

# Global Hydrogen and Fuel Cells Market Analysis and Forecast 2024-2030

<https://marketpublishers.com/r/GD61845E2255EN.html>

Date: April 2024

Pages: 214

Price: US\$ 4,950.00 (Single User License)

ID: GD61845E2255EN

## Abstracts

### Summary

Hydrogen and Fuel Cells 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.

According to APO Research, The global Hydrogen and Fuel Cells market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

The US & Canada market for Hydrogen and Fuel Cells is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Asia-Pacific market for Hydrogen and Fuel Cells is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

The China market for Hydrogen and Fuel Cells is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025 through 2030.

Europe market for Hydrogen and Fuel Cells is estimated to increase from \$ million in 2024 to reach \$ million by 2030, at a CAGR of % during the forecast period of 2025

through 2030.

The major global manufacturers of Hydrogen and Fuel Cells include Panasonic, Plug Power, Toshiba ESS, Ballard, SinoHytec, Hydrogenics, Honda, Hyundai Mobis and Toyota Denso, etc. In 2023, the world's top three vendors accounted for approximately % of the revenue.

In terms of production side, this report researches the Hydrogen and Fuel Cells production, growth rate, market share by manufacturers and by region (region level and country level), from 2019 to 2024, and forecast to 2030.

In terms of consumption side, this report focuses on the sales of Hydrogen and Fuel Cells by region (region level and country level), by Company, by Type and by Application. from 2019 to 2024 and forecast to 2030.

This report presents an overview of global market for Hydrogen and Fuel Cells, capacity, output, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Hydrogen and Fuel Cells, also provides the consumption of main regions and countries. Of the upcoming market potential for Hydrogen and Fuel Cells, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Hydrogen and Fuel Cells sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Hydrogen and Fuel Cells market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by Type and by Application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Hydrogen and Fuel Cells sales, projected growth trends, production technology, application and end-user industry.

## Hydrogen and Fuel Cells segment by Company

Panasonic

Plug Power

Toshiba ESS

Ballard

SinoHytec

Hydrogenics

Honda

Hyundai Mobis

Toyota Denso

Elring Klinger

Bosch/Powercell

Symbio

## Hydrogen and Fuel Cells segment by Type

Air-Cooled

Water-Cooled

## Hydrogen and Fuel Cells segment by Application

Stationary

Transport

Portable

## Hydrogen and Fuel Cells segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

## Study Objectives

1. To analyze and research the global status and future forecast, involving, production, value, consumption, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, capacity, production, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify significant trends, drivers, influence factors in global and regions.
6. To analyze competitive developments such as expansions, agreements, new product

launches, and acquisitions in the market.

### Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Hydrogen and Fuel Cells market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Hydrogen and Fuel Cells and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market.
5. This report helps stakeholders to gain insights into which regions to target globally.
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Hydrogen and Fuel Cells.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

### Chapter Outline

Chapter 1: Introduces the report scope of the report, executive summary of different market segments (by type and by application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 2: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 3: Hydrogen and Fuel Cells production/output of global and key producers (regions/countries). It provides a quantitative analysis of the production, and development potential of each producer in the next six years.

Chapter 4: Sales (consumption), revenue of Hydrogen and Fuel Cells in global, regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space of each country in the world.

Chapter 5: Detailed analysis of Hydrogen and Fuel Cells manufacturers competitive landscape, price, sales, revenue, market share and industry ranking, latest development plan, merger, and acquisition information, etc.

Chapter 6: Provides the analysis of various market segments by type, covering the sales, revenue, average price, and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7: Provides the analysis of various market segments by application, covering the sales, revenue, average price, and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8: Provides profiles of key manufacturers, introducing the basic situation of the main companies in the market in detail, including product descriptions and specifications, Hydrogen and Fuel Cells sales, revenue, price, gross margin, and recent development, etc.

Chapter 9: North America (US & Canada) by type, by application and by country, sales, and revenue for each segment.

Chapter 10: Europe by type, by application and by country, sales, and revenue for each segment.

Chapter 11: China by type, by application, sales, and revenue for each segment.

Chapter 12: Asia (Excluding China) by type, by application and by region, sales, and revenue for each segment.

Chapter 13: Middle East, Africa, Latin America by type, by application and by country, sales, and revenue for each segment.

Chapter 14: Analysis of industrial chain, sales channel, key raw materials, distributors and customers.

Chapter 15: The main concluding insights of the report.



## Contents

### **1 MARKET OVERVIEW**

- 1.1 Product Definition
- 1.2 Hydrogen and Fuel Cells Market by Type
  - 1.2.1 Global Hydrogen and Fuel Cells Market Size by Type, 2019 VS 2023 VS 2030
  - 1.2.2 Air-Cooled
  - 1.2.3 Water-Cooled
- 1.3 Hydrogen and Fuel Cells Market by Application
  - 1.3.1 Global Hydrogen and Fuel Cells Market Size by Application, 2019 VS 2023 VS 2030
  - 1.3.2 Stationary
  - 1.3.3 Transport
  - 1.3.4 Portable
- 1.4 Assumptions and Limitations
- 1.5 Study Goals and Objectives

### **2 HYDROGEN AND FUEL CELLS MARKET DYNAMICS**

- 2.1 Hydrogen and Fuel Cells Industry Trends
- 2.2 Hydrogen and Fuel Cells Industry Drivers
- 2.3 Hydrogen and Fuel Cells Industry Opportunities and Challenges
- 2.4 Hydrogen and Fuel Cells Industry Restraints

### **3 GLOBAL HYDROGEN AND FUEL CELLS PRODUCTION OVERVIEW**

- 3.1 Global Hydrogen and Fuel Cells Production Capacity (2019-2030)
- 3.2 Global Hydrogen and Fuel Cells Production by Region: 2019 VS 2023 VS 2030
- 3.3 Global Hydrogen and Fuel Cells Production by Region
  - 3.3.1 Global Hydrogen and Fuel Cells Production by Region (2019-2024)
  - 3.3.2 Global Hydrogen and Fuel Cells Production by Region (2025-2030)
  - 3.3.3 Global Hydrogen and Fuel Cells Production Market Share by Region (2019-2030)
- 3.4 North America
- 3.5 Europe
- 3.6 China
- 3.7 Japan
- 3.8 South Korea

## **4 GLOBAL MARKET GROWTH PROSPECTS**

- 4.1 Global Hydrogen and Fuel Cells Revenue Estimates and Forecasts (2019-2030)
- 4.2 Global Hydrogen and Fuel Cells Revenue by Region
  - 4.2.1 Global Hydrogen and Fuel Cells Revenue by Region: 2019 VS 2023 VS 2030
  - 4.2.2 Global Hydrogen and Fuel Cells Revenue by Region (2019-2024)
  - 4.2.3 Global Hydrogen and Fuel Cells Revenue by Region (2025-2030)
  - 4.2.4 Global Hydrogen and Fuel Cells Revenue Market Share by Region (2019-2030)
- 4.3 Global Hydrogen and Fuel Cells Sales Estimates and Forecasts 2019-2030
- 4.4 Global Hydrogen and Fuel Cells Sales by Region
  - 4.4.1 Global Hydrogen and Fuel Cells Sales by Region: 2019 VS 2023 VS 2030
  - 4.4.2 Global Hydrogen and Fuel Cells Sales by Region (2019-2024)
  - 4.4.3 Global Hydrogen and Fuel Cells Sales by Region (2025-2030)
  - 4.4.4 Global Hydrogen and Fuel Cells Sales Market Share by Region (2019-2030)
- 4.5 US & Canada
- 4.6 Europe
- 4.7 China
- 4.8 Asia (Excluding China)
- 4.9 Middle East, Africa and Latin America

## **5 MARKET COMPETITIVE LANDSCAPE BY MANUFACTURERS**

- 5.1 Global Hydrogen and Fuel Cells Revenue by Manufacturers
  - 5.1.1 Global Hydrogen and Fuel Cells Revenue by Manufacturers (2019-2024)
  - 5.1.2 Global Hydrogen and Fuel Cells Revenue Market Share by Manufacturers (2019-2024)
  - 5.1.3 Global Hydrogen and Fuel Cells Manufacturers Revenue Share Top 10 and Top 5 in 2023
- 5.2 Global Hydrogen and Fuel Cells Sales by Manufacturers
  - 5.2.1 Global Hydrogen and Fuel Cells Sales by Manufacturers (2019-2024)
  - 5.2.2 Global Hydrogen and Fuel Cells Sales Market Share by Manufacturers (2019-2024)
  - 5.2.3 Global Hydrogen and Fuel Cells Manufacturers Sales Share Top 10 and Top 5 in 2023
- 5.3 Global Hydrogen and Fuel Cells Sales Price by Manufacturers (2019-2024)
- 5.4 Global Hydrogen and Fuel Cells Key Manufacturers Ranking, 2022 VS 2023 VS 2024
- 5.5 Global Hydrogen and Fuel Cells Key Manufacturers Manufacturing Sites &

## Headquarters

5.6 Global Hydrogen and Fuel Cells Manufacturers, Product Type & Application

5.7 Global Hydrogen and Fuel Cells Manufacturers Commercialization Time

5.8 Market Competitive Analysis

5.8.1 Global Hydrogen and Fuel Cells Market CR5 and HHI

5.8.2 2023 Hydrogen and Fuel Cells Tier 1, Tier 2, and Tier

## **6 HYDROGEN AND FUEL CELLS MARKET BY TYPE**

6.1 Global Hydrogen and Fuel Cells Revenue by Type

6.1.1 Global Hydrogen and Fuel Cells Revenue by Type (2019 VS 2023 VS 2030)

6.1.2 Global Hydrogen and Fuel Cells Revenue by Type (2019-2030) & (US\$ Million)

6.1.3 Global Hydrogen and Fuel Cells Revenue Market Share by Type (2019-2030)

6.2 Global Hydrogen and Fuel Cells Sales by Type

6.2.1 Global Hydrogen and Fuel Cells Sales by Type (2019 VS 2023 VS 2030)

6.2.2 Global Hydrogen and Fuel Cells Sales by Type (2019-2030) & (MW)

6.2.3 Global Hydrogen and Fuel Cells Sales Market Share by Type (2019-2030)

6.3 Global Hydrogen and Fuel Cells Price by Type

## **7 HYDROGEN AND FUEL CELLS MARKET BY APPLICATION**

7.1 Global Hydrogen and Fuel Cells Revenue by Application

7.1.1 Global Hydrogen and Fuel Cells Revenue by Application (2019 VS 2023 VS 2030)

7.1.2 Global Hydrogen and Fuel Cells Revenue by Application (2019-2030) & (US\$ Million)

7.1.3 Global Hydrogen and Fuel Cells Revenue Market Share by Application (2019-2030)

7.2 Global Hydrogen and Fuel Cells Sales by Application

7.2.1 Global Hydrogen and Fuel Cells Sales by Application (2019 VS 2023 VS 2030)

7.2.2 Global Hydrogen and Fuel Cells Sales by Application (2019-2030) & (MW)

7.2.3 Global Hydrogen and Fuel Cells Sales Market Share by Application (2019-2030)

7.3 Global Hydrogen and Fuel Cells Price by Application

## **8 COMPANY PROFILES**

8.1 Panasonic

8.1.1 Panasonic Company Information

8.1.2 Panasonic Business Overview

8.1.3 Panasonic Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)

8.1.4 Panasonic Hydrogen and Fuel Cells Product Portfolio

8.1.5 Panasonic Recent Developments

8.2 Plug Power

8.2.1 Plug Power Company Information

8.2.2 Plug Power Business Overview

8.2.3 Plug Power Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)

8.2.4 Plug Power Hydrogen and Fuel Cells Product Portfolio

8.2.5 Plug Power Recent Developments

8.3 Toshiba ESS

8.3.1 Toshiba ESS Company Information

8.3.2 Toshiba ESS Business Overview

8.3.3 Toshiba ESS Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)

8.3.4 Toshiba ESS Hydrogen and Fuel Cells Product Portfolio

8.3.5 Toshiba ESS Recent Developments

8.4 Ballard

8.4.1 Ballard Company Information

8.4.2 Ballard Business Overview

8.4.3 Ballard Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)

8.4.4 Ballard Hydrogen and Fuel Cells Product Portfolio

8.4.5 Ballard Recent Developments

8.5 SinoHytec

8.5.1 SinoHytec Company Information

8.5.2 SinoHytec Business Overview

8.5.3 SinoHytec Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)

8.5.4 SinoHytec Hydrogen and Fuel Cells Product Portfolio

8.5.5 SinoHytec Recent Developments

8.6 Hydrogenics

8.6.1 Hydrogenics Company Information

8.6.2 Hydrogenics Business Overview

8.6.3 Hydrogenics Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)

8.6.4 Hydrogenics Hydrogen and Fuel Cells Product Portfolio

8.6.5 Hydrogenics Recent Developments

## 8.7 Honda

8.7.1 Honda Company Information

8.7.2 Honda Business Overview

8.7.3 Honda Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)

8.7.4 Honda Hydrogen and Fuel Cells Product Portfolio

8.7.5 Honda Recent Developments

## 8.8 Hyundai Mobis

8.8.1 Hyundai Mobis Company Information

8.8.2 Hyundai Mobis Business Overview

8.8.3 Hyundai Mobis Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)

8.8.4 Hyundai Mobis Hydrogen and Fuel Cells Product Portfolio

8.8.5 Hyundai Mobis Recent Developments

## 8.9 Toyota Denso

8.9.1 Toyota Denso Company Information

8.9.2 Toyota Denso Business Overview

8.9.3 Toyota Denso Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)

8.9.4 Toyota Denso Hydrogen and Fuel Cells Product Portfolio

8.9.5 Toyota Denso Recent Developments

## 8.10 Elring Klinger

8.10.1 Elring Klinger Company Information

8.10.2 Elring Klinger Business Overview

8.10.3 Elring Klinger Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)

8.10.4 Elring Klinger Hydrogen and Fuel Cells Product Portfolio

8.10.5 Elring Klinger Recent Developments

## 8.11 Bosch/Powercell

8.11.1 Bosch/Powercell Company Information

8.11.2 Bosch/Powercell Business Overview

8.11.3 Bosch/Powercell Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)

8.11.4 Bosch/Powercell Hydrogen and Fuel Cells Product Portfolio

8.11.5 Bosch/Powercell Recent Developments

## 8.12 Symbio

8.12.1 Symbio Company Information

8.12.2 Symbio Business Overview

8.12.3 Symbio Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin

(2019-2024)

8.12.4 Symbio Hydrogen and Fuel Cells Product Portfolio

8.12.5 Symbio Recent Developments

## **9 NORTH AMERICA**

9.1 North America Hydrogen and Fuel Cells Market Size by Type

9.1.1 North America Hydrogen and Fuel Cells Revenue by Type (2019-2030)

9.1.2 North America Hydrogen and Fuel Cells Sales by Type (2019-2030)

9.1.3 North America Hydrogen and Fuel Cells Price by Type (2019-2030)

9.2 North America Hydrogen and Fuel Cells Market Size by Application

9.2.1 North America Hydrogen and Fuel Cells Revenue by Application (2019-2030)

9.2.2 North America Hydrogen and Fuel Cells Sales by Application (2019-2030)

9.2.3 North America Hydrogen and Fuel Cells Price by Application (2019-2030)

9.3 North America Hydrogen and Fuel Cells Market Size by Country

9.3.1 North America Hydrogen and Fuel Cells Revenue Grow Rate by Country (2019 VS 2023 VS 2030)

9.3.2 North America Hydrogen and Fuel Cells Sales by Country (2019 VS 2023 VS 2030)

9.3.3 North America Hydrogen and Fuel Cells Price by Country (2019-2030)

9.3.4 U.S.

9.3.5 Canada

## **10 EUROPE**

10.1 Europe Hydrogen and Fuel Cells Market Size by Type

10.1.1 Europe Hydrogen and Fuel Cells Revenue by Type (2019-2030)

10.1.2 Europe Hydrogen and Fuel Cells Sales by Type (2019-2030)

10.1.3 Europe Hydrogen and Fuel Cells Price by Type (2019-2030)

10.2 Europe Hydrogen and Fuel Cells Market Size by Application

10.2.1 Europe Hydrogen and Fuel Cells Revenue by Application (2019-2030)

10.2.2 Europe Hydrogen and Fuel Cells Sales by Application (2019-2030)

10.2.3 Europe Hydrogen and Fuel Cells Price by Application (2019-2030)

10.3 Europe Hydrogen and Fuel Cells Market Size by Country

10.3.1 Europe Hydrogen and Fuel Cells Revenue Grow Rate by Country (2019 VS 2023 VS 2030)

10.3.2 Europe Hydrogen and Fuel Cells Sales by Country (2019 VS 2023 VS 2030)

10.3.3 Europe Hydrogen and Fuel Cells Price by Country (2019-2030)

10.3.4 Germany

- 10.3.5 France
- 10.3.6 U.K.
- 10.3.7 Italy
- 10.3.8 Russia

## **11 CHINA**

- 11.1 China Hydrogen and Fuel Cells Market Size by Type
  - 11.1.1 China Hydrogen and Fuel Cells Revenue by Type (2019-2030)
  - 11.1.2 China Hydrogen and Fuel Cells Sales by Type (2019-2030)
  - 11.1.3 China Hydrogen and Fuel Cells Price by Type (2019-2030)
- 11.2 China Hydrogen and Fuel Cells Market Size by Application
  - 11.2.1 China Hydrogen and Fuel Cells Revenue by Application (2019-2030)
  - 11.2.2 China Hydrogen and Fuel Cells Sales by Application (2019-2030)
  - 11.2.3 China Hydrogen and Fuel Cells Price by Application (2019-2030)

## **12 ASIA (EXCLUDING CHINA)**

- 12.1 Asia Hydrogen and Fuel Cells Market Size by Type
  - 12.1.1 Asia Hydrogen and Fuel Cells Revenue by Type (2019-2030)
  - 12.1.2 Asia Hydrogen and Fuel Cells Sales by Type (2019-2030)
  - 12.1.3 Asia Hydrogen and Fuel Cells Price by Type (2019-2030)
- 12.2 Asia Hydrogen and Fuel Cells Market Size by Application
  - 12.2.1 Asia Hydrogen and Fuel Cells Revenue by Application (2019-2030)
  - 12.2.2 Asia Hydrogen and Fuel Cells Sales by Application (2019-2030)
  - 12.2.3 Asia Hydrogen and Fuel Cells Price by Application (2019-2030)
- 12.3 Asia Hydrogen and Fuel Cells Market Size by Country
  - 12.3.1 Asia Hydrogen and Fuel Cells Revenue Grow Rate by Country (2019 VS 2023 VS 2030)
  - 12.3.2 Asia Hydrogen and Fuel Cells Sales by Country (2019 VS 2023 VS 2030)
  - 12.3.3 Asia Hydrogen and Fuel Cells Price by Country (2019-2030)
  - 12.3.4 Japan
  - 12.3.5 South Korea
  - 12.3.6 India
  - 12.3.7 Australia
  - 12.3.8 China Taiwan
  - 12.3.9 Southeast Asia

## **13 MIDDLE EAST, AFRICA AND LATIN AMERICA**

### 13.1 Middle East, Africa and Latin America Hydrogen and Fuel Cells Market Size by Type

13.1.1 Middle East, Africa and Latin America Hydrogen and Fuel Cells Revenue by Type (2019-2030)

13.1.2 Middle East, Africa and Latin America Hydrogen and Fuel Cells Sales by Type (2019-2030)

13.1.3 Middle East, Africa and Latin America Hydrogen and Fuel Cells Price by Type (2019-2030)

### 13.2 Middle East, Africa and Latin America Hydrogen and Fuel Cells Market Size by Application

13.2.1 Middle East, Africa and Latin America Hydrogen and Fuel Cells Revenue by Application (2019-2030)

13.2.2 Middle East, Africa and Latin America Hydrogen and Fuel Cells Sales by Application (2019-2030)

13.2.3 Middle East, Africa and Latin America Hydrogen and Fuel Cells Price by Application (2019-2030)

### 13.3 Middle East, Africa and Latin America Hydrogen and Fuel Cells Market Size by Country

13.3.1 Middle East, Africa and Latin America Hydrogen and Fuel Cells Revenue Growth Rate by Country (2019 VS 2023 VS 2030)

13.3.2 Middle East, Africa and Latin America Hydrogen and Fuel Cells Sales by Country (2019 VS 2023 VS 2030)

13.3.3 Middle East, Africa and Latin America Hydrogen and Fuel Cells Price by Country (2019-2030)

13.3.4 Mexico

13.3.5 Brazil

13.3.6 Israel

13.3.7 Argentina

13.3.8 Colombia

13.3.9 Turkey

13.3.10 Saudi Arabia

13.3.11 UAE

## 14 VALUE CHAIN AND SALES CHANNELS ANALYSIS

### 14.1 Hydrogen and Fuel Cells Value Chain Analysis

14.1.1 Hydrogen and Fuel Cells Key Raw Materials

14.1.2 Raw Materials Key Suppliers



- 14.1.3 Manufacturing Cost Structure
- 14.1.4 Hydrogen and Fuel Cells Production Mode & Process
- 14.2 Hydrogen and Fuel Cells Sales Channels Analysis
  - 14.2.1 Direct Comparison with Distribution Share
  - 14.2.2 Hydrogen and Fuel Cells Distributors
  - 14.2.3 Hydrogen and Fuel Cells Customers

## **15 CONCLUDING INSIGHTS**

## **16 APPENDIX**

- 16.1 Reasons for Doing This Study
- 16.2 Research Methodology
- 16.3 Research Process
- 16.4 Authors List of This Report
- 16.5 Data Source
  - 16.5.1 Secondary Sources
  - 16.5.2 Primary Sources
- 16.6 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Hydrogen and Fuel Cells Market Size Growth Rate by Type (US\$ Million), 2019 VS 2023 VS 2030

Table 2. Global Hydrogen and Fuel Cells Market Size Growth Rate by Type (US\$ Million), 2019 VS 2023 VS 2030

Table 3. Air-Cooled Major Manufacturers

Table 4. Water-Cooled Major Manufacturers

Table 5. Global Hydrogen and Fuel Cells Market Size Growth Rate by Application (US\$ Million), 2019 VS 2023 VS 2030

Table 6. Stationary Major Manufacturers

Table 7. Transport Major Manufacturers

Table 8. Portable Major Manufacturers

Table 9. Hydrogen and Fuel Cells Industry Trends

Table 10. Hydrogen and Fuel Cells Industry Drivers

Table 11. Hydrogen and Fuel Cells Industry Opportunities and Challenges

Table 12. Hydrogen and Fuel Cells Industry Restraints

Table 13. Global Hydrogen and Fuel Cells Production Growth Rate (CAGR) by Region: 2019 VS 2023 VS 2030 (MW)

Table 14. Global Hydrogen and Fuel Cells Production by Region (2019-2024) & (MW)

Table 15. Global Hydrogen and Fuel Cells Production by Region (2025-2030) & (MW)

Table 16. Global Hydrogen and Fuel Cells Production Market Share by Region (2019-2024)

Table 17. Global Hydrogen and Fuel Cells Production Market Share by Region (2025-2030)

Table 18. Global Hydrogen and Fuel Cells Revenue Grow Rate (CAGR) by Region: 2019 VS 2023 VS 2030 (US\$ Million)

Table 19. Global Hydrogen and Fuel Cells Revenue by Region (2019-2024) & (US\$ Million)

Table 20. Global Hydrogen and Fuel Cells Revenue by Region (2025-2030) & (US\$ Million)

Table 21. Global Hydrogen and Fuel Cells Revenue Market Share by Region (2019-2024)

Table 22. Global Hydrogen and Fuel Cells Revenue Market Share by Region (2025-2030)

Table 23. Global Hydrogen and Fuel Cells Sales Grow Rate (CAGR) by Region: 2019 VS 2023 VS 2030 (MW)

- Table 24. Global Hydrogen and Fuel Cells Sales by Region (2019-2024) & (MW)
- Table 25. Global Hydrogen and Fuel Cells Sales by Region (2025-2030) & (MW)
- Table 26. Global Hydrogen and Fuel Cells Sales Market Share by Region (2019-2024)
- Table 27. Global Hydrogen and Fuel Cells Sales Market Share by Region (2025-2030)
- Table 28. Global Hydrogen and Fuel Cells Revenue by Manufacturers (US\$ Million) & (2019-2024)
- Table 29. Global Hydrogen and Fuel Cells Revenue Market Share by Manufacturers (2019-2024)
- Table 30. Global Hydrogen and Fuel Cells Sales by Manufacturers (US\$ Million) & (2019-2024)
- Table 31. Global Hydrogen and Fuel Cells Sales Market Share by Manufacturers (2019-2024)
- Table 32. Global Hydrogen and Fuel Cells Sales Price (USD/KW) of Manufacturers (2019-2024)
- Table 33. Global Hydrogen and Fuel Cells Key Manufacturers Ranking, 2022 VS 2023 VS 2024
- Table 34. Global Hydrogen and Fuel Cells Key Manufacturers Manufacturing Sites & Headquarters
- Table 35. Global Hydrogen and Fuel Cells Manufacturers, Product Type & Application
- Table 36. Global Hydrogen and Fuel Cells Manufacturers Commercialization Time
- Table 37. Global Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 38. Global Hydrogen and Fuel Cells by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue of 2023)
- Table 39. Global Hydrogen and Fuel Cells Revenue by Type 2019 VS 2023 VS 2030 (US\$ Million)
- Table 40. Global Hydrogen and Fuel Cells Revenue by Type (2019-2024) & (US\$ Million)
- Table 41. Global Hydrogen and Fuel Cells Revenue by Type (2025-2030) & (US\$ Million)
- Table 42. Global Hydrogen and Fuel Cells Revenue Market Share by Type (2019-2024)
- Table 43. Global Hydrogen and Fuel Cells Revenue Market Share by Type (2025-2030)
- Table 44. Global Hydrogen and Fuel Cells Sales by Type 2019 VS 2023 VS 2030 (MW)
- Table 45. Global Hydrogen and Fuel Cells Sales by Type (2019-2024) & (MW)
- Table 46. Global Hydrogen and Fuel Cells Sales by Type (2025-2030) & (MW)
- Table 47. Global Hydrogen and Fuel Cells Sales Market Share by Type (2019-2024)
- Table 48. Global Hydrogen and Fuel Cells Sales Market Share by Type (2025-2030)
- Table 49. Global Hydrogen and Fuel Cells Price by Type (2019-2024) & (USD/KW)
- Table 50. Global Hydrogen and Fuel Cells Price by Type (2025-2030) & (USD/KW)
- Table 51. Global Hydrogen and Fuel Cells Revenue by Application 2019 VS 2023 VS

2030 (US\$ Million)

Table 52. Global Hydrogen and Fuel Cells Revenue by Application (2019-2024) & (US\$ Million)

Table 53. Global Hydrogen and Fuel Cells Revenue by Application (2025-2030) & (US\$ Million)

Table 54. Global Hydrogen and Fuel Cells Revenue Market Share by Application (2019-2024)

Table 55. Global Hydrogen and Fuel Cells Revenue Market Share by Application (2025-2030)

Table 56. Global Hydrogen and Fuel Cells Sales by Application 2019 VS 2023 VS 2030 (MW)

Table 57. Global Hydrogen and Fuel Cells Sales by Application (2019-2024) & (MW)

Table 58. Global Hydrogen and Fuel Cells Sales by Application (2025-2030) & (MW)

Table 59. Global Hydrogen and Fuel Cells Sales Market Share by Application (2019-2024)

Table 60. Global Hydrogen and Fuel Cells Sales Market Share by Application (2025-2030)

Table 61. Global Hydrogen and Fuel Cells Price by Application (2019-2024) & (USD/KW)

Table 62. Global Hydrogen and Fuel Cells Price by Application (2025-2030) & (USD/KW)

Table 63. Panasonic Company Information

Table 64. Panasonic Business Overview

Table 65. Panasonic Hydrogen and Fuel Cells Sales (MW), Revenue (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 66. Panasonic Hydrogen and Fuel Cells Product Portfolio

Table 67. Panasonic Recent Development

Table 68. Plug Power Company Information

Table 69. Plug Power Business Overview

Table 70. Plug Power Hydrogen and Fuel Cells Sales (MW), Revenue (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 71. Plug Power Hydrogen and Fuel Cells Product Portfolio

Table 72. Plug Power Recent Development

Table 73. Toshiba ESS Company Information

Table 74. Toshiba ESS Business Overview

Table 75. Toshiba ESS Hydrogen and Fuel Cells Sales (MW), Revenue (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 76. Toshiba ESS Hydrogen and Fuel Cells Product Portfolio

Table 77. Toshiba ESS Recent Development

Table 78. Ballard Company Information

Table 79. Ballard Business Overview

Table 80. Ballard Hydrogen and Fuel Cells Sales (MW), Revenue (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 81. Ballard Hydrogen and Fuel Cells Product Portfolio

Table 82. Ballard Recent Development

Table 83. SinoHytec Company Information

Table 84. SinoHytec Business Overview

Table 85. SinoHytec Hydrogen and Fuel Cells Sales (MW), Revenue (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 86. SinoHytec Hydrogen and Fuel Cells Product Portfolio

Table 87. SinoHytec Recent Development

Table 88. Hydrogenics Company Information

Table 89. Hydrogenics Business Overview

Table 90. Hydrogenics Hydrogen and Fuel Cells Sales (MW), Revenue (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 91. Hydrogenics Hydrogen and Fuel Cells Product Portfolio

Table 92. Hydrogenics Recent Development

Table 93. Honda Company Information

Table 94. Honda Business Overview

Table 95. Honda Hydrogen and Fuel Cells Sales (MW), Revenue (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 96. Honda Hydrogen and Fuel Cells Product Portfolio

Table 97. Honda Recent Development

Table 98. Hyundai Mobis Company Information

Table 99. Hyundai Mobis Business Overview

Table 100. Hyundai Mobis Hydrogen and Fuel Cells Sales (MW), Revenue (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 101. Hyundai Mobis Hydrogen and Fuel Cells Product Portfolio

Table 102. Hyundai Mobis Recent Development

Table 103. Toyota Denso Company Information

Table 104. Toyota Denso Business Overview

Table 105. Toyota Denso Hydrogen and Fuel Cells Sales (MW), Revenue (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 106. Toyota Denso Hydrogen and Fuel Cells Product Portfolio

Table 107. Toyota Denso Recent Development

Table 108. Elring Klinger Company Information

Table 109. Elring Klinger Business Overview

Table 110. Elring Klinger Hydrogen and Fuel Cells Sales (MW), Revenue (US\$ Million),

Price (USD/KW) and Gross Margin (2019-2024)

Table 111. Elring Klinger Hydrogen and Fuel Cells Product Portfolio

Table 112. Elring Klinger Recent Development

Table 113. Bosch/Powercell Company Information

Table 114. Bosch/Powercell Business Overview

Table 115. Bosch/Powercell Hydrogen and Fuel Cells Sales (MW), Revenue (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 116. Bosch/Powercell Hydrogen and Fuel Cells Product Portfolio

Table 117. Bosch/Powercell Recent Development

Table 118. Symbio Company Information

Table 119. Symbio Business Overview

Table 120. Symbio Hydrogen and Fuel Cells Sales (MW), Revenue (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 121. Symbio Hydrogen and Fuel Cells Product Portfolio

Table 122. Symbio Recent Development

Table 123. North America Hydrogen and Fuel Cells Revenue by Type (2019-2024) & (US\$ Million)

Table 124. North America Hydrogen and Fuel Cells Revenue by Type (2025-2030) & (US\$ Million)

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

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

Table 127. North America Hydrogen and Fuel Cells Sales Price by Type (2019-2024) & (USD/KW)

Table 128. North America Hydrogen and Fuel Cells Sales Price by Type (2025-2030) & (USD/KW)

Table 129. North America Hydrogen and Fuel Cells Revenue by Application (2019-2024) & (US\$ Million)

Table 130. North America Hydrogen and Fuel Cells Revenue by Application (2025-2030) & (US\$ Million)

Table 131. North America Hydrogen and Fuel Cells Sales by Application (2019-2024) & (MW)

Table 132. North America Hydrogen and Fuel Cells Sales by Application (2025-2030) & (MW)

Table 133. North America Hydrogen and Fuel Cells Sales Price by Application (2019-2024) & (USD/KW)

Table 134. North America Hydrogen and Fuel Cells Sales Price by Application (2025-2030) & (USD/KW)

Table 135. North America Hydrogen and Fuel Cells Revenue Grow Rate by Country (2019 VS 2023 VS 2030) & (US\$ Million)

Table 136. North America Hydrogen and Fuel Cells Revenue Grow Rate by Country (2019-2024) & (US\$ Million)

Table 137. North America Hydrogen and Fuel Cells Revenue Grow Rate by Country (2025-2030) & (US\$ Million)

Table 138. North America Hydrogen and Fuel Cells Sales by Country (2019 VS 2023 VS 2030) & (MW)

Table 139. North America Hydrogen and Fuel Cells Sales by Country (2019-2024) & (MW)

Table 140. North America Hydrogen and Fuel Cells Sales by Country (2025-2030) & (MW)

Table 141. North America Hydrogen and Fuel Cells Sales Price by Country (2019-2024) & (USD/KW)

Table 142. North America Hydrogen and Fuel Cells Sales Price by Country (2025-2030) & (USD/KW)

Table 143. U.S. Hydrogen and Fuel Cells Revenue (2019-2030) & (US\$ Million)

Table 144. Canada Hydrogen and Fuel Cells Revenue (2019-2030) & (US\$ Million)

Table 145. Europe Hydrogen and Fuel Cells Revenue by Type (2019-2024) & (US\$ Million)

Table 146. Europe Hydrogen and Fuel Cells Revenue by Type (2025-2030) & (US\$ Million)

Table 147. Europe Hydrogen and Fuel Cells Sales by Type (2019-2024) & (MW)

Table 148. Europe Hydrogen and Fuel Cells Sales by Type (2025-2030) & (MW)

Table 149. Europe Hydrogen and Fuel Cells Sales Price by Type (2019-2024) & (USD/KW)

Table 150. Europe Hydrogen and Fuel Cells Sales Price by Type (2025-2030) & (USD/KW)

Table 151. Europe Hydrogen and Fuel Cells Revenue by Application (2019-2024) & (US\$ Million)

Table 152. Europe Hydrogen and Fuel Cells Revenue by Application (2025-2030) & (US\$ Million)

Table 153. Europe Hydrogen and Fuel Cells Sales by Application (2019-2024) & (MW)

Table 154. Europe Hydrogen and Fuel Cells Sales by Application (2025-2030) & (MW)

Table 155. Europe Hydrogen and Fuel Cells Sales Price by Application (2019-2024) & (USD/KW)

Table 156. Europe Hydrogen and Fuel Cells Sales Price by Application (2025-2030) & (USD/KW)

Table 157. Europe Hydrogen and Fuel Cells Revenue Grow Rate by Country (2019 VS 2023 VS 2030) & (US\$ Million)

Table 158. Europe Hydrogen and Fuel Cells Revenue Grow Rate by Country

(2019-2024) & (US\$ Million)

Table 159. Europe Hydrogen and Fuel Cells Revenue Grow Rate by Country

(2025-2030) & (US\$ Million)

Table 160. Europe Hydrogen and Fuel Cells Sales by Country (2019 VS 2023 VS 2030) & (MW)

Table 161. Europe Hydrogen and Fuel Cells Sales by Country (2019-2024) & (MW)

Table 162. Europe Hydrogen and Fuel Cells Sales by Country (2025-2030) & (MW)

Table 163. Europe Hydrogen and Fuel Cells Sales Price by Country (2019-2024) & (USD/KW)

Table 164. Europe Hydrogen and Fuel Cells Sales Price by Country (2025-2030) & (USD/KW)

Table 165. Germany Hydrogen and Fuel Cells Revenue (2019-2030) & (US\$ Million)

Table 166. France Hydrogen and Fuel Cells Revenue (2019-2030) & (US\$ Million)

Table 167. Hydrogen and Fuel Cells Revenue (2019-2030) & (US\$ Million)

Table 168. Hydrogen and Fuel Cells Revenue (2019-2030) & (US\$ Million)

Table 169. Hydrogen and Fuel Cells Revenue (2019-2030) & (US\$ Million)

Table 170. China Hydrogen and Fuel Cells Revenue by Type (2019-2024) & (US\$ Million)

Table 171. China Hydrogen and Fuel Cells Revenue by Type (2025-2030) & (US\$ Million)

Table 172. China Hydrogen and Fuel Cells Sales by Type (2019-2024) & (MW)

Table 173. China Hydrogen and Fuel Cells Sales by Type (2025-2030) & (MW)

Table 174. China Hydrogen and Fuel Cells Sales Price by Type (2019-2024) & (USD/KW)

Table 175. China Hydrogen and Fuel Cells Sales Price by Type (2025-2030) & (USD/KW)

Table 176. China Hydrogen and Fuel Cells Revenue by Application (2019-2024) & (US\$ Million)

Table 177. China Hydrogen and Fuel Cells Revenue by Application (2025-2030) & (US\$ Million)

Table 178. China Hydrogen and Fuel Cells Sales by Application (2019-2024) & (MW)

Table 179. China Hydrogen and Fuel Cells Sales by Application (2025-2030) & (MW)

Table 180. China Hydrogen and Fuel Cells Sales Price by Application (2019-2024) & (USD/KW)

Table 181. China Hydrogen and Fuel Cells Sales Price by Application (2025-2030) & (USD/KW)

Table 182. Asia Hydrogen and Fuel Cells Revenue by Type (2019-2024) & (US\$ Million)

Table 183. Asia Hydrogen and Fuel Cells Revenue by Type (2025-2030) & (US\$ Million)



Million)

Table 184. Asia Hydrogen and Fuel Cells Sales by Type (2019-2024) & (MW)

Table 185. Asia Hydrogen and Fuel Cells Sales by Type (2025-2030) & (MW)

Table 186. Asia Hydrogen and Fuel Cells Sales Price by Type (2019-2024) & (USD/KW)

Table 187. Asia Hydrogen and Fuel Cells Sales Price by Type (2025-2030) & (USD/KW)

Table 188. Asia Hydrogen and Fuel Cells Revenue by Application (2019-2024) & (US\$ Million)

Table 189. Asia Hydrogen and Fuel Cells Revenue by Application (2025-2030) & (US\$ Million)

Table 190. Asia Hydrogen and Fuel Cells Sales by Application (2019-2024) & (MW)

Table 191. Asia Hydrogen and Fuel Cells Sales by Application (2025-2030) & (MW)

Table 192. Asia Hydrogen and Fuel Cells Sales Price by Application (2019-2024) & (USD/KW)

Table 193. Asia Hydrogen and Fuel Cells Sales Price by Application (2025-2030) & (USD/KW)

Table 194. Asia Hydrogen and Fuel Cells Revenue Grow Rate by Country (2019 VS 2023 VS 2030) & (US\$ Million)

Table 195. Asia Hydrogen and Fuel Cells Revenue Grow Rate by Country (2019-2024) & (US\$ Million)

Table 196. Asia Hydrogen and Fuel Cells Revenue Grow Rate by Country (2025-2030) & (US\$ Million)

Table 197. Asia Hydrogen and Fuel Cells Sales by Country (2019 VS 2023 VS 2030) & (MW)

Table 198. Asia Hydrogen and Fuel Cells Sales by Country (2019-2024) & (MW)

Table 199. Asia Hydrogen and Fuel Cells Sales by Country (2025-2030) & (MW)

Table 200. Asia Hydrogen and Fuel Cells Sales Price by Country (2019-2024) & (USD/KW)

Table 201. Asia Hydrogen and Fuel Cells Sales Price by Country (2025-2030) & (USD/KW)

Table 202. Japan Hydrogen and Fuel Cells Revenue (2019-2030) & (US\$ Million)

Table 203. South Korea Hydrogen and Fuel Cells Revenue (2019-2030) & (US\$ Million)

Table 204. Hydrogen and Fuel Cells Revenue (2019-2030) & (US\$ Million)

Table 205. Hydrogen and Fuel Cells Revenue (2019-2030) & (US\$ Million)

Table 206. Hydrogen and Fuel Cells Revenue (2019-2030) & (US\$ Million)

Table 207. Hydrogen and Fuel Cells Revenue (2019-2030) & (US\$ Million)

Table 208. Hydrogen and Fuel Cells Revenue (2019-2030) & (US\$ Million)

Table 209. Hydrogen and Fuel Cells Revenue (2019-2030) & (US\$ Million)

Table 210. MEALA Hydrogen and Fuel Cells Revenue by Type (2019-2

## I would like to order

Product name: Global Hydrogen and Fuel Cells Market Analysis and Forecast 2024-2030

Product link: <https://marketpublishers.com/r/GD61845E2255EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

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

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/GD61845E2255EN.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