

Global Water Electrolysis Hydrogen Production Membrane Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Water Electrolysis Hydrogen Production Membrane market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

The Electrolysis of water hydrogen production membrane is a key component used in the Electrolysis of water hydrogen production process. Hydrogen production by Electrolysis of water is a process of decomposing Water splitting into hydrogen and oxygen, and hydrogen production membrane by Electrolysis of water is used to separate hydrogen and oxygen. Electrolysis of water hydrogen production membrane usually adopts ion exchange membrane technology. It is a kind of membrane with special structure, which can selectively conduct ions, so as to realize the separation of hydrogen and oxygen. In the process of Electrolysis of water hydrogen production, the Electrolysis of water hydrogen production membrane is placed in the electrolytic cell, which is divided into two adjacent areas: anode area and cathode area. When the current passes through the Electrolysis of water membrane, the water molecule is decomposed into hydrogen ions and oxygen ions. Due to the special structure of Electrolysis of water hydrogen production membrane, only hydrogen ions can pass through the membrane, while oxygen ions are blocked on the other side of the membrane. In this way, hydrogen and oxygen are effectively separated. The performance of Electrolysis of water hydrogen production membrane plays an important role in the efficiency and cost of Electrolysis of water hydrogen production. High quality Electrolysis of water hydrogen production membrane should have high ion conduction performance, good chemical stability and durability, and low resistance and permeability. In addition, the size and shape of the membrane also need to be designed and manufactured according to specific application requirements. Electrolysis of water

hydrogen production membrane has a broad application prospect in renewable energy storage and hydrogen energy industry. It can be used to prepare high-purity hydrogen for fuel cell, chemical industry and other hydrogen energy applications.

This report studies the global Water Electrolysis Hydrogen Production Membrane production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Water Electrolysis Hydrogen Production Membrane, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Water Electrolysis Hydrogen Production Membrane that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Water Electrolysis Hydrogen Production Membrane total production and demand, 2018-2029, (K Sqm)

Global Water Electrolysis Hydrogen Production Membrane total production value, 2018-2029, (USD Million)

Global Water Electrolysis Hydrogen Production Membrane production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (K Sqm)

Global Water Electrolysis Hydrogen Production Membrane consumption by region & country, CAGR, 2018-2029 & (K Sqm)

U.S. VS China: Water Electrolysis Hydrogen Production Membrane domestic production, consumption, key domestic manufacturers and share

Global Water Electrolysis Hydrogen Production Membrane production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (K Sqm)

Global Water Electrolysis Hydrogen Production Membrane production by Type, production, value, CAGR, 2018-2029, (USD Million) & (K Sqm)

Global Water Electrolysis Hydrogen Production Membrane production by Application production, value, CAGR, 2018-2029, (USD Million) & (K Sqm).

This reports profiles key players in the global Water Electrolysis Hydrogen Production Membrane market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NEL Hydrogen, ITM Power, McPhy Energy, Hydrogenics Corporation, Ballard Power Systems, Plug Power, Proton OnSite, Giner ELX and Areva H2Gen, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Water Electrolysis Hydrogen Production Membrane market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) and average price (US\$/Sqm) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Water Electrolysis Hydrogen Production Membrane Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Water Electrolysis Hydrogen Production Membrane Market, Segmentation by Type

Fluorinated Polymer Membrane

Sulfonated Polymer Membrane

Global Water Electrolysis Hydrogen Production Membrane Market, Segmentation by Application

Electronic Industry

Chemical Industry

New Energy Industry

Food Industry

Environmental Protection Industry

Others

Companies Profiled:

NEL Hydrogen

ITM Power

McPhy Energy

Hydrogenics Corporation

Ballard Power Systems

Plug Power

Proton OnSite

Giner ELX

Areva H2Gen

Enapter

Heliocentris Energy Solutions

Loop Energy

Horizon Fuel Cell Technologies

Intelligent Energy

Green Hydrogen Systems

Key Questions Answered

1. How big is the global Water Electrolysis Hydrogen Production Membrane market?
2. What is the demand of the global Water Electrolysis Hydrogen Production Membrane market?
3. What is the year over year growth of the global Water Electrolysis Hydrogen Production Membrane market?
4. What is the production and production value of the global Water Electrolysis Hydrogen Production Membrane market?
5. Who are the key producers in the global Water Electrolysis Hydrogen Production Membrane market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Water Electrolysis Hydrogen Production Membrane Introduction
- 1.2 World Water Electrolysis Hydrogen Production Membrane Supply & Forecast
 - 1.2.1 World Water Electrolysis Hydrogen Production Membrane Production Value (2018 & 2022 & 2029)
 - 1.2.2 World Water Electrolysis Hydrogen Production Membrane Production (2018-2029)
 - 1.2.3 World Water Electrolysis Hydrogen Production Membrane Pricing Trends (2018-2029)
- 1.3 World Water Electrolysis Hydrogen Production Membrane Production by Region (Based on Production Site)
 - 1.3.1 World Water Electrolysis Hydrogen Production Membrane Production Value by Region (2018-2029)
 - 1.3.2 World Water Electrolysis Hydrogen Production Membrane Production by Region (2018-2029)
 - 1.3.3 World Water Electrolysis Hydrogen Production Membrane Average Price by Region (2018-2029)
 - 1.3.4 North America Water Electrolysis Hydrogen Production Membrane Production (2018-2029)
 - 1.3.5 Europe Water Electrolysis Hydrogen Production Membrane Production (2018-2029)
 - 1.3.6 China Water Electrolysis Hydrogen Production Membrane Production (2018-2029)
 - 1.3.7 Japan Water Electrolysis Hydrogen Production Membrane Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Water Electrolysis Hydrogen Production Membrane Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Water Electrolysis Hydrogen Production Membrane Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
 - 1.5.1 Influence of COVID-19
 - 1.5.2 Influence of Russia-Ukraine War

2 DEMAND SUMMARY

- 2.1 World Water Electrolysis Hydrogen Production Membrane Demand (2018-2029)

2.2 World Water Electrolysis Hydrogen Production Membrane Consumption by Region

2.2.1 World Water Electrolysis Hydrogen Production Membrane Consumption by Region (2018-2023)

2.2.2 World Water Electrolysis Hydrogen Production Membrane Consumption Forecast by Region (2024-2029)

2.3 United States Water Electrolysis Hydrogen Production Membrane Consumption (2018-2029)

2.4 China Water Electrolysis Hydrogen Production Membrane Consumption (2018-2029)

2.5 Europe Water Electrolysis Hydrogen Production Membrane Consumption (2018-2029)

2.6 Japan Water Electrolysis Hydrogen Production Membrane Consumption (2018-2029)

2.7 South Korea Water Electrolysis Hydrogen Production Membrane Consumption (2018-2029)

2.8 ASEAN Water Electrolysis Hydrogen Production Membrane Consumption (2018-2029)

2.9 India Water Electrolysis Hydrogen Production Membrane Consumption (2018-2029)

3 WORLD WATER ELECTROLYSIS HYDROGEN PRODUCTION MEMBRANE MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Water Electrolysis Hydrogen Production Membrane Production Value by Manufacturer (2018-2023)

3.2 World Water Electrolysis Hydrogen Production Membrane Production by Manufacturer (2018-2023)

3.3 World Water Electrolysis Hydrogen Production Membrane Average Price by Manufacturer (2018-2023)

3.4 Water Electrolysis Hydrogen Production Membrane Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Water Electrolysis Hydrogen Production Membrane Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Water Electrolysis Hydrogen Production Membrane in 2022

3.5.3 Global Concentration Ratios (CR8) for Water Electrolysis Hydrogen Production Membrane in 2022

3.6 Water Electrolysis Hydrogen Production Membrane Market: Overall Company Footprint Analysis

3.6.1 Water Electrolysis Hydrogen Production Membrane Market: Region Footprint

3.6.2 Water Electrolysis Hydrogen Production Membrane Market: Company Product Type Footprint

3.6.3 Water Electrolysis Hydrogen Production Membrane Market: Company Product Application Footprint

3.7 Competitive Environment

3.7.1 Historical Structure of the Industry

3.7.2 Barriers of Market Entry

3.7.3 Factors of Competition

3.8 New Entrant and Capacity Expansion Plans

3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Water Electrolysis Hydrogen Production Membrane Production Value Comparison

4.1.1 United States VS China: Water Electrolysis Hydrogen Production Membrane Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: Water Electrolysis Hydrogen Production Membrane Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: Water Electrolysis Hydrogen Production Membrane Production Comparison

4.2.1 United States VS China: Water Electrolysis Hydrogen Production Membrane Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: Water Electrolysis Hydrogen Production Membrane Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: Water Electrolysis Hydrogen Production Membrane Consumption Comparison

4.3.1 United States VS China: Water Electrolysis Hydrogen Production Membrane Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: Water Electrolysis Hydrogen Production Membrane Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based Water Electrolysis Hydrogen Production Membrane Manufacturers and Market Share, 2018-2023

4.4.1 United States Based Water Electrolysis Hydrogen Production Membrane Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production Value (2018-2023)

4.4.3 United States Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production (2018-2023)

4.5 China Based Water Electrolysis Hydrogen Production Membrane Manufacturers and Market Share

4.5.1 China Based Water Electrolysis Hydrogen Production Membrane Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production Value (2018-2023)

4.5.3 China Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production (2018-2023)

4.6 Rest of World Based Water Electrolysis Hydrogen Production Membrane Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based Water Electrolysis Hydrogen Production Membrane Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World Water Electrolysis Hydrogen Production Membrane Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 Fluorinated Polymer Membrane

5.2.2 Sulfonated Polymer Membrane

5.3 Market Segment by Type

5.3.1 World Water Electrolysis Hydrogen Production Membrane Production by Type (2018-2029)

5.3.2 World Water Electrolysis Hydrogen Production Membrane Production Value by Type (2018-2029)

5.3.3 World Water Electrolysis Hydrogen Production Membrane Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Water Electrolysis Hydrogen Production Membrane Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Electronic Industry

6.2.2 Chemical Industry

6.2.3 New Energy Industry

6.2.4 Food Industry

6.2.5 Environmental Protection Industry

6.2.6 Others

6.3 Market Segment by Application

6.3.1 World Water Electrolysis Hydrogen Production Membrane Production by Application (2018-2029)

6.3.2 World Water Electrolysis Hydrogen Production Membrane Production Value by Application (2018-2029)

6.3.3 World Water Electrolysis Hydrogen Production Membrane Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 NEL Hydrogen

7.1.1 NEL Hydrogen Details

7.1.2 NEL Hydrogen Major Business

7.1.3 NEL Hydrogen Water Electrolysis Hydrogen Production Membrane Product and Services

7.1.4 NEL Hydrogen Water Electrolysis Hydrogen Production Membrane Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 NEL Hydrogen Recent Developments/Updates

7.1.6 NEL Hydrogen Competitive Strengths & Weaknesses

7.2 ITM Power

7.2.1 ITM Power Details

7.2.2 ITM Power Major Business

7.2.3 ITM Power Water Electrolysis Hydrogen Production Membrane Product and Services

7.2.4 ITM Power Water Electrolysis Hydrogen Production Membrane Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 ITM Power Recent Developments/Updates

7.2.6 ITM Power Competitive Strengths & Weaknesses

7.3 McPhy Energy

7.3.1 McPhy Energy Details

7.3.2 McPhy Energy Major Business

7.3.3 McPhy Energy Water Electrolysis Hydrogen Production Membrane Product and Services

7.3.4 McPhy Energy Water Electrolysis Hydrogen Production Membrane Production, Price, Value, Gross Margin and Market Share (2018-2023)

- 7.3.5 McPhy Energy Recent Developments/Updates
- 7.3.6 McPhy Energy Competitive Strengths & Weaknesses
- 7.4 Hydrogenics Corporation
 - 7.4.1 Hydrogenics Corporation Details
 - 7.4.2 Hydrogenics Corporation Major Business
 - 7.4.3 Hydrogenics Corporation Water Electrolysis Hydrogen Production Membrane Product and Services
 - 7.4.4 Hydrogenics Corporation Water Electrolysis Hydrogen Production Membrane Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.4.5 Hydrogenics Corporation Recent Developments/Updates
 - 7.4.6 Hydrogenics Corporation Competitive Strengths & Weaknesses
- 7.5 Ballard Power Systems
 - 7.5.1 Ballard Power Systems Details
 - 7.5.2 Ballard Power Systems Major Business
 - 7.5.3 Ballard Power Systems Water Electrolysis Hydrogen Production Membrane Product and Services
 - 7.5.4 Ballard Power Systems Water Electrolysis Hydrogen Production Membrane Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.5.5 Ballard Power Systems Recent Developments/Updates
 - 7.5.6 Ballard Power Systems Competitive Strengths & Weaknesses
- 7.6 Plug Power
 - 7.6.1 Plug Power Details
 - 7.6.2 Plug Power Major Business
 - 7.6.3 Plug Power Water Electrolysis Hydrogen Production Membrane Product and Services
 - 7.6.4 Plug Power Water Electrolysis Hydrogen Production Membrane Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.6.5 Plug Power Recent Developments/Updates
 - 7.6.6 Plug Power Competitive Strengths & Weaknesses
- 7.7 Proton OnSite
 - 7.7.1 Proton OnSite Details
 - 7.7.2 Proton OnSite Major Business
 - 7.7.3 Proton OnSite Water Electrolysis Hydrogen Production Membrane Product and Services
 - 7.7.4 Proton OnSite Water Electrolysis Hydrogen Production Membrane Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.7.5 Proton OnSite Recent Developments/Updates
 - 7.7.6 Proton OnSite Competitive Strengths & Weaknesses
- 7.8 Giner ELX

- 7.8.1 Giner ELX Details
- 7.8.2 Giner ELX Major Business
- 7.8.3 Giner ELX Water Electrolysis Hydrogen Production Membrane Product and Services
- 7.8.4 Giner ELX Water Electrolysis Hydrogen Production Membrane Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.8.5 Giner ELX Recent Developments/Updates
- 7.8.6 Giner ELX Competitive Strengths & Weaknesses
- 7.9 Areva H2Gen
 - 7.9.1 Areva H2Gen Details
 - 7.9.2 Areva H2Gen Major Business
 - 7.9.3 Areva H2Gen Water Electrolysis Hydrogen Production Membrane Product and Services
 - 7.9.4 Areva H2Gen Water Electrolysis Hydrogen Production Membrane Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.9.5 Areva H2Gen Recent Developments/Updates
 - 7.9.6 Areva H2Gen Competitive Strengths & Weaknesses
- 7.10 Enapter
 - 7.10.1 Enapter Details
 - 7.10.2 Enapter Major Business
 - 7.10.3 Enapter Water Electrolysis Hydrogen Production Membrane Product and Services
 - 7.10.4 Enapter Water Electrolysis Hydrogen Production Membrane Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.10.5 Enapter Recent Developments/Updates
 - 7.10.6 Enapter Competitive Strengths & Weaknesses
- 7.11 Heliocentris Energy Solutions
 - 7.11.1 Heliocentris Energy Solutions Details
 - 7.11.2 Heliocentris Energy Solutions Major Business
 - 7.11.3 Heliocentris Energy Solutions Water Electrolysis Hydrogen Production Membrane Product and Services
 - 7.11.4 Heliocentris Energy Solutions Water Electrolysis Hydrogen Production Membrane Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.11.5 Heliocentris Energy Solutions Recent Developments/Updates
 - 7.11.6 Heliocentris Energy Solutions Competitive Strengths & Weaknesses
- 7.12 Loop Energy
 - 7.12.1 Loop Energy Details
 - 7.12.2 Loop Energy Major Business
 - 7.12.3 Loop Energy Water Electrolysis Hydrogen Production Membrane Product and

Services

7.12.4 Loop Energy Water Electrolysis Hydrogen Production Membrane Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.12.5 Loop Energy Recent Developments/Updates

7.12.6 Loop Energy Competitive Strengths & Weaknesses

7.13 Horizon Fuel Cell Technologies

7.13.1 Horizon Fuel Cell Technologies Details

7.13.2 Horizon Fuel Cell Technologies Major Business

7.13.3 Horizon Fuel Cell Technologies Water Electrolysis Hydrogen Production Membrane Product and Services

7.13.4 Horizon Fuel Cell Technologies Water Electrolysis Hydrogen Production Membrane Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.13.5 Horizon Fuel Cell Technologies Recent Developments/Updates

7.13.6 Horizon Fuel Cell Technologies Competitive Strengths & Weaknesses

7.14 Intelligent Energy

7.14.1 Intelligent Energy Details

7.14.2 Intelligent Energy Major Business

7.14.3 Intelligent Energy Water Electrolysis Hydrogen Production Membrane Product and Services

7.14.4 Intelligent Energy Water Electrolysis Hydrogen Production Membrane Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.14.5 Intelligent Energy Recent Developments/Updates

7.14.6 Intelligent Energy Competitive Strengths & Weaknesses

7.15 Green Hydrogen Systems

7.15.1 Green Hydrogen Systems Details

7.15.2 Green Hydrogen Systems Major Business

7.15.3 Green Hydrogen Systems Water Electrolysis Hydrogen Production Membrane Product and Services

7.15.4 Green Hydrogen Systems Water Electrolysis Hydrogen Production Membrane Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.15.5 Green Hydrogen Systems Recent Developments/Updates

7.15.6 Green Hydrogen Systems Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

8.1 Water Electrolysis Hydrogen Production Membrane Industry Chain

8.2 Water Electrolysis Hydrogen Production Membrane Upstream Analysis

8.2.1 Water Electrolysis Hydrogen Production Membrane Core Raw Materials

8.2.2 Main Manufacturers of Water Electrolysis Hydrogen Production Membrane Core

Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 Water Electrolysis Hydrogen Production Membrane Production Mode

8.6 Water Electrolysis Hydrogen Production Membrane Procurement Model

8.7 Water Electrolysis Hydrogen Production Membrane Industry Sales Model and Sales Channels

8.7.1 Water Electrolysis Hydrogen Production Membrane Sales Model

8.7.2 Water Electrolysis Hydrogen Production Membrane Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Water Electrolysis Hydrogen Production Membrane Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Water Electrolysis Hydrogen Production Membrane Production Value by Region (2018-2023) & (USD Million)

Table 3. World Water Electrolysis Hydrogen Production Membrane Production Value by Region (2024-2029) & (USD Million)

Table 4. World Water Electrolysis Hydrogen Production Membrane Production Value Market Share by Region (2018-2023)

Table 5. World Water Electrolysis Hydrogen Production Membrane Production Value Market Share by Region (2024-2029)

Table 6. World Water Electrolysis Hydrogen Production Membrane Production by Region (2018-2023) & (K Sqm)

Table 7. World Water Electrolysis Hydrogen Production Membrane Production by Region (2024-2029) & (K Sqm)

Table 8. World Water Electrolysis Hydrogen Production Membrane Production Market Share by Region (2018-2023)

Table 9. World Water Electrolysis Hydrogen Production Membrane Production Market Share by Region (2024-2029)

Table 10. World Water Electrolysis Hydrogen Production Membrane Average Price by Region (2018-2023) & (US\$/Sqm)

Table 11. World Water Electrolysis Hydrogen Production Membrane Average Price by Region (2024-2029) & (US\$/Sqm)

Table 12. Water Electrolysis Hydrogen Production Membrane Major Market Trends

Table 13. World Water Electrolysis Hydrogen Production Membrane Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (K Sqm)

Table 14. World Water Electrolysis Hydrogen Production Membrane Consumption by Region (2018-2023) & (K Sqm)

Table 15. World Water Electrolysis Hydrogen Production Membrane Consumption Forecast by Region (2024-2029) & (K Sqm)

Table 16. World Water Electrolysis Hydrogen Production Membrane Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Water Electrolysis Hydrogen Production Membrane Producers in 2022

Table 18. World Water Electrolysis Hydrogen Production Membrane Production by Manufacturer (2018-2023) & (K Sqm)

Table 19. Production Market Share of Key Water Electrolysis Hydrogen Production Membrane Producers in 2022

Table 20. World Water Electrolysis Hydrogen Production Membrane Average Price by Manufacturer (2018-2023) & (US\$/Sqm)

Table 21. Global Water Electrolysis Hydrogen Production Membrane Company Evaluation Quadrant

Table 22. World Water Electrolysis Hydrogen Production Membrane Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and Water Electrolysis Hydrogen Production Membrane Production Site of Key Manufacturer

Table 24. Water Electrolysis Hydrogen Production Membrane Market: Company Product Type Footprint

Table 25. Water Electrolysis Hydrogen Production Membrane Market: Company Product Application Footprint

Table 26. Water Electrolysis Hydrogen Production Membrane Competitive Factors

Table 27. Water Electrolysis Hydrogen Production Membrane New Entrant and Capacity Expansion Plans

Table 28. Water Electrolysis Hydrogen Production Membrane Mergers & Acquisitions Activity

Table 29. United States VS China Water Electrolysis Hydrogen Production Membrane Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China Water Electrolysis Hydrogen Production Membrane Production Comparison, (2018 & 2022 & 2029) & (K Sqm)

Table 31. United States VS China Water Electrolysis Hydrogen Production Membrane Consumption Comparison, (2018 & 2022 & 2029) & (K Sqm)

Table 32. United States Based Water Electrolysis Hydrogen Production Membrane Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production (2018-2023) & (K Sqm)

Table 36. United States Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production Market Share (2018-2023)

Table 37. China Based Water Electrolysis Hydrogen Production Membrane Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production (2018-2023) & (K Sqm)

Table 41. China Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production Market Share (2018-2023)

Table 42. Rest of World Based Water Electrolysis Hydrogen Production Membrane Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production (2018-2023) & (K Sqm)

Table 46. Rest of World Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production Market Share (2018-2023)

Table 47. World Water Electrolysis Hydrogen Production Membrane Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World Water Electrolysis Hydrogen Production Membrane Production by Type (2018-2023) & (K Sqm)

Table 49. World Water Electrolysis Hydrogen Production Membrane Production by Type (2024-2029) & (K Sqm)

Table 50. World Water Electrolysis Hydrogen Production Membrane Production Value by Type (2018-2023) & (USD Million)

Table 51. World Water Electrolysis Hydrogen Production Membrane Production Value by Type (2024-2029) & (USD Million)

Table 52. World Water Electrolysis Hydrogen Production Membrane Average Price by Type (2018-2023) & (US\$/Sqm)

Table 53. World Water Electrolysis Hydrogen Production Membrane Average Price by Type (2024-2029) & (US\$/Sqm)

Table 54. World Water Electrolysis Hydrogen Production Membrane Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World Water Electrolysis Hydrogen Production Membrane Production by Application (2018-2023) & (K Sqm)

Table 56. World Water Electrolysis Hydrogen Production Membrane Production by Application (2024-2029) & (K Sqm)

Table 57. World Water Electrolysis Hydrogen Production Membrane Production Value by Application (2018-2023) & (USD Million)

Table 58. World Water Electrolysis Hydrogen Production Membrane Production Value

by Application (2024-2029) & (USD Million)

Table 59. World Water Electrolysis Hydrogen Production Membrane Average Price by Application (2018-2023) & (US\$/Sqm)

Table 60. World Water Electrolysis Hydrogen Production Membrane Average Price by Application (2024-2029) & (US\$/Sqm)

Table 61. NEL Hydrogen Basic Information, Manufacturing Base and Competitors

Table 62. NEL Hydrogen Major Business

Table 63. NEL Hydrogen Water Electrolysis Hydrogen Production Membrane Product and Services

Table 64. NEL Hydrogen Water Electrolysis Hydrogen Production Membrane Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. NEL Hydrogen Recent Developments/Updates

Table 66. NEL Hydrogen Competitive Strengths & Weaknesses

Table 67. ITM Power Basic Information, Manufacturing Base and Competitors

Table 68. ITM Power Major Business

Table 69. ITM Power Water Electrolysis Hydrogen Production Membrane Product and Services

Table 70. ITM Power Water Electrolysis Hydrogen Production Membrane Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. ITM Power Recent Developments/Updates

Table 72. ITM Power Competitive Strengths & Weaknesses

Table 73. McPhy Energy Basic Information, Manufacturing Base and Competitors

Table 74. McPhy Energy Major Business

Table 75. McPhy Energy Water Electrolysis Hydrogen Production Membrane Product and Services

Table 76. McPhy Energy Water Electrolysis Hydrogen Production Membrane Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. McPhy Energy Recent Developments/Updates

Table 78. McPhy Energy Competitive Strengths & Weaknesses

Table 79. Hydrogenics Corporation Basic Information, Manufacturing Base and Competitors

Table 80. Hydrogenics Corporation Major Business

Table 81. Hydrogenics Corporation Water Electrolysis Hydrogen Production Membrane Product and Services

Table 82. Hydrogenics Corporation Water Electrolysis Hydrogen Production Membrane Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin

and Market Share (2018-2023)

Table 83. Hydrogenics Corporation Recent Developments/Updates

Table 84. Hydrogenics Corporation Competitive Strengths & Weaknesses

Table 85. Ballard Power Systems Basic Information, Manufacturing Base and Competitors

Table 86. Ballard Power Systems Major Business

Table 87. Ballard Power Systems Water Electrolysis Hydrogen Production Membrane Product and Services

Table 88. Ballard Power Systems Water Electrolysis Hydrogen Production Membrane Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 89. Ballard Power Systems Recent Developments/Updates

Table 90. Ballard Power Systems Competitive Strengths & Weaknesses

Table 91. Plug Power Basic Information, Manufacturing Base and Competitors

Table 92. Plug Power Major Business

Table 93. Plug Power Water Electrolysis Hydrogen Production Membrane Product and Services

Table 94. Plug Power Water Electrolysis Hydrogen Production Membrane Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 95. Plug Power Recent Developments/Updates

Table 96. Plug Power Competitive Strengths & Weaknesses

Table 97. Proton OnSite Basic Information, Manufacturing Base and Competitors

Table 98. Proton OnSite Major Business

Table 99. Proton OnSite Water Electrolysis Hydrogen Production Membrane Product and Services

Table 100. Proton OnSite Water Electrolysis Hydrogen Production Membrane Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 101. Proton OnSite Recent Developments/Updates

Table 102. Proton OnSite Competitive Strengths & Weaknesses

Table 103. Giner ELX Basic Information, Manufacturing Base and Competitors

Table 104. Giner ELX Major Business

Table 105. Giner ELX Water Electrolysis Hydrogen Production Membrane Product and Services

Table 106. Giner ELX Water Electrolysis Hydrogen Production Membrane Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 107. Giner ELX Recent Developments/Updates

Table 108. Giner ELX Competitive Strengths & Weaknesses

Table 109. Areva H2Gen Basic Information, Manufacturing Base and Competitors

Table 110. Areva H2Gen Major Business

Table 111. Areva H2Gen Water Electrolysis Hydrogen Production Membrane Product and Services

Table 112. Areva H2Gen Water Electrolysis Hydrogen Production Membrane Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 113. Areva H2Gen Recent Developments/Updates

Table 114. Areva H2Gen Competitive Strengths & Weaknesses

Table 115. Enapter Basic Information, Manufacturing Base and Competitors

Table 116. Enapter Major Business

Table 117. Enapter Water Electrolysis Hydrogen Production Membrane Product and Services

Table 118. Enapter Water Electrolysis Hydrogen Production Membrane Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 119. Enapter Recent Developments/Updates

Table 120. Enapter Competitive Strengths & Weaknesses

Table 121. Heliocentris Energy Solutions Basic Information, Manufacturing Base and Competitors

Table 122. Heliocentris Energy Solutions Major Business

Table 123. Heliocentris Energy Solutions Water Electrolysis Hydrogen Production Membrane Product and Services

Table 124. Heliocentris Energy Solutions Water Electrolysis Hydrogen Production Membrane Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 125. Heliocentris Energy Solutions Recent Developments/Updates

Table 126. Heliocentris Energy Solutions Competitive Strengths & Weaknesses

Table 127. Loop Energy Basic Information, Manufacturing Base and Competitors

Table 128. Loop Energy Major Business

Table 129. Loop Energy Water Electrolysis Hydrogen Production Membrane Product and Services

Table 130. Loop Energy Water Electrolysis Hydrogen Production Membrane Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 131. Loop Energy Recent Developments/Updates

Table 132. Loop Energy Competitive Strengths & Weaknesses

Table 133. Horizon Fuel Cell Technologies Basic Information, Manufacturing Base and

Competitors

Table 134. Horizon Fuel Cell Technologies Major Business

Table 135. Horizon Fuel Cell Technologies Water Electrolysis Hydrogen Production Membrane Product and Services

Table 136. Horizon Fuel Cell Technologies Water Electrolysis Hydrogen Production Membrane Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 137. Horizon Fuel Cell Technologies Recent Developments/Updates

Table 138. Horizon Fuel Cell Technologies Competitive Strengths & Weaknesses

Table 139. Intelligent Energy Basic Information, Manufacturing Base and Competitors

Table 140. Intelligent Energy Major Business

Table 141. Intelligent Energy Water Electrolysis Hydrogen Production Membrane Product and Services

Table 142. Intelligent Energy Water Electrolysis Hydrogen Production Membrane Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 143. Intelligent Energy Recent Developments/Updates

Table 144. Green Hydrogen Systems Basic Information, Manufacturing Base and Competitors

Table 145. Green Hydrogen Systems Major Business

Table 146. Green Hydrogen Systems Water Electrolysis Hydrogen Production Membrane Product and Services

Table 147. Green Hydrogen Systems Water Electrolysis Hydrogen Production Membrane Production (K Sqm), Price (US\$/Sqm), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 148. Global Key Players of Water Electrolysis Hydrogen Production Membrane Upstream (Raw Materials)

Table 149. Water Electrolysis Hydrogen Production Membrane Typical Customers

Table 150. Water Electrolysis Hydrogen Production Membrane Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Water Electrolysis Hydrogen Production Membrane Picture

Figure 2. World Water Electrolysis Hydrogen Production Membrane Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World Water Electrolysis Hydrogen Production Membrane Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World Water Electrolysis Hydrogen Production Membrane Production (2018-2029) & (K Sqm)

Figure 5. World Water Electrolysis Hydrogen Production Membrane Average Price (2018-2029) & (US\$/Sqm)

Figure 6. World Water Electrolysis Hydrogen Production Membrane Production Value Market Share by Region (2018-2029)

Figure 7. World Water Electrolysis Hydrogen Production Membrane Production Market Share by Region (2018-2029)

Figure 8. North America Water Electrolysis Hydrogen Production Membrane Production (2018-2029) & (K Sqm)

Figure 9. Europe Water Electrolysis Hydrogen Production Membrane Production (2018-2029) & (K Sqm)

Figure 10. China Water Electrolysis Hydrogen Production Membrane Production (2018-2029) & (K Sqm)

Figure 11. Japan Water Electrolysis Hydrogen Production Membrane Production (2018-2029) & (K Sqm)

Figure 12. Water Electrolysis Hydrogen Production Membrane Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Water Electrolysis Hydrogen Production Membrane Consumption (2018-2029) & (K Sqm)

Figure 15. World Water Electrolysis Hydrogen Production Membrane Consumption Market Share by Region (2018-2029)

Figure 16. United States Water Electrolysis Hydrogen Production Membrane Consumption (2018-2029) & (K Sqm)

Figure 17. China Water Electrolysis Hydrogen Production Membrane Consumption (2018-2029) & (K Sqm)

Figure 18. Europe Water Electrolysis Hydrogen Production Membrane Consumption (2018-2029) & (K Sqm)

Figure 19. Japan Water Electrolysis Hydrogen Production Membrane Consumption (2018-2029) & (K Sqm)

Figure 20. South Korea Water Electrolysis Hydrogen Production Membrane Consumption (2018-2029) & (K Sqm)

Figure 21. ASEAN Water Electrolysis Hydrogen Production Membrane Consumption (2018-2029) & (K Sqm)

Figure 22. India Water Electrolysis Hydrogen Production Membrane Consumption (2018-2029) & (K Sqm)

Figure 23. Producer Shipments of Water Electrolysis Hydrogen Production Membrane by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 24. Global Four-firm Concentration Ratios (CR4) for Water Electrolysis Hydrogen Production Membrane Markets in 2022

Figure 25. Global Four-firm Concentration Ratios (CR8) for Water Electrolysis Hydrogen Production Membrane Markets in 2022

Figure 26. United States VS China: Water Electrolysis Hydrogen Production Membrane Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 27. United States VS China: Water Electrolysis Hydrogen Production Membrane Production Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: Water Electrolysis Hydrogen Production Membrane Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production Market Share 2022

Figure 30. China Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production Market Share 2022

Figure 31. Rest of World Based Manufacturers Water Electrolysis Hydrogen Production Membrane Production Market Share 2022

Figure 32. World Water Electrolysis Hydrogen Production Membrane Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 33. World Water Electrolysis Hydrogen Production Membrane Production Value Market Share by Type in 2022

Figure 34. Fluorinated Polymer Membrane

Figure 35. Sulfonated Polymer Membrane

Figure 36. World Water Electrolysis Hydrogen Production Membrane Production Market Share by Type (2018-2029)

Figure 37. World Water Electrolysis Hydrogen Production Membrane Production Value Market Share by Type (2018-2029)

Figure 38. World Water Electrolysis Hydrogen Production Membrane Average Price by Type (2018-2029) & (US\$/Sqm)

Figure 39. World Water Electrolysis Hydrogen Production Membrane Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 40. World Water Electrolysis Hydrogen Production Membrane Production Value

Market Share by Application in 2022

Figure 41. Electronic Industry

Figure 42. Chemical Industry

Figure 43. New Energy Industry

Figure 44. Food Industry

Figure 45. Environmental Protection Industry

Figure 46. Others

Figure 47. World Water Electrolysis Hydrogen Production Membrane Production Market Share by Application (2018-2029)

Figure 48. World Water Electrolysis Hydrogen Production Membrane Production Value Market Share by Application (2018-2029)

Figure 49. World Water Electrolysis Hydrogen Production Membrane Average Price by Application (2018-2029) & (US\$/Sqm)

Figure 50. Water Electrolysis Hydrogen Production Membrane Industry Chain

Figure 51. Water Electrolysis Hydrogen Production Membrane Procurement Model

Figure 52. Water Electrolysis Hydrogen Production Membrane Sales Model

Figure 53. Water Electrolysis Hydrogen Production Membrane Sales Channels, Direct Sales, and Distribution

Figure 54. Methodology

Figure 55. Research Process and Data Source

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