

Global Hydrogen Fuel Cells Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G1EB091C018EN.html>

Date: January 2024

Pages: 134

Price: US\$ 3,480.00 (Single User License)

ID: G1EB091C018EN

Abstracts

According to our (Global Info Research) latest study, the global Hydrogen Fuel Cells market size was valued at USD 3099.2 million in 2023 and is forecast to a readjusted size of USD 16330 million by 2030 with a CAGR of 26.8% during review period.

This report studies the Hydrogen Fuel Cell market, Hydrogen Fuel Cell use hydrogen as a chemical element, and are made into batteries that store energy. The basic principle is the reverse reaction of electrolysis of water, hydrogen and oxygen were supplied to the cathode and anode, hydrogen diffusion through the cathode and the electrolyte reaction, the release of electrons through the external load to reach the anode.

A hydrogen fuel cell is a power plant that utilizes the inverse process of electrolyzed water to generate electricity as well as the only emissions: water. Clean and environmentally friendly, and high energy density, compared to the battery on the market can have a longer battery life.

Global key players are Panasonic, Plug Power, Toshiba ESS etc. Top 3 companies occupied about 60% market share. Asia-Pacific is the largest market with about 45% market share. North America and Europe are follower, accounting for about 50% market share. In terms of product, air-cooled type is the largest segment, with a share over 60%. And in terms of application, the largest application is stationary, followed by transport.

The Global Info Research report includes an overview of the development of the Hydrogen Fuel Cells industry chain, the market status of Distributed Generation (PEMFC, SOFC), Car (PEMFC, SOFC), and key enterprises in developed and

developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Hydrogen Fuel Cells.

Regionally, the report analyzes the Hydrogen Fuel Cells markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Hydrogen Fuel Cells market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Hydrogen Fuel Cells market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Hydrogen Fuel Cells industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (MW), revenue generated, and market share of different by Type (e.g., PEMFC, SOFC).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Hydrogen Fuel Cells market.

Regional Analysis: The report involves examining the Hydrogen Fuel Cells market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Hydrogen Fuel Cells market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Hydrogen Fuel Cells:

Company Analysis: Report covers individual Hydrogen Fuel Cells manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Hydrogen Fuel Cells. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Distributed Generation, Car).

Technology Analysis: Report covers specific technologies relevant to Hydrogen Fuel Cells. It assesses the current state, advancements, and potential future developments in Hydrogen Fuel Cells areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Hydrogen Fuel Cells market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Hydrogen Fuel Cells market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

PEMFC

SOFC

Market segment by Application

Distributed Generation

Car

Ship

Mobile Power Supply

Major players covered

Panasonic

Plug Power

Toshiba ESS

Bloom Energy

Ballard

SinoHytec

Hydrogenics

Honda

Hyundai Mobis

Toyota Denso

Elring Klinger

Bosch/Powercell

Symbio

Pearl Hydrogen

Sunrise Power

Hyster-Yale Group

Advent Technologies

GenCell

Nikola

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Hydrogen Fuel Cells product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hydrogen Fuel Cells, with price, sales, revenue and global market share of Hydrogen Fuel Cells from 2019 to 2024.

Chapter 3, the Hydrogen Fuel Cells competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hydrogen Fuel Cells breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share

and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Hydrogen Fuel Cells market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Hydrogen Fuel Cells.

Chapter 14 and 15, to describe Hydrogen Fuel Cells sales channel, distributors, customers, research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope of Hydrogen Fuel Cells

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global Hydrogen Fuel Cells Consumption Value by Type: 2019 Versus 2023 Versus 2030

1.3.2 PEMFC

1.3.3 SOFC

1.4 Market Analysis by Application

1.4.1 Overview: Global Hydrogen Fuel Cells Consumption Value by Application: 2019 Versus 2023 Versus 2030

1.4.2 Distributed Generation

1.4.3 Car

1.4.4 Ship

1.4.5 Mobile Power Supply

1.5 Global Hydrogen Fuel Cells Market Size & Forecast

1.5.1 Global Hydrogen Fuel Cells Consumption Value (2019 & 2023 & 2030)

1.5.2 Global Hydrogen Fuel Cells Sales Quantity (2019-2030)

1.5.3 Global Hydrogen Fuel Cells Average Price (2019-2030)

2 MANUFACTURERS PROFILES

2.1 Panasonic

2.1.1 Panasonic Details

2.1.2 Panasonic Major Business

2.1.3 Panasonic Hydrogen Fuel Cells Product and Services

2.1.4 Panasonic Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.1.5 Panasonic Recent Developments/Updates

2.2 Plug Power

2.2.1 Plug Power Details

2.2.2 Plug Power Major Business

2.2.3 Plug Power Hydrogen Fuel Cells Product and Services

2.2.4 Plug Power Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.2.5 Plug Power Recent Developments/Updates

2.3 Toshiba ESS

2.3.1 Toshiba ESS Details

2.3.2 Toshiba ESS Major Business

2.3.3 Toshiba ESS Hydrogen Fuel Cells Product and Services

2.3.4 Toshiba ESS Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.3.5 Toshiba ESS Recent Developments/Updates

2.4 Bloom Energy

2.4.1 Bloom Energy Details

2.4.2 Bloom Energy Major Business

2.4.3 Bloom Energy Hydrogen Fuel Cells Product and Services

2.4.4 Bloom Energy Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.4.5 Bloom Energy Recent Developments/Updates

2.5 Ballard

2.5.1 Ballard Details

2.5.2 Ballard Major Business

2.5.3 Ballard Hydrogen Fuel Cells Product and Services

2.5.4 Ballard Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.5.5 Ballard Recent Developments/Updates

2.6 SinoHytec

2.6.1 SinoHytec Details

2.6.2 SinoHytec Major Business

2.6.3 SinoHytec Hydrogen Fuel Cells Product and Services

2.6.4 SinoHytec Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.6.5 SinoHytec Recent Developments/Updates

2.7 Hydrogenics

2.7.1 Hydrogenics Details

2.7.2 Hydrogenics Major Business

2.7.3 Hydrogenics Hydrogen Fuel Cells Product and Services

2.7.4 Hydrogenics Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.7.5 Hydrogenics Recent Developments/Updates

2.8 Honda

2.8.1 Honda Details

2.8.2 Honda Major Business

2.8.3 Honda Hydrogen Fuel Cells Product and Services

2.8.4 Honda Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.8.5 Honda Recent Developments/Updates

2.9 Hyundai Mobis

2.9.1 Hyundai Mobis Details

2.9.2 Hyundai Mobis Major Business

2.9.3 Hyundai Mobis Hydrogen Fuel Cells Product and Services

2.9.4 Hyundai Mobis Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.9.5 Hyundai Mobis Recent Developments/Updates

2.10 Toyota Denso

2.10.1 Toyota Denso Details

2.10.2 Toyota Denso Major Business

2.10.3 Toyota Denso Hydrogen Fuel Cells Product and Services

2.10.4 Toyota Denso Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.10.5 Toyota Denso Recent Developments/Updates

2.11 Elring Klinger

2.11.1 Elring Klinger Details

2.11.2 Elring Klinger Major Business

2.11.3 Elring Klinger Hydrogen Fuel Cells Product and Services

2.11.4 Elring Klinger Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.11.5 Elring Klinger Recent Developments/Updates

2.12 Bosch/Powercell

2.12.1 Bosch/Powercell Details

2.12.2 Bosch/Powercell Major Business

2.12.3 Bosch/Powercell Hydrogen Fuel Cells Product and Services

2.12.4 Bosch/Powercell Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.12.5 Bosch/Powercell Recent Developments/Updates

2.13 Symbio

2.13.1 Symbio Details

2.13.2 Symbio Major Business

2.13.3 Symbio Hydrogen Fuel Cells Product and Services

2.13.4 Symbio Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)

2.13.5 Symbio Recent Developments/Updates

2.14 Pearl Hydrogen

- 2.14.1 Pearl Hydrogen Details
- 2.14.2 Pearl Hydrogen Major Business
- 2.14.3 Pearl Hydrogen Hydrogen Fuel Cells Product and Services
- 2.14.4 Pearl Hydrogen Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
- 2.14.5 Pearl Hydrogen Recent Developments/Updates
- 2.15 Sunrise Power
 - 2.15.1 Sunrise Power Details
 - 2.15.2 Sunrise Power Major Business
 - 2.15.3 Sunrise Power Hydrogen Fuel Cells Product and Services
 - 2.15.4 Sunrise Power Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.15.5 Sunrise Power Recent Developments/Updates
- 2.16 Hyster-Yale Group
 - 2.16.1 Hyster-Yale Group Details
 - 2.16.2 Hyster-Yale Group Major Business
 - 2.16.3 Hyster-Yale Group Hydrogen Fuel Cells Product and Services
 - 2.16.4 Hyster-Yale Group Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.16.5 Hyster-Yale Group Recent Developments/Updates
- 2.17 Advent Technologies
 - 2.17.1 Advent Technologies Details
 - 2.17.2 Advent Technologies Major Business
 - 2.17.3 Advent Technologies Hydrogen Fuel Cells Product and Services
 - 2.17.4 Advent Technologies Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.17.5 Advent Technologies Recent Developments/Updates
- 2.18 GenCell
 - 2.18.1 GenCell Details
 - 2.18.2 GenCell Major Business
 - 2.18.3 GenCell Hydrogen Fuel Cells Product and Services
 - 2.18.4 GenCell Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2019-2024)
 - 2.18.5 GenCell Recent Developments/Updates
- 2.19 Nikola
 - 2.19.1 Nikola Details
 - 2.19.2 Nikola Major Business
 - 2.19.3 Nikola Hydrogen Fuel Cells Product and Services
 - 2.19.4 Nikola Hydrogen Fuel Cells Sales Quantity, Average Price, Revenue, Gross

Margin and Market Share (2019-2024)

2.19.5 Nikola Recent Developments/Updates

3 COMPETITIVE ENVIRONMENT: HYDROGEN FUEL CELLS BY MANUFACTURER

3.1 Global Hydrogen Fuel Cells Sales Quantity by Manufacturer (2019-2024)

3.2 Global Hydrogen Fuel Cells Revenue by Manufacturer (2019-2024)

3.3 Global Hydrogen Fuel Cells Average Price by Manufacturer (2019-2024)

3.4 Market Share Analysis (2023)

3.4.1 Producer Shipments of Hydrogen Fuel Cells by Manufacturer Revenue (\$MM) and Market Share (%): 2023

3.4.2 Top 3 Hydrogen Fuel Cells Manufacturer Market Share in 2023

3.4.2 Top 6 Hydrogen Fuel Cells Manufacturer Market Share in 2023

3.5 Hydrogen Fuel Cells Market: Overall Company Footprint Analysis

3.5.1 Hydrogen Fuel Cells Market: Region Footprint

3.5.2 Hydrogen Fuel Cells Market: Company Product Type Footprint

3.5.3 Hydrogen Fuel Cells Market: Company Product Application Footprint

3.6 New Market Entrants and Barriers to Market Entry

3.7 Mergers, Acquisition, Agreements, and Collaborations

4 CONSUMPTION ANALYSIS BY REGION

4.1 Global Hydrogen Fuel Cells Market Size by Region

4.1.1 Global Hydrogen Fuel Cells Sales Quantity by Region (2019-2030)

4.1.2 Global Hydrogen Fuel Cells Consumption Value by Region (2019-2030)

4.1.3 Global Hydrogen Fuel Cells Average Price by Region (2019-2030)

4.2 North America Hydrogen Fuel Cells Consumption Value (2019-2030)

4.3 Europe Hydrogen Fuel Cells Consumption Value (2019-2030)

4.4 Asia-Pacific Hydrogen Fuel Cells Consumption Value (2019-2030)

4.5 South America Hydrogen Fuel Cells Consumption Value (2019-2030)

4.6 Middle East and Africa Hydrogen Fuel Cells Consumption Value (2019-2030)

5 MARKET SEGMENT BY TYPE

5.1 Global Hydrogen Fuel Cells Sales Quantity by Type (2019-2030)

5.2 Global Hydrogen Fuel Cells Consumption Value by Type (2019-2030)

5.3 Global Hydrogen Fuel Cells Average Price by Type (2019-2030)

6 MARKET SEGMENT BY APPLICATION

- 6.1 Global Hydrogen Fuel Cells Sales Quantity by Application (2019-2030)
- 6.2 Global Hydrogen Fuel Cells Consumption Value by Application (2019-2030)
- 6.3 Global Hydrogen Fuel Cells Average Price by Application (2019-2030)

7 NORTH AMERICA

- 7.1 North America Hydrogen Fuel Cells Sales Quantity by Type (2019-2030)
- 7.2 North America Hydrogen Fuel Cells Sales Quantity by Application (2019-2030)
- 7.3 North America Hydrogen Fuel Cells Market Size by Country
 - 7.3.1 North America Hydrogen Fuel Cells Sales Quantity by Country (2019-2030)
 - 7.3.2 North America Hydrogen Fuel Cells Consumption Value by Country (2019-2030)
 - 7.3.3 United States Market Size and Forecast (2019-2030)
 - 7.3.4 Canada Market Size and Forecast (2019-2030)
 - 7.3.5 Mexico Market Size and Forecast (2019-2030)

8 EUROPE

- 8.1 Europe Hydrogen Fuel Cells Sales Quantity by Type (2019-2030)
- 8.2 Europe Hydrogen Fuel Cells Sales Quantity by Application (2019-2030)
- 8.3 Europe Hydrogen Fuel Cells Market Size by Country
 - 8.3.1 Europe Hydrogen Fuel Cells Sales Quantity by Country (2019-2030)
 - 8.3.2 Europe Hydrogen Fuel Cells Consumption Value by Country (2019-2030)
 - 8.3.3 Germany Market Size and Forecast (2019-2030)
 - 8.3.4 France Market Size and Forecast (2019-2030)
 - 8.3.5 United Kingdom Market Size and Forecast (2019-2030)
 - 8.3.6 Russia Market Size and Forecast (2019-2030)
 - 8.3.7 Italy Market Size and Forecast (2019-2030)

9 ASIA-PACIFIC

- 9.1 Asia-Pacific Hydrogen Fuel Cells Sales Quantity by Type (2019-2030)
- 9.2 Asia-Pacific Hydrogen Fuel Cells Sales Quantity by Application (2019-2030)
- 9.3 Asia-Pacific Hydrogen Fuel Cells Market Size by Region
 - 9.3.1 Asia-Pacific Hydrogen Fuel Cells Sales Quantity by Region (2019-2030)
 - 9.3.2 Asia-Pacific Hydrogen Fuel Cells Consumption Value by Region (2019-2030)
 - 9.3.3 China Market Size and Forecast (2019-2030)
 - 9.3.4 Japan Market Size and Forecast (2019-2030)
 - 9.3.5 Korea Market Size and Forecast (2019-2030)

- 9.3.6 India Market Size and Forecast (2019-2030)
- 9.3.7 Southeast Asia Market Size and Forecast (2019-2030)
- 9.3.8 Australia Market Size and Forecast (2019-2030)

10 SOUTH AMERICA

- 10.1 South America Hydrogen Fuel Cells Sales Quantity by Type (2019-2030)
- 10.2 South America Hydrogen Fuel Cells Sales Quantity by Application (2019-2030)
- 10.3 South America Hydrogen Fuel Cells Market Size by Country
 - 10.3.1 South America Hydrogen Fuel Cells Sales Quantity by Country (2019-2030)
 - 10.3.2 South America Hydrogen Fuel Cells Consumption Value by Country (2019-2030)
 - 10.3.3 Brazil Market Size and Forecast (2019-2030)
 - 10.3.4 Argentina Market Size and Forecast (2019-2030)

11 MIDDLE EAST & AFRICA

- 11.1 Middle East & Africa Hydrogen Fuel Cells Sales Quantity by Type (2019-2030)
- 11.2 Middle East & Africa Hydrogen Fuel Cells Sales Quantity by Application (2019-2030)
- 11.3 Middle East & Africa Hydrogen Fuel Cells Market Size by Country
 - 11.3.1 Middle East & Africa Hydrogen Fuel Cells Sales Quantity by Country (2019-2030)
 - 11.3.2 Middle East & Africa Hydrogen Fuel Cells Consumption Value by Country (2019-2030)
 - 11.3.3 Turkey Market Size and Forecast (2019-2030)
 - 11.3.4 Egypt Market Size and Forecast (2019-2030)
 - 11.3.5 Saudi Arabia Market Size and Forecast (2019-2030)
 - 11.3.6 South Africa Market Size and Forecast (2019-2030)

12 MARKET DYNAMICS

- 12.1 Hydrogen Fuel Cells Market Drivers
- 12.2 Hydrogen Fuel Cells Market Restraints
- 12.3 Hydrogen Fuel Cells Trends Analysis
- 12.4 Porters Five Forces Analysis
 - 12.4.1 Threat of New Entrants
 - 12.4.2 Bargaining Power of Suppliers
 - 12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

13 RAW MATERIAL AND INDUSTRY CHAIN

13.1 Raw Material of Hydrogen Fuel Cells and Key Manufacturers

13.2 Manufacturing Costs Percentage of Hydrogen Fuel Cells

13.3 Hydrogen Fuel Cells Production Process

13.4 Hydrogen Fuel Cells Industrial Chain

14 SHIPMENTS BY DISTRIBUTION CHANNEL

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Hydrogen Fuel Cells Typical Distributors

14.3 Hydrogen Fuel Cells Typical Customers

15 RESEARCH FINDINGS AND CONCLUSION

16 APPENDIX

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Hydrogen Fuel Cells Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Table 2. Global Hydrogen Fuel Cells Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Table 3. Panasonic Basic Information, Manufacturing Base and Competitors

Table 4. Panasonic Major Business

Table 5. Panasonic Hydrogen Fuel Cells Product and Services

Table 6. Panasonic Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 7. Panasonic Recent Developments/Updates

Table 8. Plug Power Basic Information, Manufacturing Base and Competitors

Table 9. Plug Power Major Business

Table 10. Plug Power Hydrogen Fuel Cells Product and Services

Table 11. Plug Power Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 12. Plug Power Recent Developments/Updates

Table 13. Toshiba ESS Basic Information, Manufacturing Base and Competitors

Table 14. Toshiba ESS Major Business

Table 15. Toshiba ESS Hydrogen Fuel Cells Product and Services

Table 16. Toshiba ESS Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 17. Toshiba ESS Recent Developments/Updates

Table 18. Bloom Energy Basic Information, Manufacturing Base and Competitors

Table 19. Bloom Energy Major Business

Table 20. Bloom Energy Hydrogen Fuel Cells Product and Services

Table 21. Bloom Energy Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 22. Bloom Energy Recent Developments/Updates

Table 23. Ballard Basic Information, Manufacturing Base and Competitors

Table 24. Ballard Major Business

Table 25. Ballard Hydrogen Fuel Cells Product and Services

Table 26. Ballard Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 27. Ballard Recent Developments/Updates

Table 28. SinoHytec Basic Information, Manufacturing Base and Competitors

- Table 29. SinoHytec Major Business
- Table 30. SinoHytec Hydrogen Fuel Cells Product and Services
- Table 31. SinoHytec Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 32. SinoHytec Recent Developments/Updates
- Table 33. Hydrogenics Basic Information, Manufacturing Base and Competitors
- Table 34. Hydrogenics Major Business
- Table 35. Hydrogenics Hydrogen Fuel Cells Product and Services
- Table 36. Hydrogenics Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 37. Hydrogenics Recent Developments/Updates
- Table 38. Honda Basic Information, Manufacturing Base and Competitors
- Table 39. Honda Major Business
- Table 40. Honda Hydrogen Fuel Cells Product and Services
- Table 41. Honda Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 42. Honda Recent Developments/Updates
- Table 43. Hyundai Mobis Basic Information, Manufacturing Base and Competitors
- Table 44. Hyundai Mobis Major Business
- Table 45. Hyundai Mobis Hydrogen Fuel Cells Product and Services
- Table 46. Hyundai Mobis Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 47. Hyundai Mobis Recent Developments/Updates
- Table 48. Toyota Denso Basic Information, Manufacturing Base and Competitors
- Table 49. Toyota Denso Major Business
- Table 50. Toyota Denso Hydrogen Fuel Cells Product and Services
- Table 51. Toyota Denso Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 52. Toyota Denso Recent Developments/Updates
- Table 53. Elring Klinger Basic Information, Manufacturing Base and Competitors
- Table 54. Elring Klinger Major Business
- Table 55. Elring Klinger Hydrogen Fuel Cells Product and Services
- Table 56. Elring Klinger Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)
- Table 57. Elring Klinger Recent Developments/Updates
- Table 58. Bosch/Powercell Basic Information, Manufacturing Base and Competitors
- Table 59. Bosch/Powercell Major Business
- Table 60. Bosch/Powercell Hydrogen Fuel Cells Product and Services
- Table 61. Bosch/Powercell Hydrogen Fuel Cells Sales Quantity (MW), Average Price

(USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 62. Bosch/Powercell Recent Developments/Updates

Table 63. Symbio Basic Information, Manufacturing Base and Competitors

Table 64. Symbio Major Business

Table 65. Symbio Hydrogen Fuel Cells Product and Services

Table 66. Symbio Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 67. Symbio Recent Developments/Updates

Table 68. Pearl Hydrogen Basic Information, Manufacturing Base and Competitors

Table 69. Pearl Hydrogen Major Business

Table 70. Pearl Hydrogen Hydrogen Fuel Cells Product and Services

Table 71. Pearl Hydrogen Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 72. Pearl Hydrogen Recent Developments/Updates

Table 73. Sunrise Power Basic Information, Manufacturing Base and Competitors

Table 74. Sunrise Power Major Business

Table 75. Sunrise Power Hydrogen Fuel Cells Product and Services

Table 76. Sunrise Power Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 77. Sunrise Power Recent Developments/Updates

Table 78. Hyster-Yale Group Basic Information, Manufacturing Base and Competitors

Table 79. Hyster-Yale Group Major Business

Table 80. Hyster-Yale Group Hydrogen Fuel Cells Product and Services

Table 81. Hyster-Yale Group Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 82. Hyster-Yale Group Recent Developments/Updates

Table 83. Advent Technologies Basic Information, Manufacturing Base and Competitors

Table 84. Advent Technologies Major Business

Table 85. Advent Technologies Hydrogen Fuel Cells Product and Services

Table 86. Advent Technologies Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 87. Advent Technologies Recent Developments/Updates

Table 88. GenCell Basic Information, Manufacturing Base and Competitors

Table 89. GenCell Major Business

Table 90. GenCell Hydrogen Fuel Cells Product and Services

Table 91. GenCell Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 92. GenCell Recent Developments/Updates

Table 93. Nikola Basic Information, Manufacturing Base and Competitors

Table 94. Nikola Major Business

Table 95. Nikola Hydrogen Fuel Cells Product and Services

Table 96. Nikola Hydrogen Fuel Cells Sales Quantity (MW), Average Price (USD/KW), Revenue (USD Million), Gross Margin and Market Share (2019-2024)

Table 97. Nikola Recent Developments/Updates

Table 98. Global Hydrogen Fuel Cells Sales Quantity by Manufacturer (2019-2024) & (MW)

Table 99. Global Hydrogen Fuel Cells Revenue by Manufacturer (2019-2024) & (USD Million)

Table 100. Global Hydrogen Fuel Cells Average Price by Manufacturer (2019-2024) & (USD/KW)

Table 101. Market Position of Manufacturers in Hydrogen Fuel Cells, (Tier 1, Tier 2, and Tier 3), Based on Consumption Value in 2023

Table 102. Head Office and Hydrogen Fuel Cells Production Site of Key Manufacturer

Table 103. Hydrogen Fuel Cells Market: Company Product Type Footprint

Table 104. Hydrogen Fuel Cells Market: Company Product Application Footprint

Table 105. Hydrogen Fuel Cells New Market Entrants and Barriers to Market Entry

Table 106. Hydrogen Fuel Cells Mergers, Acquisition, Agreements, and Collaborations

Table 107. Global Hydrogen Fuel Cells Sales Quantity by Region (2019-2024) & (MW)

Table 108. Global Hydrogen Fuel Cells Sales Quantity by Region (2025-2030) & (MW)

Table 109. Global Hydrogen Fuel Cells Consumption Value by Region (2019-2024) & (USD Million)

Table 110. Global Hydrogen Fuel Cells Consumption Value by Region (2025-2030) & (USD Million)

Table 111. Global Hydrogen Fuel Cells Average Price by Region (2019-2024) & (USD/KW)

Table 112. Global Hydrogen Fuel Cells Average Price by Region (2025-2030) & (USD/KW)

Table 113. Global Hydrogen Fuel Cells Sales Quantity by Type (2019-2024) & (MW)

Table 114. Global Hydrogen Fuel Cells Sales Quantity by Type (2025-2030) & (MW)

Table 115. Global Hydrogen Fuel Cells Consumption Value by Type (2019-2024) & (USD Million)

Table 116. Global Hydrogen Fuel Cells Consumption Value by Type (2025-2030) & (USD Million)

Table 117. Global Hydrogen Fuel Cells Average Price by Type (2019-2024) & (USD/KW)

Table 118. Global Hydrogen Fuel Cells Average Price by Type (2025-2030) & (USD/KW)

Table 119. Global Hydrogen Fuel Cells Sales Quantity by Application (2019-2024) &

(MW)

Table 120. Global Hydrogen Fuel Cells Sales Quantity by Application (2025-2030) & (MW)

Table 121. Global Hydrogen Fuel Cells Consumption Value by Application (2019-2024) & (USD Million)

Table 122. Global Hydrogen Fuel Cells Consumption Value by Application (2025-2030) & (USD Million)

Table 123. Global Hydrogen Fuel Cells Average Price by Application (2019-2024) & (USD/KW)

Table 124. Global Hydrogen Fuel Cells Average Price by Application (2025-2030) & (USD/KW)

Table 125. North America Hydrogen Fuel Cells Sales Quantity by Type (2019-2024) & (MW)

Table 126. North America Hydrogen Fuel Cells Sales Quantity by Type (2025-2030) & (MW)

Table 127. North America Hydrogen Fuel Cells Sales Quantity by Application (2019-2024) & (MW)

Table 128. North America Hydrogen Fuel Cells Sales Quantity by Application (2025-2030) & (MW)

Table 129. North America Hydrogen Fuel Cells Sales Quantity by Country (2019-2024) & (MW)

Table 130. North America Hydrogen Fuel Cells Sales Quantity by Country (2025-2030) & (MW)

Table 131. North America Hydrogen Fuel Cells Consumption Value by Country (2019-2024) & (USD Million)

Table 132. North America Hydrogen Fuel Cells Consumption Value by Country (2025-2030) & (USD Million)

Table 133. Europe Hydrogen Fuel Cells Sales Quantity by Type (2019-2024) & (MW)

Table 134. Europe Hydrogen Fuel Cells Sales Quantity by Type (2025-2030) & (MW)

Table 135. Europe Hydrogen Fuel Cells Sales Quantity by Application (2019-2024) & (MW)

Table 136. Europe Hydrogen Fuel Cells Sales Quantity by Application (2025-2030) & (MW)

Table 137. Europe Hydrogen Fuel Cells Sales Quantity by Country (2019-2024) & (MW)

Table 138. Europe Hydrogen Fuel Cells Sales Quantity by Country (2025-2030) & (MW)

Table 139. Europe Hydrogen Fuel Cells Consumption Value by Country (2019-2024) & (USD Million)

Table 140. Europe Hydrogen Fuel Cells Consumption Value by Country (2025-2030) & (USD Million)

Table 141. Asia-Pacific Hydrogen Fuel Cells Sales Quantity by Type (2019-2024) & (MW)

Table 142. Asia-Pacific Hydrogen Fuel Cells Sales Quantity by Type (2025-2030) & (MW)

Table 143. Asia-Pacific Hydrogen Fuel Cells Sales Quantity by Application (2019-2024) & (MW)

Table 144. Asia-Pacific Hydrogen Fuel Cells Sales Quantity by Application (2025-2030) & (MW)

Table 145. Asia-Pacific Hydrogen Fuel Cells Sales Quantity by Region (2019-2024) & (MW)

Table 146. Asia-Pacific Hydrogen Fuel Cells Sales Quantity by Region (2025-2030) & (MW)

Table 147. Asia-Pacific Hydrogen Fuel Cells Consumption Value by Region (2019-2024) & (USD Million)

Table 148. Asia-Pacific Hydrogen Fuel Cells Consumption Value by Region (2025-2030) & (USD Million)

Table 149. South America Hydrogen Fuel Cells Sales Quantity by Type (2019-2024) & (MW)

Table 150. South America Hydrogen Fuel Cells Sales Quantity by Type (2025-2030) & (MW)

Table 151. South America Hydrogen Fuel Cells Sales Quantity by Application (2019-2024) & (MW)

Table 152. South America Hydrogen Fuel Cells Sales Quantity by Application (2025-2030) & (MW)

Table 153. South America Hydrogen Fuel Cells Sales Quantity by Country (2019-2024) & (MW)

Table 154. South America Hydrogen Fuel Cells Sales Quantity by Country (2025-2030) & (MW)

Table 155. South America Hydrogen Fuel Cells Consumption Value by Country (2019-2024) & (USD Million)

Table 156. South America Hydrogen Fuel Cells Consumption Value by Country (2025-2030) & (USD Million)

Table 157. Middle East & Africa Hydrogen Fuel Cells Sales Quantity by Type (2019-2024) & (MW)

Table 158. Middle East & Africa Hydrogen Fuel Cells Sales Quantity by Type (2025-2030) & (MW)

Table 159. Middle East & Africa Hydrogen Fuel Cells Sales Quantity by Application (2019-2024) & (MW)

Table 160. Middle East & Africa Hydrogen Fuel Cells Sales Quantity by Application

(2025-2030) & (MW)

Table 161. Middle East & Africa Hydrogen Fuel Cells Sales Quantity by Region

(2019-2024) & (MW)

Table 162. Middle East & Africa Hydrogen Fuel Cells Sales Quantity by Region

(2025-2030) & (MW)

Table 163. Middle East & Africa Hydrogen Fuel Cells Consumption Value by Region

(2019-2024) & (USD Million)

Table 164. Middle East & Africa Hydrogen Fuel Cells Consumption Value by Region

(2025-2030) & (USD Million)

Table 165. Hydrogen Fuel Cells Raw Material

Table 166. Key Manufacturers of Hydrogen Fuel Cells Raw Materials

Table 167. Hydrogen Fuel Cells Typical Distributors

Table 168. Hydrogen Fuel Cells Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. Hydrogen Fuel Cells Picture

Figure 2. Global Hydrogen Fuel Cells Consumption Value by Type, (USD Million), 2019 & 2023 & 2030

Figure 3. Global Hydrogen Fuel Cells Consumption Value Market Share by Type in 2023

Figure 4. PEMFC Examples

Figure 5. SOFC Examples

Figure 6. Global Hydrogen Fuel Cells Consumption Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 7. Global Hydrogen Fuel Cells Consumption Value Market Share by Application in 2023

Figure 8. Distributed Generation Examples

Figure 9. Car Examples

Figure 10. Ship Examples

Figure 11. Mobile Power Supply Examples

Figure 12. Global Hydrogen Fuel Cells Consumption Value, (USD Million): 2019 & 2023 & 2030

Figure 13. Global Hydrogen Fuel Cells Consumption Value and Forecast (2019-2030) & (USD Million)

Figure 14. Global Hydrogen Fuel Cells Sales Quantity (2019-2030) & (MW)

Figure 15. Global Hydrogen Fuel Cells Average Price (2019-2030) & (USD/KW)

Figure 16. Global Hydrogen Fuel Cells Sales Quantity Market Share by Manufacturer in 2023

Figure 17. Global Hydrogen Fuel Cells Consumption Value Market Share by Manufacturer in 2023

Figure 18. Producer Shipments of Hydrogen Fuel Cells by Manufacturer Sales Quantity (\$MM) and Market Share (%): 2023

Figure 19. Top 3 Hydrogen Fuel Cells Manufacturer (Consumption Value) Market Share in 2023

Figure 20. Top 6 Hydrogen Fuel Cells Manufacturer (Consumption Value) Market Share in 2023

Figure 21. Global Hydrogen Fuel Cells Sales Quantity Market Share by Region (2019-2030)

Figure 22. Global Hydrogen Fuel Cells Consumption Value Market Share by Region (2019-2030)

Figure 23. North America Hydrogen Fuel Cells Consumption Value (2019-2030) & (USD Million)

Figure 24. Europe Hydrogen Fuel Cells Consumption Value (2019-2030) & (USD Million)

Figure 25. Asia-Pacific Hydrogen Fuel Cells Consumption Value (2019-2030) & (USD Million)

Figure 26. South America Hydrogen Fuel Cells Consumption Value (2019-2030) & (USD Million)

Figure 27. Middle East & Africa Hydrogen Fuel Cells Consumption Value (2019-2030) & (USD Million)

Figure 28. Global Hydrogen Fuel Cells Sales Quantity Market Share by Type (2019-2030)

Figure 29. Global Hydrogen Fuel Cells Consumption Value Market Share by Type (2019-2030)

Figure 30. Global Hydrogen Fuel Cells Average Price by Type (2019-2030) & (USD/KW)

Figure 31. Global Hydrogen Fuel Cells Sales Quantity Market Share by Application (2019-2030)

Figure 32. Global Hydrogen Fuel Cells Consumption Value Market Share by Application (2019-2030)

Figure 33. Global Hydrogen Fuel Cells Average Price by Application (2019-2030) & (USD/KW)

Figure 34. North America Hydrogen Fuel Cells Sales Quantity Market Share by Type (2019-2030)

Figure 35. North America Hydrogen Fuel Cells Sales Quantity Market Share by Application (2019-2030)

Figure 36. North America Hydrogen Fuel Cells Sales Quantity Market Share by Country (2019-2030)

Figure 37. North America Hydrogen Fuel Cells Consumption Value Market Share by Country (2019-2030)

Figure 38. United States Hydrogen Fuel Cells Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 39. Canada Hydrogen Fuel Cells Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 40. Mexico Hydrogen Fuel Cells Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 41. Europe Hydrogen Fuel Cells Sales Quantity Market Share by Type (2019-2030)

Figure 42. Europe Hydrogen Fuel Cells Sales Quantity Market Share by Application

(2019-2030)

Figure 43. Europe Hydrogen Fuel Cells Sales Quantity Market Share by Country

(2019-2030)

Figure 44. Europe Hydrogen Fuel Cells Consumption Value Market Share by Country

(2019-2030)

Figure 45. Germany Hydrogen Fuel Cells Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 46. France Hydrogen Fuel Cells Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 47. United Kingdom Hydrogen Fuel Cells Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 48. Russia Hydrogen Fuel Cells Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 49. Italy Hydrogen Fuel Cells Consumption Value and Growth Rate (2019-2030)

& (USD Million)

Figure 50. Asia-Pacific Hydrogen Fuel Cells Sales Quantity Market Share by Type

(2019-2030)

Figure 51. Asia-Pacific Hydrogen Fuel Cells Sales Quantity Market Share by Application

(2019-2030)

Figure 52. Asia-Pacific Hydrogen Fuel Cells Sales Quantity Market Share by Region

(2019-2030)

Figure 53. Asia-Pacific Hydrogen Fuel Cells Consumption Value Market Share by

Region (2019-2030)

Figure 54. China Hydrogen Fuel Cells Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 55. Japan Hydrogen Fuel Cells Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 56. Korea Hydrogen Fuel Cells Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 57. India Hydrogen Fuel Cells Consumption Value and Growth Rate (2019-2030)

& (USD Million)

Figure 58. Southeast Asia Hydrogen Fuel Cells Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 59. Australia Hydrogen Fuel Cells Consumption Value and Growth Rate

(2019-2030) & (USD Million)

Figure 60. South America Hydrogen Fuel Cells Sales Quantity Market Share by Type

(2019-2030)

Figure 61. South America Hydrogen Fuel Cells Sales Quantity Market Share by

Application (2019-2030)

Figure 62. South America Hydrogen Fuel Cells Sales Quantity Market Share by Country (2019-2030)

Figure 63. South America Hydrogen Fuel Cells Consumption Value Market Share by Country (2019-2030)

Figure 64. Brazil Hydrogen Fuel Cells Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 65. Argentina Hydrogen Fuel Cells Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 66. Middle East & Africa Hydrogen Fuel Cells Sales Quantity Market Share by Type (2019-2030)

Figure 67. Middle East & Africa Hydrogen Fuel Cells Sales Quantity Market Share by Application (2019-2030)

Figure 68. Middle East & Africa Hydrogen Fuel Cells Sales Quantity Market Share by Region (2019-2030)

Figure 69. Middle East & Africa Hydrogen Fuel Cells Consumption Value Market Share by Region (2019-2030)

Figure 70. Turkey Hydrogen Fuel Cells Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 71. Egypt Hydrogen Fuel Cells Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 72. Saudi Arabia Hydrogen Fuel Cells Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 73. South Africa Hydrogen Fuel Cells Consumption Value and Growth Rate (2019-2030) & (USD Million)

Figure 74. Hydrogen Fuel Cells Market Drivers

Figure 75. Hydrogen Fuel Cells Market Restraints

Figure 76. Hydrogen Fuel Cells Market Trends

Figure 77. Porters Five Forces Analysis

Figure 78. Manufacturing Cost Structure Analysis of Hydrogen Fuel Cells in 2023

Figure 79. Manufacturing Process Analysis of Hydrogen Fuel Cells

Figure 80. Hydrogen Fuel Cells Industrial Chain

Figure 81. Sales Quantity Channel: Direct to End-User vs Distributors

Figure 82. Direct Channel Pros & Cons

Figure 83. Indirect Channel Pros & Cons

Figure 84. Methodology

Figure 85. Research Process and Data Source

I would like to order

Product name: Global Hydrogen Fuel Cells Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

Product link: <https://marketpublishers.com/r/G1EB091C018EN.html>

Price: US\$ 3,480.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G1EB091C018EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

