

# Global PEM Water Electrolysis Competitive Landscape Professional Research Report 2025

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## Abstracts

### Market Overview

According to DIResearch's in-depth investigation and research, the global PEM Water Electrolysis market size will reach 545.71 Million USD in 2025 and is projected to reach 6,476.17 Million USD by 2032, with a CAGR of 42.39% (2025-2032). Notably, the China PEM Water Electrolysis market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

### Research Summary

PEM (Proton Exchange Membrane) water electrolysis is an electrochemical process that uses electricity to split water (H<sub>2</sub>O) into its constituent elements, hydrogen (H<sub>2</sub>) and oxygen (O<sub>2</sub>). It relies on a solid polymer electrolyte membrane to separate the anode and cathode compartments, facilitating the transport of protons while preventing the mixing of hydrogen and oxygen gases. When an electric current is applied, water molecules are dissociated at the electrodes, with hydrogen ions (protons) migrating through the PEM to the cathode and reacting to form hydrogen gas, while oxygen ions combine to produce oxygen gas at the anode. PEM water electrolysis is known for its efficiency and ability to produce high-purity hydrogen gas, which can be used for various applications, including clean energy storage, transportation, and industrial processes. It plays a vital role in the development of a hydrogen economy, where hydrogen is considered a sustainable and versatile energy carrier for a wide range of applications, helping to reduce greenhouse gas emissions and promote renewable energy integration.

The major global manufacturers of PEM Water Electrolysis include Proton On-Site, 718th Research Institute of CSIC, Teledyne Energy Systems, Hydrogenics, Nel Hydrogen, Suzhou Jingli, Beijing Zhongdian, McPhy, Siemens, TianJin Mainland, Areva H2gen, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of PEM Water Electrolysis. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global PEM Water Electrolysis market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the PEM Water Electrolysis market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of PEM Water Electrolysis industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of PEM Water Electrolysis Include:

Proton On-Site

718th Research Institute of CSIC

Teledyne Energy Systems

Hydrogenics

Nel Hydrogen

Suzhou Jingli

Beijing Zhongdian

McPhy

Siemens

TianJin Mainland

Areva H2gen

PEM Water Electrolysis Product Segment Include:

Small Electrolyzer (Below 50 /m<sup>3</sup>H<sub>2</sub>/h)

Medium Electrolyzer (50-200 /m<sup>3</sup>H<sub>2</sub>/h)

Large Electrolyzer (Above 200 /m<sup>3</sup>H<sub>2</sub>/h)

PEM Water Electrolysis Product Application Include:

Power Plant

Steel Plant

Electronics and Optoelectronics

Others

## **Chapter Scope**

Chapter 1: Product Research Range, Product Types and Applications, Market Overview, Market Situation and Trends

Chapter 2: Global PEM Water Electrolysis Industry PESTEL Analysis

Chapter 3: Global PEM Water Electrolysis Industry Porter's Five Forces Analysis

Chapter 4: Global PEM Water Electrolysis Major Regional Market Size (Revenue, Sales, Price) and Forecast Analysis

Chapter 5: Global PEM Water Electrolysis Market Size and Forecast by Type and Application Analysis

Chapter 6: North America PEM Water Electrolysis Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 7: Europe PEM Water Electrolysis Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 8: China PEM Water Electrolysis Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 9: APAC (Excl. China) PEM Water Electrolysis Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 10: Latin America PEM Water Electrolysis Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 11: Middle East and Africa PEM Water Electrolysis Competitive Analysis (Market Size, Key Players and Market Share, Product Type and Application Segment Analysis, Countries Analysis)

Chapter 12: Global PEM Water Electrolysis Competitive Analysis of Key Manufacturers (Sales, Revenue, Market Share, Price, Regional Distribution and Industry Concentration)

Chapter 13: Key Company Profiles (Product Portfolio, Sales, Revenue, Price and Gross Margin)

Chapter 14: Industrial Chain Analysis, Include Raw Material Suppliers, Distributors and Customers

Chapter 15: Research Findings and Conclusion

Chapter 16: Methodology and Data Sources

## Contents

### **1 PEM WATER ELECTROLYSIS MARKET OVERVIEW**

- 1.1 Product Definition and Statistical Scope
- 1.2 PEM Water Electrolysis Product by Type
  - 1.2.1 Small Electrolyzer (Below 50 /m<sup>3</sup>H<sub>2</sub>/h)
  - 1.2.2 Medium Electrolyzer (50-200 /m<sup>3</sup>H<sub>2</sub>/h)
  - 1.2.3 Large Electrolyzer (Above 200 /m<sup>3</sup>H<sub>2</sub>/h)
- 1.3 PEM Water Electrolysis Product by Application
  - 1.3.1 Power Plant
  - 1.3.2 Steel Plant
  - 1.3.3 Electronics and Optoelectronics
  - 1.3.4 Others
- 1.4 Global PEM Water Electrolysis Market Revenue and Sales Analysis
  - 1.4.1 Global PEM Water Electrolysis Revenue Market Size Analysis (2020-2032)
  - 1.4.2 Global PEM Water Electrolysis Sales Market Size Analysis (2020-2032)
  - 1.4.3 Global PEM Water Electrolysis Market Sales Price Trend Analysis (2020-2032)
- 1.5 PEM Water Electrolysis Industry Trends and Innovation
  - 1.5.1 PEM Water Electrolysis Industry Trends and Innovation
  - 1.5.2 PEM Water Electrolysis Market Drivers and Challenges

### **2 PEM WATER ELECTROLYSIS MARKET PESTEL ANALYSIS**

- 2.1 Political Factors Analysis
- 2.2 Economic Factors Analysis
- 2.3 Social Factors Analysis
- 2.4 Technological Factors Analysis
- 2.5 Environmental Factors Analysis
- 2.6 Legal Factors Analysis

### **3 PEM WATER ELECTROLYSIS MARKET PORTER'S FIVE FORCES ANALYSIS**

- 3.1 Competitive Rivalry
- 3.2 Threat of New Entrants
- 3.3 Bargaining Power of Suppliers
- 3.4 Bargaining Power of Buyers
- 3.5 Threat of Substitutes

## **4 GLOBAL PEM WATER ELECTROLYSIS MARKET ANALYSIS BY REGIONS**

- 4.1 PEM Water Electrolysis Overall Market: 2024 VS 2025 VS 2032
- 4.2 Global PEM Water Electrolysis Revenue and Forecast Analysis (2020-2032)
  - 4.2.1 Global PEM Water Electrolysis Revenue and Market Share by Region (2020-2025)
  - 4.2.2 Global PEM Water Electrolysis Revenue and Market Share Forecast by Region (2026-2032)
- 4.3 Global PEM Water Electrolysis Sales and Forecast Analysis (2020-2032)
  - 4.3.1 Global PEM Water Electrolysis Sales and Market Share by Region (2020-2025)
  - 4.3.2 Global PEM Water Electrolysis Sales and Market Share Forecast by Region (2026-2032)
- 4.4 Global PEM Water Electrolysis Sales Price Trend Analysis (2020-2032)

## **5 GLOBAL PEM WATER ELECTROLYSIS MARKET SIZE BY TYPE AND APPLICATION**

- 5.1 Global PEM Water Electrolysis Market Size by Type
  - 5.1.1 Global PEM Water Electrolysis Revenue and Forecast Analysis by Type (2020-2032)
  - 5.1.2 Global PEM Water Electrolysis Sales and Forecast Analysis by Type (2020-2032)
- 5.2 Global PEM Water Electrolysis Market Size by Application
  - 5.2.1 Global PEM Water Electrolysis Revenue and Forecast Analysis by Application (2020-2032)
  - 5.2.2 Global PEM Water Electrolysis Sales and Forecast Analysis by Application (2020-2032)

## **6 NORTH AMERICA**

- 6.1 North America PEM Water Electrolysis Market Size and Growth Rate Analysis (2020-2032)
- 6.2 North America Key Manufacturers Analysis
- 6.3 North America PEM Water Electrolysis Market Size by Type
  - 6.3.1 North America PEM Water Electrolysis Sales by Type (2020-2032)
  - 6.3.2 North America PEM Water Electrolysis Revenue by Type (2020-2032)
- 6.4 North America PEM Water Electrolysis Market Size by Application
  - 6.4.1 North America PEM Water Electrolysis Sales by Application (2020-2032)
  - 6.4.2 North America PEM Water Electrolysis Revenue by Application (2020-2032)

## 6.5 North America PEM Water Electrolysis Market Size by Country

### 6.5.1 US

### 6.5.2 Canada

## 7 EUROPE

### 7.1 Europe PEM Water Electrolysis Market Size and Growth Rate Analysis (2020-2032)

### 7.2 Europe Key Manufacturers Analysis

### 7.3 Europe PEM Water Electrolysis Market Size by Type

#### 7.3.1 Europe PEM Water Electrolysis Sales by Type (2020-2032)

#### 7.3.2 Europe PEM Water Electrolysis Revenue by Type (2020-2032)

### 7.4 Europe PEM Water Electrolysis Market Size by Application

#### 7.4.1 Europe PEM Water Electrolysis Sales by Application (2020-2032)

#### 7.4.2 Europe PEM Water Electrolysis Revenue by Application (2020-2032)

### 7.5 Europe PEM Water Electrolysis Market Size by Country

#### 7.5.1 Germany

#### 7.5.2 France

#### 7.5.3 United Kingdom

#### 7.5.4 Italy

#### 7.5.5 Spain

#### 7.5.6 Benelux

## 8 CHINA

### 8.1 China PEM Water Electrolysis Market Size and Growth Rate Analysis (2020-2032)

### 8.2 China Key Manufacturers Analysis

### 8.3 China PEM Water Electrolysis Market Size by Type

#### 8.3.1 China PEM Water Electrolysis Sales by Type (2020-2032)

#### 8.3.2 China PEM Water Electrolysis Revenue by Type (2020-2032)

### 8.4 China PEM Water Electrolysis Market Size by Application

#### 8.4.1 China PEM Water Electrolysis Sales by Application (2020-2032)

#### 8.4.2 China PEM Water Electrolysis Revenue by Application (2020-2032)

## 9 APAC (EXCL. CHINA)

### 9.1 APAC (excl. China) PEM Water Electrolysis Market Size and Growth Rate Analysis (2020-2032)

### 9.2 APAC (excl. China) Key Manufacturers Analysis

### 9.3 APAC (excl. China) PEM Water Electrolysis Market Size by Type

- 9.3.1 APAC (excl. China) PEM Water Electrolysis Sales by Type (2020-2032)
- 9.3.2 APAC (excl. China) PEM Water Electrolysis Revenue by Type (2020-2032)
- 9.4 APAC (excl. China) PEM Water Electrolysis Market Size by Application
  - 9.4.1 APAC (excl. China) PEM Water Electrolysis Sales by Application (2020-2032)
  - 9.4.2 APAC (excl. China) PEM Water Electrolysis Revenue by Application (2020-2032)
- 9.5 APAC (excl. China) PEM Water Electrolysis Market Size by Country
  - 9.5.1 Japan
  - 9.5.2 South Korea
  - 9.5.3 India
  - 9.5.4 Australia
  - 9.5.5 Southeast Asia

## **10 LATIN AMERICA**

- 10.1 Latin America PEM Water Electrolysis Market Size and Growth Rate Analysis (2020-2032)
- 10.2 Latin America Key Manufacturers Analysis
- 10.3 Latin America PEM Water Electrolysis Market Size by Type
  - 10.3.1 Latin America PEM Water Electrolysis Sales by Type (2020-2032)
  - 10.3.2 Latin America PEM Water Electrolysis Revenue by Type (2020-2032)
- 10.4 Latin America PEM Water Electrolysis Market Size by Application
  - 10.4.1 Latin America PEM Water Electrolysis Sales by Application (2020-2032)
  - 10.4.2 Latin America PEM Water Electrolysis Revenue by Application (2020-2032)
- 10.5 Latin America PEM Water Electrolysis Market Size by Country
- 10.6 Latin America PEM Water Electrolysis Market Size by Country
  - 10.6.1 Mexico
  - 10.6.2 Brazil

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa PEM Water Electrolysis Market Size and Growth Rate Analysis (2020-2032)
- 11.2 Middle East & Africa Key Manufacturers Analysis
- 11.3 Middle East & Africa PEM Water Electrolysis Market Size by Type
  - 11.3.1 Middle East & Africa PEM Water Electrolysis Sales by Type (2020-2032)
  - 11.3.2 Middle East & Africa PEM Water Electrolysis Revenue by Type (2020-2032)
- 11.4 Middle East & Africa PEM Water Electrolysis Market Size by Application
  - 11.4.1 Middle East & Africa PEM Water Electrolysis Sales by Application (2020-2032)
  - 11.4.2 Middle East & Africa PEM Water Electrolysis Revenue by Application

(2020-2032)

11.5 Middle East PEM Water Electrolysis Market Size by Country

11.5.1 Saudi Arabia

11.5.2 South Africa

## **12 COMPETITION BY MANUFACTURERS**

12.1 Global PEM Water Electrolysis Market Sales, Revenue and Price by Key Manufacturers (2021-2025)

12.1.1 Global PEM Water Electrolysis Market Sales by Key Manufacturers (2021-2025)

12.1.2 Global PEM Water Electrolysis Market Revenue by Key Manufacturers (2021-2025)

12.1.3 Global PEM Water Electrolysis Average Sales Price by Manufacturers (2021-2025)

12.2 PEM Water Electrolysis Competitive Landscape Analysis and Market Dynamic

12.2.1 PEM Water Electrolysis Competitive Landscape Analysis

12.2.2 Global Key Manufacturers Headquarter Location and Key Area Sales

12.2.3 Market Dynamic

## **13 KEY COMPANIES ANALYSIS**

13.1 Proton On-Site

13.1.1 Proton On-Site Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.1.2 Proton On-Site PEM Water Electrolysis Product Portfolio

13.1.3 Proton On-Site PEM Water Electrolysis Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.2 718th Research Institute of CSIC

13.2.1 718th Research Institute of CSIC Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.2.2 718th Research Institute of CSIC PEM Water Electrolysis Product Portfolio

13.2.3 718th Research Institute of CSIC PEM Water Electrolysis Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

13.3 Teledyne Energy Systems

13.3.1 Teledyne Energy Systems Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.3.2 Teledyne Energy Systems PEM Water Electrolysis Product Portfolio

13.3.3 Teledyne Energy Systems PEM Water Electrolysis Market Data Analysis

(Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

#### 13.4 Hydrogenics

13.4.1 Hydrogenics Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.4.2 Hydrogenics PEM Water Electrolysis Product Portfolio

13.4.3 Hydrogenics PEM Water Electrolysis Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

#### 13.5 Nel Hydrogen

13.5.1 Nel Hydrogen Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.5.2 Nel Hydrogen PEM Water Electrolysis Product Portfolio

13.5.3 Nel Hydrogen PEM Water Electrolysis Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

#### 13.6 Suzhou Jingli

13.6.1 Suzhou Jingli Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.6.2 Suzhou Jingli PEM Water Electrolysis Product Portfolio

13.6.3 Suzhou Jingli PEM Water Electrolysis Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

#### 13.7 Beijing Zhongdian

13.7.1 Beijing Zhongdian Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.7.2 Beijing Zhongdian PEM Water Electrolysis Product Portfolio

13.7.3 Beijing Zhongdian PEM Water Electrolysis Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

#### 13.8 McPhy

13.8.1 McPhy Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.8.2 McPhy PEM Water Electrolysis Product Portfolio

13.8.3 McPhy PEM Water Electrolysis Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

#### 13.9 Siemens

13.9.1 Siemens Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.9.2 Siemens PEM Water Electrolysis Product Portfolio

13.9.3 Siemens PEM Water Electrolysis Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

#### 13.10 TianJin Mainland

13.10.1 TianJin Mainland Basic Company Profile (Employees, Areas Service,

## Competitors and Contact Information)

13.10.2 TianJin Mainland PEM Water Electrolysis Product Portfolio

13.10.3 TianJin Mainland PEM Water Electrolysis Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

## 13.11 Areva H2gen

13.11.1 Areva H2gen Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

13.11.2 Areva H2gen PEM Water Electrolysis Product Portfolio

13.11.3 Areva H2gen PEM Water Electrolysis Market Data Analysis (Revenue, Sales, Price, Gross Margin and Market Share) (2021-2025)

## **14 INDUSTRY CHAIN ANALYSIS**

14.1 PEM Water Electrolysis Industry Chain Analysis

14.2 PEM Water Electrolysis Industry Raw Material and Suppliers Analysis

14.2.1 PEM Water Electrolysis Key Raw Material Supply Analysis

14.2.2 Raw Material Suppliers and Contact Information

14.3 PEM Water Electrolysis Typical Downstream Customers

14.4 PEM Water Electrolysis Sales Channel Analysis

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 METHODOLOGY AND DATA SOURCE**

16.1 Methodology/Research Approach

16.2 Research Scope

16.3 Benchmarks and Assumptions

16.4 Data Source

16.4.1 Primary Sources

16.4.2 Secondary Sources

16.5 Data Cross Validation

16.6 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1: Global PEM Water Electrolysis Market Size Growth Rate by Type, 2024 VS 2025 VS 2032 (US\$ Million)

Table 2: Global PEM Water Electrolysis Market Size Growth Rate by Application, 2024 VS 2025 VS 2032 (US\$ Million)

Table 3: PEM Water Electrolysis Industry Development Status

Table 4: PEM Water Electrolysis Industry Development Trends

Table 5: Global PEM Water Electrolysis Market Size by Region in US\$ Million: 2024 VS 2025 VS 2032

Table 6: Global PEM Water Electrolysis Revenue by Region (2020-2025) & (US\$ Million)

Table 7: Global PEM Water Electrolysis Revenue Market Share by Region (2020-2025)

Table 8: Global PEM Water Electrolysis Revenue Forecast by Region (2026-2032) & (US\$ Million)

Table 9: Global PEM Water Electrolysis Revenue Market Share Forecast by Region (2026-2032)

Table 10: Global PEM Water Electrolysis Sales by Region (2020-2025) & (Units)

Table 11: Global PEM Water Electrolysis Sales Market Share by Region (2020-2025)

Table 12: Global PEM Water Electrolysis Sales Forecast by Region (2026-2032) & (Units)

Table 13: Global PEM Water Electrolysis Sales Market Share Forecast by Region (2026-2032)

Table 14: Global PEM Water Electrolysis Revenue Analysis by Type (2020-2025) & (US\$ Million)

Table 15: Global PEM Water Electrolysis Revenue Analysis Forecast by Type (2026-2032) & (US\$ Million)

Table 16: Global PEM Water Electrolysis Sales Analysis by Type (2020-2025) & (Units)

Table 17: Global PEM Water Electrolysis Sales Analysis Forecast by Type (2026-2032) & (Units)

Table 18: Global PEM Water Electrolysis Revenue Analysis by Application (2020-2025) & (US\$ Million)

Table 19: Global PEM Water Electrolysis Revenue Analysis Forecast by Application (2026-2032) & (US\$ Million)

Table 20: Global PEM Water Electrolysis Sales Analysis by Application (2020-2025) & (Units)

Table 21: Global PEM Water Electrolysis Sales Analysis Forecast by Application

(2026-2032) & (Units)

Table 22: Key PEM Water Electrolysis Players in North America

Table 23: North America PEM Water Electrolysis Sales by Type (2020-2025) & (Units)

Table 24: North America PEM Water Electrolysis Sales by Type (2026-2032) & (Units)

Table 25: North America PEM Water Electrolysis Revenue by Type (2020-2025) & (US\$ Million)

Table 26: North America PEM Water Electrolysis Revenue by Type (2026-2032) & (US\$ Million)

Table 27: North America PEM Water Electrolysis Sales by Application (2020-2025) & (Units)

Table 28: North America PEM Water Electrolysis Sales by Application (2026-2032) & (Units)

Table 29: North America PEM Water Electrolysis Revenue by Application (2020-2025) & (US\$ Million)

Table 30: North America PEM Water Electrolysis Revenue by Application (2026-2032) & (US\$ Million)

Table 31: North America PEM Water Electrolysis Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 32: North America PEM Water Electrolysis Revenue Market Size by Country (2026-2032) & (US\$ Million)

Table 33: North America PEM Water Electrolysis Sales Market Size by Country (2020-2025) & (Units)

Table 34: North America PEM Water Electrolysis Sales Market Size by Country (2026-2032) & (Units)

Table 35: Key PEM Water Electrolysis Players in Europe

Table 36: Europe PEM Water Electrolysis Sales by Type (2020-2025) & (Units)

Table 37: Europe PEM Water Electrolysis Sales by Type (2026-2032) & (Units)

Table 38: Europe PEM Water Electrolysis Revenue by Type (2020-2025) & (US\$ Million)

Table 39: Europe PEM Water Electrolysis Revenue by Type (2026-2032) & (US\$ Million)

Table 40: Europe PEM Water Electrolysis Sales by Application (2020-2025) & (Units)

Table 41: Europe PEM Water Electrolysis Sales by Application (2026-2032) & (Units)

Table 42: Europe PEM Water Electrolysis Revenue by Application (2020-2025) & (US\$ Million)

Table 43: Europe PEM Water Electrolysis Revenue by Application (2026-2032) & (US\$ Million)

Table 44: Europe PEM Water Electrolysis Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 45: Europe PEM Water Electrolysis Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 46: Europe PEM Water Electrolysis Sales Market Size by Country (2020-2025) & (Units)

Table 47: Europe PEM Water Electrolysis Sales Market Size Forecast by Country (2026-2032) & (Units)

Table 48: Key PEM Water Electrolysis Players in China

Table 49: China PEM Water Electrolysis Sales by Type (2020-2025) & (Units)

Table 50: China PEM Water Electrolysis Sales by Type (2026-2032) & (Units)

Table 51: China PEM Water Electrolysis Revenue by Type (2020-2025) & (US\$ Million)

Table 52: China PEM Water Electrolysis Revenue by Type (2026-2032) & (US\$ Million)

Table 53: China PEM Water Electrolysis Sales by Application (2020-2025) & (Units)

Table 54: China PEM Water Electrolysis Sales by Application (2026-2032) & (Units)

Table 55: China PEM Water Electrolysis Revenue by Application (2020-2025) & (US\$ Million)

Table 56: China PEM Water Electrolysis Revenue by Application (2026-2032) & (US\$ Million)

Table 57: Key PEM Water Electrolysis Players in APAC (excl. China)

Table 58: APAC (excl. China) PEM Water Electrolysis Sales by Type (2020-2025) & (Units)

Table 59: APAC (excl. China) PEM Water Electrolysis Sales by Type (2026-2032) & (Units)

Table 60: APAC (excl. China) PEM Water Electrolysis Revenue by Type (2020-2025) & (US\$ Million)

Table 61: APAC (excl. China) PEM Water Electrolysis Revenue by Type (2026-2032) & (US\$ Million)

Table 62: APAC (excl. China) PEM Water Electrolysis Sales by Application (2020-2025) & (Units)

Table 63: APAC (excl. China) PEM Water Electrolysis Sales by Application (2026-2032) & (Units)

Table 64: APAC (excl. China) PEM Water Electrolysis Revenue by Application (2020-2025) & (US\$ Million)

Table 65: APAC (excl. China) PEM Water Electrolysis Revenue by Application (2026-2032) & (US\$ Million)

Table 66: APAC (excl. China) PEM Water Electrolysis Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 67: APAC (excl. China) PEM Water Electrolysis Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 68: APAC (excl. China) PEM Water Electrolysis Sales Market Size by Country

(2020-2025) & (Units)

Table 69: APAC (excl. China) PEM Water Electrolysis Sales Market Size Forecast by Country (2026-2032) & (Units)

Table 70: Key PEM Water Electrolysis Players in Latin America

Table 71: Latin America PEM Water Electrolysis Sales by Type (2020-2025) & (Units)

Table 72: Latin America PEM Water Electrolysis Sales by Type (2026-2032) & (Units)

Table 73: Latin America PEM Water Electrolysis Revenue by Type (2020-2025) & (US\$ Million)

Table 74: Latin America PEM Water Electrolysis Revenue by Type (2026-2032) & (US\$ Million)

Table 75: Latin America PEM Water Electrolysis Sales by Application (2020-2025) & (Units)

Table 76: Latin America PEM Water Electrolysis Sales by Application (2026-2032) & (Units)

Table 77: Latin America PEM Water Electrolysis Revenue by Application (2020-2025) & (US\$ Million)

Table 78: Latin America PEM Water Electrolysis Revenue by Application (2026-2032) & (US\$ Million)

Table 79: Latin America PEM Water Electrolysis Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 80: Latin America PEM Water Electrolysis Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 81: Latin America PEM Water Electrolysis Sales Market Size by Country (2020-2025) & (Units)

Table 82: Latin America PEM Water Electrolysis Sales Market Size Forecast by Country (2026-2032) & (Units)

Table 83: Key PEM Water Electrolysis Players in Middle East & Africa

Table 84: Middle East & Africa PEM Water Electrolysis Sales by Type (2020-2025) & (Units)

Table 85: Middle East & Africa PEM Water Electrolysis Sales by Type (2026-2032) & (Units)

Table 86: Middle East & Africa PEM Water Electrolysis Revenue by Type (2020-2025) & (US\$ Million)

Table 87: Middle East & Africa PEM Water Electrolysis Revenue by Type (2026-2032) & (US\$ Million)

Table 88: Middle East & Africa PEM Water Electrolysis Sales by Application (2020-2025) & (Units)

Table 89: Middle East & Africa PEM Water Electrolysis Sales by Application (2026-2032) & (Units)

Table 90: Middle East & Africa PEM Water Electrolysis Revenue by Application (2020-2025) & (US\$ Million)

Table 91: Middle East & Africa PEM Water Electrolysis Revenue by Application (2026-2032) & (US\$ Million)

Table 92: Middle East & Africa PEM Water Electrolysis Revenue Market Size by Country (2020-2025) & (US\$ Million)

Table 93: Middle East & Africa PEM Water Electrolysis Revenue Market Size Forecast by Country (2026-2032) & (US\$ Million)

Table 94: Middle East & Africa PEM Water Electrolysis Sales Market Size by Country (2020-2025) & (Units)

Table 95: Middle East & Africa PEM Water Electrolysis Sales Market Size Forecast by Country (2026-2032) & (Units)

Table 96: Global PEM Water Electrolysis Market Sales by Key Manufacturers (2021-2025) & (Units)

Table 97: Global PEM Water Electrolysis Sales Market Share by Key Manufacturers (2021-2025)

Table 98: Global PEM Water Electrolysis Market Revenue by Key Manufacturers (2021-2025) & (US\$ Million)

Table 99: Global PEM Water Electrolysis Revenue Market Share by Key Manufacturers (2021-2025)

Table 100: Global Average Sales Price by Manufacturers (2021-2025) & (USD/Unit)

Table 101: Global Key Manufacturers Headquarter Location and Key Area Sales

Table 102: Market Mergers & Acquisitions, Expansion

Table 103: Proton On-Site Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 104: Proton On-Site PEM Water Electrolysis Product Portfolio

Table 105: Proton On-Site PEM Water Electrolysis Revenue (US\$ Million), Sales (Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 106: 718th Research Institute of CSIC Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 107: 718th Research Institute of CSIC PEM Water Electrolysis Product Portfolio

Table 108: 718th Research Institute of CSIC PEM Water Electrolysis Revenue (US\$ Million), Sales (Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 109: Teledyne Energy Systems Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 110: Teledyne Energy Systems PEM Water Electrolysis Product Portfolio

Table 111: Teledyne Energy Systems PEM Water Electrolysis Revenue (US\$ Million), Sales (Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 112: Hydrogenics Basic Company Profile (Employees, Areas Service,

Competitors and Contact Information)

Table 113: Hydrogenics PEM Water Electrolysis Product Portfolio

Table 114: Hydrogenics PEM Water Electrolysis Revenue (US\$ Million), Sales (Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 115: Nel Hydrogen Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 116: Nel Hydrogen PEM Water Electrolysis Product Portfolio

Table 117: Nel Hydrogen PEM Water Electrolysis Revenue (US\$ Million), Sales (Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 118: Suzhou Jingli Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 119: Suzhou Jingli PEM Water Electrolysis Product Portfolio

Table 120: Suzhou Jingli PEM Water Electrolysis Revenue (US\$ Million), Sales (Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 121: Beijing Zhongdian Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 122: Beijing Zhongdian PEM Water Electrolysis Product Portfolio

Table 123: Beijing Zhongdian PEM Water Electrolysis Revenue (US\$ Million), Sales (Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 124: McPhy Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 125: McPhy PEM Water Electrolysis Product Portfolio

Table 126: McPhy PEM Water Electrolysis Revenue (US\$ Million), Sales (Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 127: Siemens Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 128: Siemens PEM Water Electrolysis Product Portfolio

Table 129: Siemens PEM Water Electrolysis Revenue (US\$ Million), Sales (Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 130: TianJin Mainland Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 131: TianJin Mainland PEM Water Electrolysis Product Portfolio

Table 132: TianJin Mainland PEM Water Electrolysis Revenue (US\$ Million), Sales (Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 133: Areva H2gen Basic Company Profile (Employees, Areas Service, Competitors and Contact Information)

Table 134: Areva H2gen PEM Water Electrolysis Product Portfolio

Table 135: Areva H2gen PEM Water Electrolysis Revenue (US\$ Million), Sales (Units), Price (USD/Unit), Gross Margin and Market Share (2021-2025)

Table 136: Upstream Key Raw Material Price List

Table 137: PEM Water Electrolysis Raw Material Suppliers and Contact Information

Table 138: PEM Water Electrolysis Typical Customer List

Table 139: PEM Water Electrolysis Distributors List

## List Of Figures

### LIST OF FIGURES

Figure 1: PEM Water Electrolysis Product Pictures

Figure 2: Small Electrolyzer (Below 50 /m<sup>3</sup>H<sub>2</sub>/h) Picture Scope

Figure 3: Medium Electrolyzer (50-200 /m<sup>3</sup>H<sub>2</sub>/h) Picture Scope

Figure 4: Large Electrolyzer (Above 200 /m<sup>3</sup>H<sub>2</sub>/h) Picture Scope

Figure 5: Power Plant Picture Scope

Figure 6: Steel Plant Picture Scope

Figure 7: Electronics and Optoelectronics Picture Scope

Figure 8: Others Picture Scope

Figure 9: Global PEM Water Electrolysis Market Size Analysis: 2024 VS 2025 VS 2032 (US\$ Million)

Figure 10: Global PEM Water Electrolysis Market Revenue and Growth Rate Analysis: (2020-2032) & (US\$ Million)

Figure 11: Global PEM Water Electrolysis Market Sales and Growth Rate Analysis (2020-2032) & (Units)

Figure 12: Global PEM Water Electrolysis Market Price Trend Analysis (2020-2032) & (USD/Unit)

Figure 13: Global PEM Water Electrolysis Market Size by Region (2020-2032) & (US\$ Million)

Figure 14: Global PEM Water Electrolysis Market Share Scenario by Region in Percentage: 2025 Versus 2032

Figure 15: Global PEM Water Electrolysis Sales Price by Region (2020-2032) & (Units)

Figure 16: North America PEM Water Electrolysis Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 17: North America PEM Water Electrolysis Revenue Market Share by Players in 2024

Figure 18: North America PEM Water Electrolysis Sales Market Share by Type (2020-2032)

Figure 19: North America PEM Water Electrolysis Revenue Market Share by Type (2020-2032)

Figure 20: North America PEM Water Electrolysis Sales Market Share by Application (2020-2032)

Figure 21: North America PEM Water Electrolysis Revenue Market Share by Application (2020-2032)

Figure 22: US PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)

Figure 23: Canada PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)

Figure 24:Europe PEM Water Electrolysis Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 25:Europe PEM Water Electrolysis Revenue Market Share by Players in 2024

Figure 26:Europe PEM Water Electrolysis Sales Market Share by Type (2020-2032)

Figure 27:Europe PEM Water Electrolysis Revenue Market Share by Type (2020-2032)

Figure 28:Europe PEM Water Electrolysis Sales Market Share by Application (2020-2032)

Figure 29:Europe PEM Water Electrolysis Revenue Market Share by Application (2020-2032)

Figure 30:Germany PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)

Figure 31:France PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)

Figure 32:United Kingdom PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)

Figure 33:Italy PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)

Figure 34:Spain PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)

Figure 35:Benelux PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)

Figure 36:China PEM Water Electrolysis Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 37:China PEM Water Electrolysis Revenue Market Share by Players in 2024

Figure 38:China PEM Water Electrolysis Sales Market Share by Type (2020-2032)

Figure 39:China PEM Water Electrolysis Revenue Market Share by Type (2020-2032)

Figure 40:China PEM Water Electrolysis Sales Market Share by Application (2020-2032)

Figure 41:China PEM Water Electrolysis Revenue Market Share by Application (2020-2032)

Figure 42:APAC (excl. China) PEM Water Electrolysis Market Size and Growth Rate (2020-2032) & (US\$ Million)

Figure 43:APAC (excl. China) PEM Water Electrolysis Revenue Market Share by Players in 2024

Figure 44:APAC (excl. China) PEM Water Electrolysis Sales Market Share by Type (2020-2032)

Figure 45:APAC (excl. China) PEM Water Electrolysis Revenue Market Share by Type (2020-2032)

Figure 46:APAC (excl. China) PEM Water Electrolysis Sales Market Share by Application (2020-2032)

Figure 47:APAC (excl. China) PEM Water Electrolysis Revenue Market Share by Application (2020-2032)

Figure 48:Japan PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)

Figure 49:South Korea PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)

- Figure 50:India PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)
- Figure 51:Australia PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)
- Figure 52:Southeast Asia PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)
- Figure 53:Latin America PEM Water Electrolysis Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 54:Latin America PEM Water Electrolysis Revenue Market Share by Players in 2024
- Figure 55:Latin America PEM Water Electrolysis Sales Market Share by Type (2020-2032)
- Figure 56:Latin America PEM Water Electrolysis Revenue Market Share by Type (2020-2032)
- Figure 57:Latin America PEM Water Electrolysis Sales Market Share by Application (2020-2032)
- Figure 58:Latin America PEM Water Electrolysis Revenue Market Share by Application (2020-2032)
- Figure 59:Mexico PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)
- Figure 60:Brazil PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)
- Figure 61:Middle East & Africa PEM Water Electrolysis Market Size and Growth Rate (2020-2032) & (US\$ Million)
- Figure 62:Middle East & Africa PEM Water Electrolysis Revenue Market Share by Players in 2024
- Figure 63:Middle East & Africa PEM Water Electrolysis Sales Market Share by Type (2020-2032)
- Figure 64:Middle East & Africa PEM Water Electrolysis Revenue Market Share by Type (2020-2032)
- Figure 65:Middle East & Africa PEM Water Electrolysis Sales Market Share by Application (2020-2032)
- Figure 66:Middle East & Africa PEM Water Electrolysis Revenue Market Share by Application (2020-2032)
- Figure 67:Saudi Arabia PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)
- Figure 68:South Africa PEM Water Electrolysis Revenue (2020-2032) & (US\$ Million)
- Figure 69:Global PEM Water Electrolysis Sales Market Share by Key Manufacturers in 2024
- Figure 70:Global PEM Water Electrolysis Revenue Market Share by Key Manufacturers in 2024
- Figure 71:Global PEM Water Electrolysis Industry Competition Landscape
- Figure 72:PEM Water Electrolysis Industry Chain Analysis
- Figure 73:Bottom-Up and Top-Down Research Methods
- Figure 74:Key Interview Objectives

## Figure 75:Data Cross Validation

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