa PEM Hydrogen Electrolyzer Sales Market Share by Type (2021-2026)

Figure 84. Middle East & Africa PEM Hydrogen Electrolyzer Sales Market Share by Application (2021-2026)

Figure 85. Egypt PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 86. South Africa PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 87. Israel PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 88. Turkey PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 89. GCC Countries PEM Hydrogen Electrolyzer Revenue Growth 2021-2026 (\$ millions)

Figure 90. Manufacturing Cost Structure Analysis of PEM Hydrogen Electrolyzer in 2026

Figure 91. Manufacturing Process Analysis of PEM Hydrogen Electrolyzer

Figure 92. Industry Chain Structure of PEM Hydrogen Electrolyzer

Figure 93. Channels of Distribution

Figure 94. Global PEM Hydrogen Electrolyzer Sales Market Forecast by Region (2027-2032)

Figure 95. Global PEM Hydrogen Electrolyzer Revenue Market Share Forecast by Region (2027-2032)

Figure 96. Global PEM Hydrogen Electrolyzer Sales Market Share Forecast by Type (2027-2032)

Figure 97. Global PEM Hydrogen Electrolyzer Revenue Market Share Forecast by Type (2027-2032)

Figure 98. Global PEM Hydrogen Electrolyzer Sales Market Share Forecast by Application (2027-2032)

Figure 99. Global PEM Hydrogen Electrolyzer Revenue Market Share Forecast by Application (2027-2032)

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