

# Global Hydrogen and Fuel Cells Market Growth 2024-2030

<https://marketpublishers.com/r/GE1682337D2EN.html>

Date: January 2024

Pages: 121

Price: US\$ 3,660.00 (Single User License)

ID: GE1682337D2EN

## Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

According to our LPI (LP Information) latest study, the global Hydrogen and Fuel Cells market size was valued at US\$ 3224.7 million in 2023. With growing demand in downstream market, the Hydrogen and Fuel Cells is forecast to a readjusted size of US\$ 25460 million by 2030 with a CAGR of 34.3% during review period.

The research report highlights the growth potential of the global Hydrogen and Fuel Cells market. Hydrogen and Fuel Cells are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Hydrogen and Fuel Cells. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Hydrogen and Fuel Cells market.

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.

Traditionally, North American market develops significantly due to commercialization and adoption of electric vehicles. However, Asia Pacific emerges as a growing market in terms of shipment in 2019. Growing demand for new energy vehicles and power systems in APAC market triggers the market demand.

The hydrogen and fuel cells market, by type, is segmented into air-cooled type and transport-cooled type, and air-cooled system accounted for the largest market share in 2019.

Growing demand for clean energy generation and reliance on hydrogen and fuel cells-based public transportation systems in developed regions is driving market growth. Moreover, advantages offered by air-cooled system, such as structure is simple, light weight, the price is relatively cheap are likely to drive the demand for air-cooled system during the forecast period.

Power based electricity generation is effective in minimizing emission of carbon dioxide or any other hazardous pollutants. Hence, hydrogen and fuel cells technology plays a vital role in dealing with environmental issues as well as encouraging the use of renewable carriers of energy. Ongoing product developments and innovation is expected to open new opportunities for emerging players.

#### Key Features:

The report on Hydrogen and Fuel Cells market reflects various aspects and provide valuable insights into the industry.

**Market Size and Growth:** The research report provide an overview of the current size and growth of the Hydrogen and Fuel Cells market. It may include historical data, market segmentation by Type (e.g., Air-Cooled, Water-Cooled), and regional breakdowns.

**Market Drivers and Challenges:** The report can identify and analyse the factors driving the growth of the Hydrogen and Fuel Cells market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

**Competitive Landscape:** The research report provides analysis of the competitive landscape within the Hydrogen and Fuel Cells market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

**Technological Developments:** The research report can delve into the latest technological developments in the Hydrogen and Fuel Cells industry. This include

advancements in Hydrogen and Fuel Cells technology, Hydrogen and Fuel Cells new entrants, Hydrogen and Fuel Cells new investment, and other innovations that are shaping the future of Hydrogen and Fuel Cells.

**Downstream Procumbent Preference:** The report can shed light on customer procumbent behaviour and adoption trends in the Hydrogen and Fuel Cells market. It includes factors influencing customer ' purchasing decisions, preferences for Hydrogen and Fuel Cells product.

**Government Policies and Incentives:** The research report analyse the impact of government policies and incentives on the Hydrogen and Fuel Cells market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Hydrogen and Fuel Cells market. The report also evaluates the effectiveness of these policies in driving market growth.

**Environmental Impact and Sustainability:** The research report assess the environmental impact and sustainability aspects of the Hydrogen and Fuel Cells market.

**Market Forecasts and Future Outlook:** Based on the analysis conducted, the research report provide market forecasts and outlook for the Hydrogen and Fuel Cells industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

**Recommendations and Opportunities:** The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Hydrogen and Fuel Cells market.

**Market Segmentation:**

Hydrogen and 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.

**Segmentation by type**

Air-Cooled

Water-Cooled

## Segmentation by application

Stationary

Transport

Portable

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Panasonic

Plug Power

Toshiba ESS

Ballard

SinoHytec

Hydrogenics

Honda

Hyundai Mobis

Toyota Denso

Elring Klinger

Bosch/Powercell

Symbio

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Hydrogen and Fuel Cells market?

What factors are driving Hydrogen and Fuel Cells market growth, globally and by region?

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

How do Hydrogen and Fuel Cells market opportunities vary by end market size?

How does Hydrogen and Fuel Cells break out type, application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global Hydrogen and Fuel Cells Annual Sales 2019-2030
  - 2.1.2 World Current & Future Analysis for Hydrogen and Fuel Cells by Geographic Region, 2019, 2023 & 2030
  - 2.1.3 World Current & Future Analysis for Hydrogen and Fuel Cells by Country/Region, 2019, 2023 & 2030
- 2.2 Hydrogen and Fuel Cells Segment by Type
  - 2.2.1 Air-Cooled
  - 2.2.2 Water-Cooled
- 2.3 Hydrogen and Fuel Cells Sales by Type
  - 2.3.1 Global Hydrogen and Fuel Cells Sales Market Share by Type (2019-2024)
  - 2.3.2 Global Hydrogen and Fuel Cells Revenue and Market Share by Type (2019-2024)
  - 2.3.3 Global Hydrogen and Fuel Cells Sale Price by Type (2019-2024)
- 2.4 Hydrogen and Fuel Cells Segment by Application
  - 2.4.1 Stationary
  - 2.4.2 Transport
  - 2.4.3 Portable
- 2.5 Hydrogen and Fuel Cells Sales by Application
  - 2.5.1 Global Hydrogen and Fuel Cells Sale Market Share by Application (2019-2024)
  - 2.5.2 Global Hydrogen and Fuel Cells Revenue and Market Share by Application (2019-2024)
  - 2.5.3 Global Hydrogen and Fuel Cells Sale Price by Application (2019-2024)

### **3 GLOBAL HYDROGEN AND FUEL CELLS BY COMPANY**

#### 3.1 Global Hydrogen and Fuel Cells Breakdown Data by Company

##### 3.1.1 Global Hydrogen and Fuel Cells Annual Sales by Company (2019-2024)

##### 3.1.2 Global Hydrogen and Fuel Cells Sales Market Share by Company (2019-2024)

#### 3.2 Global Hydrogen and Fuel Cells Annual Revenue by Company (2019-2024)

##### 3.2.1 Global Hydrogen and Fuel Cells Revenue by Company (2019-2024)

##### 3.2.2 Global Hydrogen and Fuel Cells Revenue Market Share by Company (2019-2024)

#### 3.3 Global Hydrogen and Fuel Cells Sale Price by Company

#### 3.4 Key Manufacturers Hydrogen and Fuel Cells Producing Area Distribution, Sales Area, Product Type

##### 3.4.1 Key Manufacturers Hydrogen and Fuel Cells Product Location Distribution

##### 3.4.2 Players Hydrogen and Fuel Cells Products Offered

#### 3.5 Market Concentration Rate Analysis

##### 3.5.1 Competition Landscape Analysis

##### 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

#### 3.6 New Products and Potential Entrants

#### 3.7 Mergers & Acquisitions, Expansion

### **4 WORLD HISTORIC REVIEW FOR HYDROGEN AND FUEL CELLS BY GEOGRAPHIC REGION**

#### 4.1 World Historic Hydrogen and Fuel Cells Market Size by Geographic Region (2019-2024)

##### 4.1.1 Global Hydrogen and Fuel Cells Annual Sales by Geographic Region (2019-2024)

##### 4.1.2 Global Hydrogen and Fuel Cells Annual Revenue by Geographic Region (2019-2024)

#### 4.2 World Historic Hydrogen and Fuel Cells Market Size by Country/Region (2019-2024)

##### 4.2.1 Global Hydrogen and Fuel Cells Annual Sales by Country/Region (2019-2024)

##### 4.2.2 Global Hydrogen and Fuel Cells Annual Revenue by Country/Region (2019-2024)

#### 4.3 Americas Hydrogen and Fuel Cells Sales Growth

#### 4.4 APAC Hydrogen and Fuel Cells Sales Growth

#### 4.5 Europe Hydrogen and Fuel Cells Sales Growth

#### 4.6 Middle East & Africa Hydrogen and Fuel Cells Sales Growth



## **5 AMERICAS**

### 5.1 Americas Hydrogen and Fuel Cells Sales by Country

#### 5.1.1 Americas Hydrogen and Fuel Cells Sales by Country (2019-2024)

#### 5.1.2 Americas Hydrogen and Fuel Cells Revenue by Country (2019-2024)

### 5.2 Americas Hydrogen and Fuel Cells Sales by Type

### 5.3 Americas Hydrogen and Fuel Cells Sales by Application

### 5.4 United States

### 5.5 Canada

### 5.6 Mexico

### 5.7 Brazil

## **6 APAC**

### 6.1 APAC Hydrogen and Fuel Cells Sales by Region

#### 6.1.1 APAC Hydrogen and Fuel Cells Sales by Region (2019-2024)

#### 6.1.2 APAC Hydrogen and Fuel Cells Revenue by Region (2019-2024)

### 6.2 APAC Hydrogen and Fuel Cells Sales by Type

### 6.3 APAC Hydrogen and Fuel Cells Sales by Application

### 6.4 China

### 6.5 Japan

### 6.6 South Korea

### 6.7 Southeast Asia

### 6.8 India

### 6.9 Australia

### 6.10 China Taiwan

## **7 EUROPE**

### 7.1 Europe Hydrogen and Fuel Cells by Country

#### 7.1.1 Europe Hydrogen and Fuel Cells Sales by Country (2019-2024)

#### 7.1.2 Europe Hydrogen and Fuel Cells Revenue by Country (2019-2024)

### 7.2 Europe Hydrogen and Fuel Cells Sales by Type

### 7.3 Europe Hydrogen and Fuel Cells Sales by Application

### 7.4 Germany

### 7.5 France

### 7.6 UK

### 7.7 Italy

### 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

### 8.1 Middle East & Africa Hydrogen and Fuel Cells by Country

#### 8.1.1 Middle East & Africa Hydrogen and Fuel Cells Sales by Country (2019-2024)

#### 8.1.2 Middle East & Africa Hydrogen and Fuel Cells Revenue by Country (2019-2024)

### 8.2 Middle East & Africa Hydrogen and Fuel Cells Sales by Type

### 8.3 Middle East & Africa Hydrogen and Fuel Cells Sales by Application

#### 8.4 Egypt

#### 8.5 South Africa

#### 8.6 Israel

#### 8.7 Turkey

#### 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

### 9.1 Market Drivers & Growth Opportunities

### 9.2 Market Challenges & Risks

### 9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

### 10.1 Raw Material and Suppliers

### 10.2 Manufacturing Cost Structure Analysis of Hydrogen and Fuel Cells

### 10.3 Manufacturing Process Analysis of Hydrogen and Fuel Cells

### 10.4 Industry Chain Structure of Hydrogen and Fuel Cells

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

### 11.1 Sales Channel

#### 11.1.1 Direct Channels

#### 11.1.2 Indirect Channels

### 11.2 Hydrogen and Fuel Cells Distributors

### 11.3 Hydrogen and Fuel Cells Customer

## **12 WORLD FORECAST REVIEW FOR HYDROGEN AND FUEL CELLS BY GEOGRAPHIC REGION**

### 12.1 Global Hydrogen and Fuel Cells Market Size Forecast by Region

- 12.1.1 Global Hydrogen and Fuel Cells Forecast by Region (2025-2030)
- 12.1.2 Global Hydrogen and Fuel Cells Annual Revenue Forecast by Region (2025-2030)
- 12.2 Americas Forecast by Country
- 12.3 APAC Forecast by Region
- 12.4 Europe Forecast by Country
- 12.5 Middle East & Africa Forecast by Country
- 12.6 Global Hydrogen and Fuel Cells Forecast by Type
- 12.7 Global Hydrogen and Fuel Cells Forecast by Application

## **13 KEY PLAYERS ANALYSIS**

### **13.1 Panasonic**

- 13.1.1 Panasonic Company Information
- 13.1.2 Panasonic Hydrogen and Fuel Cells Product Portfolios and Specifications
- 13.1.3 Panasonic Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)
- 13.1.4 Panasonic Main Business Overview
- 13.1.5 Panasonic Latest Developments

### **13.2 Plug Power**

- 13.2.1 Plug Power Company Information
- 13.2.2 Plug Power Hydrogen and Fuel Cells Product Portfolios and Specifications
- 13.2.3 Plug Power Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)
- 13.2.4 Plug Power Main Business Overview
- 13.2.5 Plug Power Latest Developments

### **13.3 Toshiba ESS**

- 13.3.1 Toshiba ESS Company Information
- 13.3.2 Toshiba ESS Hydrogen and Fuel Cells Product Portfolios and Specifications
- 13.3.3 Toshiba ESS Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)
- 13.3.4 Toshiba ESS Main Business Overview
- 13.3.5 Toshiba ESS Latest Developments

### **13.4 Ballard**

- 13.4.1 Ballard Company Information
- 13.4.2 Ballard Hydrogen and Fuel Cells Product Portfolios and Specifications
- 13.4.3 Ballard Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)
- 13.4.4 Ballard Main Business Overview

#### 13.4.5 Ballard Latest Developments

### 13.5 SinoHytec

#### 13.5.1 SinoHytec Company Information

#### 13.5.2 SinoHytec Hydrogen and Fuel Cells Product Portfolios and Specifications

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

#### 13.5.4 SinoHytec Main Business Overview

#### 13.5.5 SinoHytec Latest Developments

### 13.6 Hydrogenics

#### 13.6.1 Hydrogenics Company Information

#### 13.6.2 Hydrogenics Hydrogen and Fuel Cells Product Portfolios and Specifications

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

#### 13.6.4 Hydrogenics Main Business Overview

#### 13.6.5 Hydrogenics Latest Developments

### 13.7 Honda

#### 13.7.1 Honda Company Information

#### 13.7.2 Honda Hydrogen and Fuel Cells Product Portfolios and Specifications

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

#### 13.7.4 Honda Main Business Overview

#### 13.7.5 Honda Latest Developments

### 13.8 Hyundai Mobis

#### 13.8.1 Hyundai Mobis Company Information

#### 13.8.2 Hyundai Mobis Hydrogen and Fuel Cells Product Portfolios and Specifications

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

#### 13.8.4 Hyundai Mobis Main Business Overview

#### 13.8.5 Hyundai Mobis Latest Developments

### 13.9 Toyota Denso

#### 13.9.1 Toyota Denso Company Information

#### 13.9.2 Toyota Denso Hydrogen and Fuel Cells Product Portfolios and Specifications

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

#### 13.9.4 Toyota Denso Main Business Overview

#### 13.9.5 Toyota Denso Latest Developments

### 13.10 Elring Klinger

#### 13.10.1 Elring Klinger Company Information

#### 13.10.2 Elring Klinger Hydrogen and Fuel Cells Product Portfolios and Specifications

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

13.10.4 Elring Klinger Main Business Overview

13.10.5 Elring Klinger Latest Developments

13.11 Bosch/Powercell

13.11.1 Bosch/Powercell Company Information

13.11.2 Bosch/Powercell Hydrogen and Fuel Cells Product Portfolios and Specifications

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

13.11.4 Bosch/Powercell Main Business Overview

13.11.5 Bosch/Powercell Latest Developments

13.12 Symbio

13.12.1 Symbio Company Information

13.12.2 Symbio Hydrogen and Fuel Cells Product Portfolios and Specifications

13.12.3 Symbio Hydrogen and Fuel Cells Sales, Revenue, Price and Gross Margin (2019-2024)

13.12.4 Symbio Main Business Overview

13.12.5 Symbio Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Hydrogen and Fuel Cells Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)

Table 2. Hydrogen and Fuel Cells Annual Sales CAGR by Country/Region (2019, 2023 & 2030) & (\$ millions)

Table 3. Major Players of Air-Cooled

Table 4. Major Players of Water-Cooled

Table 5. Global Hydrogen and Fuel Cells Sales by Type (2019-2024) & (GWh)

Table 6. Global Hydrogen and Fuel Cells Sales Market Share by Type (2019-2024)

Table 7. Global Hydrogen and Fuel Cells Revenue by Type (2019-2024) & (\$ million)

Table 8. Global Hydrogen and Fuel Cells Revenue Market Share by Type (2019-2024)

Table 9. Global Hydrogen and Fuel Cells Sale Price by Type (2019-2024) & (USD/KWh)

Table 10. Global Hydrogen and Fuel Cells Sales by Application (2019-2024) & (GWh)

Table 11. Global Hydrogen and Fuel Cells Sales Market Share by Application (2019-2024)

Table 12. Global Hydrogen and Fuel Cells Revenue by Application (2019-2024)

Table 13. Global Hydrogen and Fuel Cells Revenue Market Share by Application (2019-2024)

Table 14. Global Hydrogen and Fuel Cells Sale Price by Application (2019-2024) & (USD/KWh)

Table 15. Global Hydrogen and Fuel Cells Sales by Company (2019-2024) & (GWh)

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

Table 17. Global Hydrogen and Fuel Cells Revenue by Company (2019-2024) (\$ Millions)

Table 18. Global Hydrogen and Fuel Cells Revenue Market Share by Company (2019-2024)

Table 19. Global Hydrogen and Fuel Cells Sale Price by Company (2019-2024) & (USD/KWh)

Table 20. Key Manufacturers Hydrogen and Fuel Cells Producing Area Distribution and Sales Area

Table 21. Players Hydrogen and Fuel Cells Products Offered

Table 22. Hydrogen and Fuel Cells Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

Table 23. New Products and Potential Entrants

Table 24. Mergers & Acquisitions, Expansion

Table 25. Global Hydrogen and Fuel Cells Sales by Geographic Region (2019-2024) & (GWh)

Table 26. Global Hydrogen and Fuel Cells Sales Market Share Geographic Region (2019-2024)

Table 27. Global Hydrogen and Fuel Cells Revenue by Geographic Region (2019-2024) & (\$ millions)

Table 28. Global Hydrogen and Fuel Cells Revenue Market Share by Geographic Region (2019-2024)

Table 29. Global Hydrogen and Fuel Cells Sales by Country/Region (2019-2024) & (GWh)

Table 30. Global Hydrogen and Fuel Cells Sales Market Share by Country/Region (2019-2024)

Table 31. Global Hydrogen and Fuel Cells Revenue by Country/Region (2019-2024) & (\$ millions)

Table 32. Global Hydrogen and Fuel Cells Revenue Market Share by Country/Region (2019-2024)

Table 33. Americas Hydrogen and Fuel Cells Sales by Country (2019-2024) & (GWh)

Table 34. Americas Hydrogen and Fuel Cells Sales Market Share by Country (2019-2024)

Table 35. Americas Hydrogen and Fuel Cells Revenue by Country (2019-2024) & (\$ Millions)

Table 36. Americas Hydrogen and Fuel Cells Revenue Market Share by Country (2019-2024)

Table 37. Americas Hydrogen and Fuel Cells Sales by Type (2019-2024) & (GWh)

Table 38. Americas Hydrogen and Fuel Cells Sales by Application (2019-2024) & (GWh)

Table 39. APAC Hydrogen and Fuel Cells Sales by Region (2019-2024) & (GWh)

Table 40. APAC Hydrogen and Fuel Cells Sales Market Share by Region (2019-2024)

Table 41. APAC Hydrogen and Fuel Cells Revenue by Region (2019-2024) & (\$ Millions)

Table 42. APAC Hydrogen and Fuel Cells Revenue Market Share by Region (2019-2024)

Table 43. APAC Hydrogen and Fuel Cells Sales by Type (2019-2024) & (GWh)

Table 44. APAC Hydrogen and Fuel Cells Sales by Application (2019-2024) & (GWh)

Table 45. Europe Hydrogen and Fuel Cells Sales by Country (2019-2024) & (GWh)

Table 46. Europe Hydrogen and Fuel Cells Sales Market Share by Country (2019-2024)

Table 47. Europe Hydrogen and Fuel Cells Revenue by Country (2019-2024) & (\$ Millions)

Table 48. Europe Hydrogen and Fuel Cells Revenue Market Share by Country



(2019-2024)

Table 49. Europe Hydrogen and Fuel Cells Sales by Type (2019-2024) & (GWh)

Table 50. Europe Hydrogen and Fuel Cells Sales by Application (2019-2024) & (GWh)

Table 51. Middle East & Africa Hydrogen and Fuel Cells Sales by Country (2019-2024) & (GWh)

Table 52. Middle East & Africa Hydrogen and Fuel Cells Sales Market Share by Country (2019-2024)

Table 53. Middle East & Africa Hydrogen and Fuel Cells Revenue by Country (2019-2024) & (\$ Millions)

Table 54. Middle East & Africa Hydrogen and Fuel Cells Revenue Market Share by Country (2019-2024)

Table 55. Middle East & Africa Hydrogen and Fuel Cells Sales by Type (2019-2024) & (GWh)

Table 56. Middle East & Africa Hydrogen and Fuel Cells Sales by Application (2019-2024) & (GWh)

Table 57. Key Market Drivers & Growth Opportunities of Hydrogen and Fuel Cells

Table 58. Key Market Challenges & Risks of Hydrogen and Fuel Cells

Table 59. Key Industry Trends of Hydrogen and Fuel Cells

Table 60. Hydrogen and Fuel Cells Raw Material

Table 61. Key Suppliers of Raw Materials

Table 62. Hydrogen and Fuel Cells Distributors List

Table 63. Hydrogen and Fuel Cells Customer List

Table 64. Global Hydrogen and Fuel Cells Sales Forecast by Region (2025-2030) & (GWh)

Table 65. Global Hydrogen and Fuel Cells Revenue Forecast by Region (2025-2030) & (\$ millions)

Table 66. Americas Hydrogen and Fuel Cells Sales Forecast by Country (2025-2030) & (GWh)

Table 67. Americas Hydrogen and Fuel Cells Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 68. APAC Hydrogen and Fuel Cells Sales Forecast by Region (2025-2030) & (GWh)

Table 69. APAC Hydrogen and Fuel Cells Revenue Forecast by Region (2025-2030) & (\$ millions)

Table 70. Europe Hydrogen and Fuel Cells Sales Forecast by Country (2025-2030) & (GWh)

Table 71. Europe Hydrogen and Fuel Cells Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 72. Middle East & Africa Hydrogen and Fuel Cells Sales Forecast by Country



(2025-2030) & (GWh)

Table 73. Middle East & Africa Hydrogen and Fuel Cells Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 74. Global Hydrogen and Fuel Cells Sales Forecast by Type (2025-2030) & (GWh)

Table 75. Global Hydrogen and Fuel Cells Revenue Forecast by Type (2025-2030) & (\$ Millions)

Table 76. Global Hydrogen and Fuel Cells Sales Forecast by Application (2025-2030) & (GWh)

Table 77. Global Hydrogen and Fuel Cells Revenue Forecast by Application (2025-2030) & (\$ Millions)

Table 78. Panasonic Basic Information, Hydrogen and Fuel Cells Manufacturing Base, Sales Area and Its Competitors

Table 79. Panasonic Hydrogen and Fuel Cells Product Portfolios and Specifications

Table 80. Panasonic Hydrogen and Fuel Cells Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)

Table 81. Panasonic Main Business

Table 82. Panasonic Latest Developments

Table 83. Plug Power Basic Information, Hydrogen and Fuel Cells Manufacturing Base, Sales Area and Its Competitors

Table 84. Plug Power Hydrogen and Fuel Cells Product Portfolios and Specifications

Table 85. Plug Power Hydrogen and Fuel Cells Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)

Table 86. Plug Power Main Business

Table 87. Plug Power Latest Developments

Table 88. Toshiba ESS Basic Information, Hydrogen and Fuel Cells Manufacturing Base, Sales Area and Its Competitors

Table 89. Toshiba ESS Hydrogen and Fuel Cells Product Portfolios and Specifications

Table 90. Toshiba ESS Hydrogen and Fuel Cells Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)

Table 91. Toshiba ESS Main Business

Table 92. Toshiba ESS Latest Developments

Table 93. Ballard Basic Information, Hydrogen and Fuel Cells Manufacturing Base, Sales Area and Its Competitors

Table 94. Ballard Hydrogen and Fuel Cells Product Portfolios and Specifications

Table 95. Ballard Hydrogen and Fuel Cells Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)

Table 96. Ballard Main Business

Table 97. Ballard Latest Developments

Table 98. SinoHytec Basic Information, Hydrogen and Fuel Cells Manufacturing Base, Sales Area and Its Competitors
Table 99. SinoHytec Hydrogen and Fuel Cells Product Portfolios and Specifications
Table 100. SinoHytec Hydrogen and Fuel Cells Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)
Table 101. SinoHytec Main Business
Table 102. SinoHytec Latest Developments
Table 103. Hydrogenics Basic Information, Hydrogen and Fuel Cells Manufacturing Base, Sales Area and Its Competitors
Table 104. Hydrogenics Hydrogen and Fuel Cells Product Portfolios and Specifications
Table 105. Hydrogenics Hydrogen and Fuel Cells Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)
Table 106. Hydrogenics Main Business
Table 107. Hydrogenics Latest Developments
Table 108. Honda Basic Information, Hydrogen and Fuel Cells Manufacturing Base, Sales Area and Its Competitors
Table 109. Honda Hydrogen and Fuel Cells Product Portfolios and Specifications
Table 110. Honda Hydrogen and Fuel Cells Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)
Table 111. Honda Main Business
Table 112. Honda Latest Developments
Table 113. Hyundai Mobis Basic Information, Hydrogen and Fuel Cells Manufacturing Base, Sales Area and Its Competitors
Table 114. Hyundai Mobis Hydrogen and Fuel Cells Product Portfolios and Specifications
Table 115. Hyundai Mobis Hydrogen and Fuel Cells Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)
Table 116. Hyundai Mobis Main Business
Table 117. Hyundai Mobis Latest Developments
Table 118. Toyota Denso Basic Information, Hydrogen and Fuel Cells Manufacturing Base, Sales Area and Its Competitors
Table 119. Toyota Denso Hydrogen and Fuel Cells Product Portfolios and Specifications
Table 120. Toyota Denso Hydrogen and Fuel Cells Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)
Table 121. Toyota Denso Main Business
Table 122. Toyota Denso Latest Developments
Table 123. Elring Klinger Basic Information, Hydrogen and Fuel Cells Manufacturing Base, Sales Area and Its Competitors

Table 124. Elring Klinger Hydrogen and Fuel Cells Product Portfolios and Specifications

Table 125. Elring Klinger Hydrogen and Fuel Cells Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)

Table 126. Elring Klinger Main Business

Table 127. Elring Klinger Latest Developments

Table 128. Bosch/Powercell Basic Information, Hydrogen and Fuel Cells Manufacturing Base, Sales Area and Its Competitors

Table 129. Bosch/Powercell Hydrogen and Fuel Cells Product Portfolios and Specifications

Table 130. Bosch/Powercell Hydrogen and Fuel Cells Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)

Table 131. Bosch/Powercell Main Business

Table 132. Bosch/Powercell Latest Developments

Table 133. Symbio Basic Information, Hydrogen and Fuel Cells Manufacturing Base, Sales Area and Its Competitors

Table 134. Symbio Hydrogen and Fuel Cells Product Portfolios and Specifications

Table 135. Symbio Hydrogen and Fuel Cells Sales (GWh), Revenue (\$ Million), Price (USD/KWh) and Gross Margin (2019-2024)

Table 136. Symbio Main Business

Table 137. Symbio Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Hydrogen and Fuel Cells
- Figure 2. Hydrogen and Fuel Cells Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Hydrogen and Fuel Cells Sales Growth Rate 2019-2030 (GWh)
- Figure 7. Global Hydrogen and Fuel Cells Revenue Growth Rate 2019-2030 (\$ Millions)
- Figure 8. Hydrogen and Fuel Cells Sales by Region (2019, 2023 & 2030) & (\$ Millions)
- Figure 9. Product Picture of Air-Cooled
- Figure 10. Product Picture of Water-Cooled
- Figure 11. Global Hydrogen and Fuel Cells Sales Market Share by Type in 2023
- Figure 12. Global Hydrogen and Fuel Cells Revenue Market Share by Type (2019-2024)
- Figure 13. Hydrogen and Fuel Cells Consumed in Stationary
- Figure 14. Global Hydrogen and Fuel Cells Market: Stationary (2019-2024) & (GWh)
- Figure 15. Hydrogen and Fuel Cells Consumed in Transport
- Figure 16. Global Hydrogen and Fuel Cells Market: Transport (2019-2024) & (GWh)
- Figure 17. Hydrogen and Fuel Cells Consumed in Portable
- Figure 18. Global Hydrogen and Fuel Cells Market: Portable (2019-2024) & (GWh)
- Figure 19. Global Hydrogen and Fuel Cells Sales Market Share by Application (2023)
- Figure 20. Global Hydrogen and Fuel Cells Revenue Market Share by Application in 2023
- Figure 21. Hydrogen and Fuel Cells Sales Market by Company in 2023 (GWh)
- Figure 22. Global Hydrogen and Fuel Cells Sales Market Share by Company in 2023
- Figure 23. Hydrogen and Fuel Cells Revenue Market by Company in 2023 (\$ Million)
- Figure 24. Global Hydrogen and Fuel Cells Revenue Market Share by Company in 2023
- Figure 25. Global Hydrogen and Fuel Cells Sales Market Share by Geographic Region (2019-2024)
- Figure 26. Global Hydrogen and Fuel Cells Revenue Market Share by Geographic Region in 2023
- Figure 27. Americas Hydrogen and Fuel Cells Sales 2019-2024 (GWh)
- Figure 28. Americas Hydrogen and Fuel Cells Revenue 2019-2024 (\$ Millions)
- Figure 29. APAC Hydrogen and Fuel Cells Sales 2019-2024 (GWh)
- Figure 30. APAC Hydrogen and Fuel Cells Revenue 2019-2024 (\$ Millions)
- Figure 31. Europe Hydrogen and Fuel Cells Sales 2019-2024 (GWh)

- Figure 32. Europe Hydrogen and Fuel Cells Revenue 2019-2024 (\$ Millions)
- Figure 33. Middle East & Africa Hydrogen and Fuel Cells Sales 2019-2024 (GWh)
- Figure 34. Middle East & Africa Hydrogen and Fuel Cells Revenue 2019-2024 (\$ Millions)
- Figure 35. Americas Hydrogen and Fuel Cells Sales Market Share by Country in 2023
- Figure 36. Americas Hydrogen and Fuel Cells Revenue Market Share by Country in 2023
- Figure 37. Americas Hydrogen and Fuel Cells Sales Market Share by Type (2019-2024)
- Figure 38. Americas Hydrogen and Fuel Cells Sales Market Share by Application (2019-2024)
- Figure 39. United States Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)
- Figure 40. Canada Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)
- Figure 41. Mexico Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)
- Figure 42. Brazil Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)
- Figure 43. APAC Hydrogen and Fuel Cells Sales Market Share by Region in 2023
- Figure 44. APAC Hydrogen and Fuel Cells Revenue Market Share by Regions in 2023
- Figure 45. APAC Hydrogen and Fuel Cells Sales Market Share by Type (2019-2024)
- Figure 46. APAC Hydrogen and Fuel Cells Sales Market Share by Application (2019-2024)
- Figure 47. China Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)
- Figure 48. Japan Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)
- Figure 49. South Korea Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)
- Figure 50. Southeast Asia Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)
- Figure 51. India Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)
- Figure 52. Australia Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)
- Figure 53. China Taiwan Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)
- Figure 54. Europe Hydrogen and Fuel Cells Sales Market Share by Country in 2023
- Figure 55. Europe Hydrogen and Fuel Cells Revenue Market Share by Country in 2023
- Figure 56. Europe Hydrogen and Fuel Cells Sales Market Share by Type (2019-2024)
- Figure 57. Europe Hydrogen and Fuel Cells Sales Market Share by Application (2019-2024)
- Figure 58. Germany Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)
- Figure 59. France Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)
- Figure 60. UK Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)
- Figure 61. Italy Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)

Figure 62. Russia Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)

Figure 63. Middle East & Africa Hydrogen and Fuel Cells Sales Market Share by Country in 2023

Figure 64. Middle East & Africa Hydrogen and Fuel Cells Revenue Market Share by Country in 2023

Figure 65. Middle East & Africa Hydrogen and Fuel Cells Sales Market Share by Type (2019-2024)

Figure 66. Middle East & Africa Hydrogen and Fuel Cells Sales Market Share by Application (2019-2024)

Figure 67. Egypt Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)

Figure 68. South Africa Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)

Figure 69. Israel Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)

Figure 70. Turkey Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)

Figure 71. GCC Country Hydrogen and Fuel Cells Revenue Growth 2019-2024 (\$ Millions)

Figure 72. Manufacturing Cost Structure Analysis of Hydrogen and Fuel Cells in 2023

Figure 73. Manufacturing Process Analysis of Hydrogen and Fuel Cells

Figure 74. Industry Chain Structure of Hydrogen and Fuel Cells

Figure 75. Channels of Distribution

Figure 76. Global Hydrogen and Fuel Cells Sales Market Forecast by Region (2025-2030)

Figure 77. Global Hydrogen and Fuel Cells Revenue Market Share Forecast by Region (2025-2030)

Figure 78. Global Hydrogen and Fuel Cells Sales Market Share Forecast by Type (2025-2030)

Figure 79. Global Hydrogen and Fuel Cells Revenue Market Share Forecast by Type (2025-2030)

Figure 80. Global Hydrogen and Fuel Cells Sales Market Share Forecast by Application (2025-2030)

Figure 81. Global Hydrogen and Fuel Cells Revenue Market Share Forecast by Application (2025-2030)



## I would like to order

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

Product link: <https://marketpublishers.com/r/GE1682337D2EN.html>

Price: US\$ 3,660.00 (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/GE1682337D2EN.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