

Global Hydrogen and Fuel Cells Market by Size, by Type, by Application, by Region, History and Forecast 2019-2030

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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: Provides an overview of the Hydrogen and Fuel Cells market, including product definition, global market growth prospects, production value, capacity, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Hydrogen and Fuel Cells industry.

Chapter 3: Detailed analysis of Hydrogen and Fuel Cells market competition landscape. Including Hydrogen and Fuel Cells manufacturers' output value, output and average price from 2019 to 2024, as well as competition analysis indicators such as origin, product type, application, merger and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 6: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 7: Production/Production Value of Hydrogen and Fuel Cells by region. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 8: Consumption of Hydrogen and Fuel Cells in 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, and production of each country in the world.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights of the report.

Contents

1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
 - 1.2.1 Global Hydrogen and Fuel Cells Production Value Estimates and Forecasts (2019-2030)
 - 1.2.2 Global Hydrogen and Fuel Cells Production Capacity Estimates and Forecasts (2019-2030)
 - 1.2.3 Global Hydrogen and Fuel Cells Production Estimates and Forecasts (2019-2030)
 - 1.2.4 Global Hydrogen and Fuel Cells Market Average Price (2019-2030)
- 1.3 Assumptions and Limitations
- 1.4 Study Goals and Objectives

2 GLOBAL 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 HYDROGEN AND FUEL CELLS MARKET BY MANUFACTURERS

- 3.1 Global Hydrogen and Fuel Cells Production Value by Manufacturers (2019-2024)
- 3.2 Global Hydrogen and Fuel Cells Production by Manufacturers (2019-2024)
- 3.3 Global Hydrogen and Fuel Cells Average Price by Manufacturers (2019-2024)
- 3.4 Global Hydrogen and Fuel Cells Industry Manufacturers Ranking, 2022 VS 2023 VS 2024
- 3.5 Global Hydrogen and Fuel Cells Key Manufacturers Manufacturing Sites & Headquarters
- 3.6 Global Hydrogen and Fuel Cells Manufacturers, Product Type & Application
- 3.7 Global Hydrogen and Fuel Cells Manufacturers Commercialization Time
- 3.8 Market Competitive Analysis
 - 3.8.1 Global Hydrogen and Fuel Cells Market CR5 and HHI
 - 3.8.2 Global Top 5 and 10 Hydrogen and Fuel Cells Players Market Share by Production Value in 2023
 - 3.8.3 2023 Hydrogen and Fuel Cells Tier 1, Tier 2, and Tier

4 HYDROGEN AND FUEL CELLS MARKET BY TYPE

4.1 Hydrogen and Fuel Cells Type Introduction

4.1.1 Air-Cooled

4.1.2 Water-Cooled

4.2 Global Hydrogen and Fuel Cells Production by Type

4.2.1 Global Hydrogen and Fuel Cells Production by Type (2019 VS 2023 VS 2030)

4.2.2 Global Hydrogen and Fuel Cells Production by Type (2019-2030)

4.2.3 Global Hydrogen and Fuel Cells Production Market Share by Type (2019-2030)

4.3 Global Hydrogen and Fuel Cells Production Value by Type

4.3.1 Global Hydrogen and Fuel Cells Production Value by Type (2019 VS 2023 VS 2030)

4.3.2 Global Hydrogen and Fuel Cells Production Value by Type (2019-2030)

4.3.3 Global Hydrogen and Fuel Cells Production Value Market Share by Type (2019-2030)

5 HYDROGEN AND FUEL CELLS MARKET BY APPLICATION

5.1 Hydrogen and Fuel Cells Application Introduction

5.1.1 Stationary

5.1.2 Transport

5.1.3 Portable

5.2 Global Hydrogen and Fuel Cells Production by Application

5.2.1 Global Hydrogen and Fuel Cells Production by Application (2019 VS 2023 VS 2030)

5.2.2 Global Hydrogen and Fuel Cells Production by Application (2019-2030)

5.2.3 Global Hydrogen and Fuel Cells Production Market Share by Application (2019-2030)

5.3 Global Hydrogen and Fuel Cells Production Value by Application

5.3.1 Global Hydrogen and Fuel Cells Production Value by Application (2019 VS 2023 VS 2030)

5.3.2 Global Hydrogen and Fuel Cells Production Value by Application (2019-2030)

5.3.3 Global Hydrogen and Fuel Cells Production Value Market Share by Application (2019-2030)

6 COMPANY PROFILES

6.1 Panasonic

- 6.1.1 Panasonic Comapny Information
- 6.1.2 Panasonic Business Overview
- 6.1.3 Panasonic Hydrogen and Fuel Cells Production, Value and Gross Margin (2019-2024)
- 6.1.4 Panasonic Hydrogen and Fuel Cells Product Portfolio
- 6.1.5 Panasonic Recent Developments
- 6.2 Plug Power
 - 6.2.1 Plug Power Comapny Information
 - 6.2.2 Plug Power Business Overview
 - 6.2.3 Plug Power Hydrogen and Fuel Cells Production, Value and Gross Margin (2019-2024)
 - 6.2.4 Plug Power Hydrogen and Fuel Cells Product Portfolio
 - 6.2.5 Plug Power Recent Developments
- 6.3 Toshiba ESS
 - 6.3.1 Toshiba ESS Comapny Information
 - 6.3.2 Toshiba ESS Business Overview
 - 6.3.3 Toshiba ESS Hydrogen and Fuel Cells Production, Value and Gross Margin (2019-2024)
 - 6.3.4 Toshiba ESS Hydrogen and Fuel Cells Product Portfolio
 - 6.3.5 Toshiba ESS Recent Developments
- 6.4 Ballard
 - 6.4.1 Ballard Comapny Information
 - 6.4.2 Ballard Business Overview
 - 6.4.3 Ballard Hydrogen and Fuel Cells Production, Value and Gross Margin (2019-2024)
 - 6.4.4 Ballard Hydrogen and Fuel Cells Product Portfolio
 - 6.4.5 Ballard Recent Developments
- 6.5 SinoHytec
 - 6.5.1 SinoHytec Comapny Information
 - 6.5.2 SinoHytec Business Overview
 - 6.5.3 SinoHytec Hydrogen and Fuel Cells Production, Value and Gross Margin (2019-2024)
 - 6.5.4 SinoHytec Hydrogen and Fuel Cells Product Portfolio
 - 6.5.5 SinoHytec Recent Developments
- 6.6 Hydrogenics
 - 6.6.1 Hydrogenics Comapny Information
 - 6.6.2 Hydrogenics Business Overview
 - 6.6.3 Hydrogenics Hydrogen and Fuel Cells Production, Value and Gross Margin (2019-2024)

- 6.6.4 Hydrogenics Hydrogen and Fuel Cells Product Portfolio
- 6.6.5 Hydrogenics Recent Developments
- 6.7 Honda
 - 6.7.1 Honda Company Information
 - 6.7.2 Honda Business Overview
 - 6.7.3 Honda Hydrogen and Fuel Cells Production, Value and Gross Margin (2019-2024)
 - 6.7.4 Honda Hydrogen and Fuel Cells Product Portfolio
 - 6.7.5 Honda Recent Developments
- 6.8 Hyundai Mobis
 - 6.8.1 Hyundai Mobis Company Information
 - 6.8.2 Hyundai Mobis Business Overview
 - 6.8.3 Hyundai Mobis Hydrogen and Fuel Cells Production, Value and Gross Margin (2019-2024)
 - 6.8.4 Hyundai Mobis Hydrogen and Fuel Cells Product Portfolio
 - 6.8.5 Hyundai Mobis Recent Developments
- 6.9 Toyota Denso
 - 6.9.1 Toyota Denso Company Information
 - 6.9.2 Toyota Denso Business Overview
 - 6.9.3 Toyota Denso Hydrogen and Fuel Cells Production, Value and Gross Margin (2019-2024)
 - 6.9.4 Toyota Denso Hydrogen and Fuel Cells Product Portfolio
 - 6.9.5 Toyota Denso Recent Developments
- 6.10 Elring Klinger
 - 6.10.1 Elring Klinger Company Information
 - 6.10.2 Elring Klinger Business Overview
 - 6.10.3 Elring Klinger Hydrogen and Fuel Cells Production, Value and Gross Margin (2019-2024)
 - 6.10.4 Elring Klinger Hydrogen and Fuel Cells Product Portfolio
 - 6.10.5 Elring Klinger Recent Developments
- 6.11 Bosch/Powercell
 - 6.11.1 Bosch/Powercell Company Information
 - 6.11.2 Bosch/Powercell Business Overview
 - 6.11.3 Bosch/Powercell Hydrogen and Fuel Cells Production, Value and Gross Margin (2019-2024)
 - 6.11.4 Bosch/Powercell Hydrogen and Fuel Cells Product Portfolio
 - 6.11.5 Bosch/Powercell Recent Developments
- 6.12 Symbio
 - 6.12.1 Symbio Company Information

- 6.12.2 Symbio Business Overview
- 6.12.3 Symbio Hydrogen and Fuel Cells Production, Value and Gross Margin (2019-2024)
- 6.12.4 Symbio Hydrogen and Fuel Cells Product Portfolio
- 6.12.5 Symbio Recent Developments

7 GLOBAL HYDROGEN AND FUEL CELLS PRODUCTION BY REGION

- 7.1 Global Hydrogen and Fuel Cells Production by Region: 2019 VS 2023 VS 2030
- 7.2 Global Hydrogen and Fuel Cells Production by Region (2019-2030)
 - 7.2.1 Global Hydrogen and Fuel Cells Production by Region: 2019-2024
 - 7.2.2 Global Hydrogen and Fuel Cells Production by Region (2025-2030)
- 7.3 Global Hydrogen and Fuel Cells Production by Region: 2019 VS 2023 VS 2030
- 7.4 Global Hydrogen and Fuel Cells Production Value by Region (2019-2030)
 - 7.4.1 Global Hydrogen and Fuel Cells Production Value by Region: 2019-2024
 - 7.4.2 Global Hydrogen and Fuel Cells Production Value by Region (2025-2030)
- 7.5 Global Hydrogen and Fuel Cells Market Price Analysis by Region (2019-2024)
- 7.6 Regional Production Value Trends (2019-2030)
 - 7.6.1 North America Hydrogen and Fuel Cells Production Value (2019-2030)
 - 7.6.2 Europe Hydrogen and Fuel Cells Production Value (2019-2030)
 - 7.6.3 Asia-Pacific Hydrogen and Fuel Cells Production Value (2019-2030)
 - 7.6.4 Latin America Hydrogen and Fuel Cells Production Value (2019-2030)
 - 7.6.5 Middle East & Africa Hydrogen and Fuel Cells Production Value (2019-2030)

8 GLOBAL HYDROGEN AND FUEL CELLS CONSUMPTION BY REGION

- 8.1 Global Hydrogen and Fuel Cells Consumption by Region: 2019 VS 2023 VS 2030
- 8.2 Global Hydrogen and Fuel Cells Consumption by Region (2019-2030)
 - 8.2.1 Global Hydrogen and Fuel Cells Consumption by Region (2019-2024)
 - 8.2.2 Global Hydrogen and Fuel Cells Consumption by Region (2025-2030)
- 8.3 North America
 - 8.3.1 North America Hydrogen and Fuel Cells Consumption Growth Rate by Country: 2019 VS 2023 VS 2030
 - 8.3.2 North America Hydrogen and Fuel Cells Consumption by Country (2019-2030)
 - 8.3.3 U.S.
 - 8.3.4 Canada
- 8.4 Europe
 - 8.4.1 Europe Hydrogen and Fuel Cells Consumption Growth Rate by Country: 2019 VS 2023 VS 2030

8.4.2 Europe Hydrogen and Fuel Cells Consumption by Country (2019-2030)

8.4.3 Germany

8.4.4 France

8.4.5 U.K.

8.4.6 Italy

8.4.7 Netherlands

8.5 Asia Pacific

8.5.1 Asia Pacific Hydrogen and Fuel Cells Consumption Growth Rate by Country:
2019 VS 2023 VS 2030

8.5.2 Asia Pacific Hydrogen and Fuel Cells Consumption by Country (2019-2030)

8.5.3 China

8.5.4 Japan

8.5.5 South Korea

8.5.6 Southeast Asia

8.5.7 India

8.5.8 Australia

8.6 LAMEA

8.6.1 LAMEA Hydrogen and Fuel Cells Consumption Growth Rate by Country: 2019
VS 2023 VS 2030

8.6.2 LAMEA Hydrogen and Fuel Cells Consumption by Country (2019-2030)

8.6.3 Mexico

8.6.4 Brazil

8.6.5 Turkey

8.6.6 GCC Countries

9 VALUE CHAIN AND SALES CHANNELS ANALYSIS

9.1 Hydrogen and Fuel Cells Value Chain Analysis

9.1.1 Hydrogen and Fuel Cells Key Raw Materials

9.1.2 Raw Materials Key Suppliers

9.1.3 Manufacturing Cost Structure

9.1.4 Hydrogen and Fuel Cells Production Mode & Process

9.2 Hydrogen and Fuel Cells Sales Channels Analysis

9.2.1 Direct Comparison with Distribution Share

9.2.2 Hydrogen and Fuel Cells Distributors

9.2.3 Hydrogen and Fuel Cells Customers

10 CONCLUDING INSIGHTS

11 APPENDIX

11.1 Reasons for Doing This Study

11.2 Research Methodology

11.3 Research Process

11.4 Authors List of This Report

11.5 Data Source

11.5.1 Secondary Sources

11.5.2 Primary Sources

11.6 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Hydrogen and Fuel Cells Industry Trends

Table 2. Hydrogen and Fuel Cells Industry Drivers

Table 3. Hydrogen and Fuel Cells Industry Opportunities and Challenges

Table 4. Hydrogen and Fuel Cells Industry Restraints

Table 5. Global Hydrogen and Fuel Cells Production Value by Manufacturers (US\$ Million) & (2019-2024)

Table 6. Global Hydrogen and Fuel Cells Production Value Market Share by Manufacturers (2019-2024)

Table 7. Global Hydrogen and Fuel Cells Production by Manufacturers (MW) & (2019-2024)

Table 8. Global Hydrogen and Fuel Cells Production Market Share by Manufacturers

Table 9. Global Hydrogen and Fuel Cells Average Price (USD/KW) of Manufacturers (2019-2024)

Table 10. Global Hydrogen and Fuel Cells Industry Manufacturers Ranking, 2022 VS 2023 VS 2024

Table 11. Global Hydrogen and Fuel Cells Industry Manufacturers Ranking, 2022 VS 2023 VS 2024

Table 12. Global Hydrogen and Fuel Cells Key Manufacturers Manufacturing Sites & Headquarters

Table 13. Global Hydrogen and Fuel Cells Manufacturers, Product Type & Application

Table 14. Global Hydrogen and Fuel Cells Manufacturers Commercialization Time

Table 15. Global Manufacturers Market Concentration Ratio (CR5 and HHI)

Table 16. Global Hydrogen and Fuel Cells by Manufacturers Type (Tier 1, Tier 2, and Tier 3) & (based on the Production Value of 2023)

Table 17. Major Manufacturers of Air-Cooled

Table 18. Major Manufacturers of Water-Cooled

Table 19. Global Hydrogen and Fuel Cells Production by type 2019 VS 2023 VS 2030 (MW)

Table 20. Global Hydrogen and Fuel Cells Production by type (2019-2024) & (MW)

Table 21. Global Hydrogen and Fuel Cells Production by type (2025-2030) & (MW)

Table 22. Global Hydrogen and Fuel Cells Production Market Share by type (2019-2024)

Table 23. Global Hydrogen and Fuel Cells Production Market Share by type (2025-2030)

Table 24. Global Hydrogen and Fuel Cells Production Value by type 2019 VS 2023 VS

2030 (MW)

Table 25. Global Hydrogen and Fuel Cells Production Value by type (2019-2024) & (MW)

Table 26. Global Hydrogen and Fuel Cells Production Value by type (2025-2030) & (MW)

Table 27. Global Hydrogen and Fuel Cells Production Value Market Share by type (2019-2024)

Table 28. Global Hydrogen and Fuel Cells Production Value Market Share by type (2025-2030)

Table 29. Major Manufacturers of Stationary

Table 30. Major Manufacturers of Transport

Table 31. Major Manufacturers of Portable

Table 32. Global Hydrogen and Fuel Cells Production by application 2019 VS 2023 VS 2030 (MW)

Table 33. Global Hydrogen and Fuel Cells Production by application (2019-2024) & (MW)

Table 34. Global Hydrogen and Fuel Cells Production by application (2025-2030) & (MW)

Table 35. Global Hydrogen and Fuel Cells Production Market Share by application (2019-2024)

Table 36. Global Hydrogen and Fuel Cells Production Market Share by application (2025-2030)

Table 37. Global Hydrogen and Fuel Cells Production Value by application 2019 VS 2023 VS 2030 (MW)

Table 38. Global Hydrogen and Fuel Cells Production Value by application (2019-2024) & (MW)

Table 39. Global Hydrogen and Fuel Cells Production Value by application (2025-2030) & (MW)

Table 40. Global Hydrogen and Fuel Cells Production Value Market Share by application (2019-2024)

Table 41. Global Hydrogen and Fuel Cells Production Value Market Share by application (2025-2030)

Table 42. Panasonic Company Information

Table 43. Panasonic Business Overview

Table 44. Panasonic Hydrogen and Fuel Cells Production (MW), Value (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 45. Panasonic Hydrogen and Fuel Cells Product Portfolio

Table 46. Panasonic Recent Development

Table 47. Plug Power Company Information

Table 48. Plug Power Business Overview

Table 49. Plug Power Hydrogen and Fuel Cells Production (MW), Value (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 50. Plug Power Hydrogen and Fuel Cells Product Portfolio

Table 51. Plug Power Recent Development

Table 52. Toshiba ESS Company Information

Table 53. Toshiba ESS Business Overview

Table 54. Toshiba ESS Hydrogen and Fuel Cells Production (MW), Value (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 55. Toshiba ESS Hydrogen and Fuel Cells Product Portfolio

Table 56. Toshiba ESS Recent Development

Table 57. Ballard Company Information

Table 58. Ballard Business Overview

Table 59. Ballard Hydrogen and Fuel Cells Production (MW), Value (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 60. Ballard Hydrogen and Fuel Cells Product Portfolio

Table 61. Ballard Recent Development

Table 62. SinoHytec Company Information

Table 63. SinoHytec Business Overview

Table 64. SinoHytec Hydrogen and Fuel Cells Production (MW), Value (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 65. SinoHytec Hydrogen and Fuel Cells Product Portfolio

Table 66. SinoHytec Recent Development

Table 67. Hydrogenics Company Information

Table 68. Hydrogenics Business Overview

Table 69. Hydrogenics Hydrogen and Fuel Cells Production (MW), Value (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 70. Hydrogenics Hydrogen and Fuel Cells Product Portfolio

Table 71. Hydrogenics Recent Development

Table 72. Honda Company Information

Table 73. Honda Business Overview

Table 74. Honda Hydrogen and Fuel Cells Production (MW), Value (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

Table 75. Honda Hydrogen and Fuel Cells Product Portfolio

Table 76. Honda Recent Development

Table 77. Hyundai Mobis Company Information

Table 78. Hyundai Mobis Business Overview

Table 79. Hyundai Mobis Hydrogen and Fuel Cells Production (MW), Value (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)

- Table 80. Hyundai Mobis Hydrogen and Fuel Cells Product Portfolio
- Table 81. Hyundai Mobis Recent Development
- Table 82. Toyota Denso Company Information
- Table 83. Toyota Denso Business Overview
- Table 84. Toyota Denso Hydrogen and Fuel Cells Production (MW), Value (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)
- Table 85. Toyota Denso Hydrogen and Fuel Cells Product Portfolio
- Table 86. Toyota Denso Recent Development
- Table 87. Elring Klinger Company Information
- Table 88. Elring Klinger Business Overview
- Table 89. Elring Klinger Hydrogen and Fuel Cells Production (MW), Value (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)
- Table 90. Elring Klinger Hydrogen and Fuel Cells Product Portfolio
- Table 91. Elring Klinger Recent Development
- Table 92. Bosch/Powercell Company Information
- Table 93. Bosch/Powercell Business Overview
- Table 94. Bosch/Powercell Hydrogen and Fuel Cells Production (MW), Value (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)
- Table 95. Bosch/Powercell Hydrogen and Fuel Cells Product Portfolio
- Table 96. Bosch/Powercell Recent Development
- Table 97. Symbio Company Information
- Table 98. Symbio Business Overview
- Table 99. Symbio Hydrogen and Fuel Cells Production (MW), Value (US\$ Million), Price (USD/KW) and Gross Margin (2019-2024)
- Table 100. Symbio Hydrogen and Fuel Cells Product Portfolio
- Table 101. Symbio Recent Development
- Table 102. Global Hydrogen and Fuel Cells Production by Region: 2019 VS 2023 VS 2030 (MW)
- Table 103. Global Hydrogen and Fuel Cells Production by Region (2019-2024) & (MW)
- Table 104. Global Hydrogen and Fuel Cells Production Market Share by Region (2019-2024)
- Table 105. Global Hydrogen and Fuel Cells Production Forecast by Region (2025-2030) & (MW)
- Table 106. Global Hydrogen and Fuel Cells Production Market Share Forecast by Region (2025-2030)
- Table 107. Global Hydrogen and Fuel Cells Production Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)
- Table 108. Global Hydrogen and Fuel Cells Production Value by Region (2019-2024) & (US\$ Million)

Table 109. Global Hydrogen and Fuel Cells Production Value Forecast by Region (2025-2030) & (US\$ Million)

Table 110. Global Hydrogen and Fuel Cells Production Value Share Forecast by Region: (2025-2030) & (US\$ Million)

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

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

Table 113. Global Hydrogen and Fuel Cells Consumption by Region: 2019 VS 2023 VS 2030 (MW)

Table 114. Global Hydrogen and Fuel Cells Consumption by Region (2019-2024) & (MW)

Table 115. Global Hydrogen and Fuel Cells Consumption Market Share by Region (2019-2024)

Table 116. Global Hydrogen and Fuel Cells Consumption Forecasted by Region (2025-2030) & (MW)

Table 117. Global Hydrogen and Fuel Cells Consumption Forecasted Market Share by Region (2025-2030)

Table 118. North America Hydrogen and Fuel Cells Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (MW)

Table 119. North America Hydrogen and Fuel Cells Consumption by Country (2019-2024) & (MW)

Table 120. North America Hydrogen and Fuel Cells Consumption by Country (2025-2030) & (MW)

Table 121. Europe Hydrogen and Fuel Cells Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (MW)

Table 122. Europe Hydrogen and Fuel Cells Consumption by Country (2019-2024) & (MW)

Table 123. Europe Hydrogen and Fuel Cells Consumption by Country (2025-2030) & (MW)

Table 124. Asia Pacific Hydrogen and Fuel Cells Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (MW)

Table 125. Asia Pacific Hydrogen and Fuel Cells Consumption by Country (2019-2024) & (MW)

Table 126. Asia Pacific Hydrogen and Fuel Cells Consumption by Country (2025-2030) & (MW)

Table 127. LAMEA Hydrogen and Fuel Cells Consumption Growth Rate by Country: 2019 VS 2023 VS 2030 (MW)

Table 128. LAMEA Hydrogen and Fuel Cells Consumption by Country (2019-2024) &

(MW)

Table 129. LAMEA Hydrogen and Fuel Cells Consumption by Country (2025-2030) &

(MW)

Table 130. Key Raw Materials

Table 131. Raw Materials Key Suppliers

Table 132. Hydrogen and Fuel Cells Distributors List

Table 133. Hydrogen and Fuel Cells Customers List

Table 134. Research Programs/Design for This Report

Table 135. Authors List of This Report

Table 136. Secondary Sources

Table 137. Primary Sources

List Of Figures

LIST OF FIGURES

- Figure 1. Hydrogen and Fuel Cells Product Picture
- Figure 2. Global Hydrogen and Fuel Cells Production Value (US\$ Million), 2019 VS 2023 VS 2030
- Figure 3. Global Hydrogen and Fuel Cells Production Value (2019-2030) & (US\$ Million)
- Figure 4. Global Hydrogen and Fuel Cells Production Capacity (2019-2030) & (MW)
- Figure 5. Global Hydrogen and Fuel Cells Production (2019-2030) & (MW)
- Figure 6. Global Hydrogen and Fuel Cells Average Price (USD/KW) & (2019-2030)
- Figure 7. Global Top 5 and 10 Hydrogen and Fuel Cells Players Market Share by Production Value in 2023
- Figure 8. Manufacturers Type (Tier 1, Tier 2, and Tier 3): 2019 VS 2023
- Figure 9. Air-Cooled Picture
- Figure 10. Water-Cooled Picture
- Figure 11. Global Hydrogen and Fuel Cells Production by Type (2019 VS 2023 VS 2030) & (MW)
- Figure 12. Global Hydrogen and Fuel Cells Production Market Share 2019 VS 2023 VS 2030
- Figure 13. Global Hydrogen and Fuel Cells Production Market Share by Type (2019-2030)
- Figure 14. Global Hydrogen and Fuel Cells Production Value by Type (2019 VS 2023 VS 2030) & (MW)
- Figure 15. Global Hydrogen and Fuel Cells Production Value Share 2019 VS 2023 VS 2030
- Figure 16. Global Hydrogen and Fuel Cells Production Value Share by Type (2019-2030)
- Figure 17. Stationary Picture
- Figure 18. Transport Picture
- Figure 19. Portable Picture
- Figure 20. Global Hydrogen and Fuel Cells Production by Application (2019 VS 2023 VS 2030) & (MW)
- Figure 21. Global Hydrogen and Fuel Cells Production Market Share 2019 VS 2023 VS 2030
- Figure 22. Global Hydrogen and Fuel Cells Production Market Share by Application (2019-2030)
- Figure 23. Global Hydrogen and Fuel Cells Production Value by Application (2019 VS 2023 VS 2030) & (MW)

Figure 24. Global Hydrogen and Fuel Cells Production Value Share 2019 VS 2023 VS 2030

Figure 25. Global Hydrogen and Fuel Cells Production Value Share by Application (2019-2030)

Figure 26. Global Hydrogen and Fuel Cells Production by Region: 2019 VS 2023 VS 2030 (MW)

Figure 27. Global Hydrogen and Fuel Cells Production Market Share by Region: 2019 VS 2023 VS 2030

Figure 28. Global Hydrogen and Fuel Cells Production Value Comparison by Region: 2019 VS 2023 VS 2030 (US\$ Million)

Figure 29. Global Hydrogen and Fuel Cells Production Value Share by Region: 2019 VS 2023 VS 2030

Figure 30. North America Hydrogen and Fuel Cells Production Value (2019-2030) & (US\$ Million)

Figure 31. Europe Hydrogen and Fuel Cells Production Value (2019-2030) & (US\$ Million)

Figure 32. Asia-Pacific Hydrogen and Fuel Cells Production Value (2019-2030) & (US\$ Million)

Figure 33. Latin America Hydrogen and Fuel Cells Production Value (2019-2030) & (US\$ Million)

Figure 34. Middle East & Africa Hydrogen and Fuel Cells Production Value (2019-2030) & (US\$ Million)

Figure 35. North America Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

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

Figure 37. U.S. Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 38. Canada Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 39. Europe Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 40. Europe Hydrogen and Fuel Cells Consumption Market Share by Country (2019-2030)

Figure 41. Germany Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 42. France Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 43. U.K. Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) &

(MW)

Figure 44. Italy Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 45. Netherlands Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 46. Asia Pacific Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 47. Asia Pacific Hydrogen and Fuel Cells Consumption Market Share by Country (2019-2030)

Figure 48. China Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 49. Japan Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 50. South Korea Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 51. Southeast Asia Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 52. India Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 53. Australia Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 54. LAMEA Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 55. LAMEA Hydrogen and Fuel Cells Consumption Market Share by Country (2019-2030)

Figure 56. Mexico Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 57. Brazil Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 58. Turkey Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 59. GCC Countries Hydrogen and Fuel Cells Consumption and Growth Rate (2019-2030) & (MW)

Figure 60. Hydrogen and Fuel Cells Value Chain

Figure 61. Manufacturing Cost Structure

Figure 62. Hydrogen and Fuel Cells Production Mode & Process

Figure 63. Direct Comparison with Distribution Share

Figure 64. Distributors Profiles

Figure 65. Years Considered

Figure 66. Research Process

Figure 67. Key Executives Interviewed

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