

# Global Hydrogen Fuel Cell Train Market Growth (Status and Outlook) 2024-2030

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## Abstracts

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According to this study, the global Hydrogen Fuel Cell Train market size will reach US\$ million by 2030.

A hydrogen fuel cell is a power generation device that directly converts the chemical energy of hydrogen and oxygen into electrical energy. The basic principle is the reverse reaction of electrolyzed water, which supplies hydrogen and oxygen to the anode and cathode respectively. After hydrogen diffuses out through the anode and reacts with the electrolyte, electrons are released to the cathode through an external load. Hydrogen fuel cell trains are trains that use hydrogen fuel cells as power. On the basis of maintaining train performance, they are more environmentally friendly and energy-saving.

According to data released by the China Association of Automobile Manufacturers, in December 2022, the production and sales of hydrogen fuel cell vehicles in China was 653 and 607, respectively. In the whole year of 2022, the production and sales of hydrogen fuel cell vehicles was 3,626 and 3,367, a year-on-year increase of 105.4% and 112.8%, respectively. According to our Fuel Cell Research Center, by the end of 2022, the number of fuel cell vehicles in the world had reached 67,000 units, a year-on-year increase of 36.6%. Among them, the number of fuel cell vehicles in China was 12,682 units.

This report presents a comprehensive overview, market shares, and growth opportunities of Hydrogen Fuel Cell Train market by product type, application, key players and key regions and countries.

Segmentation by product type:

Proton Exchange Membrane

Phosphoric Acid Fuel Cell

Others

Segmentation by Application:

Passenger Train

Freight Train

This report also splits the market by region:

United States

China

Europe

Other regions:

Japan

South Korea

Southeast Asia

Rest of world

The report also presents the market competition landscape and a corresponding detailed analysis of the major players in the market. The key players covered in this report:

Honda

Toyota

Hyundai

Daimler

Audi

BMW

Volvo

Ballard Power Systems

General Motors

## 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

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global Hydrogen Fuel Cell Train Market Size 2024-2030
  - 2.1.2 Hydrogen Fuel Cell Train Market Size CAGR by Region
- 2.2 Hydrogen Fuel Cell Train Segment by Type
  - 2.2.1 Proton Exchange Membrane
  - 2.2.2 Phosphoric Acid Fuel Cell
  - 2.2.3 Others
- 2.3 Hydrogen Fuel Cell Train Market Size by Type
  - 2.3.1 Global Hydrogen Fuel Cell Train Market Size Market Share by Type (2024-2030)
  - 2.3.2 Global Hydrogen Fuel Cell Train Market Size Growth Rate by Type (2024-2030)
- 2.4 Hydrogen Fuel Cell Train Segment by Application
  - 2.4.1 Passenger Train
  - 2.4.2 Freight Train
- 2.5 Hydrogen Fuel Cell Train Market Size by Application
  - 2.5.1 Global Hydrogen Fuel Cell Train Market Size Market Share by Application (2024-2030)
  - 2.5.2 Global Hydrogen Fuel Cell Train Market Size Growth Rate by Application (2024-2030)

### 3 HYDROGEN FUEL CELL TRAIN KEY PLAYERS

- 3.1 Date of Key Players Enter into Hydrogen Fuel Cell Train
- 3.2 Key Players Hydrogen Fuel Cell Train Product Offered
- 3.3 Key Players Hydrogen Fuel Cell Train Funding/Investment Analysis
- 3.4 Funding/Investment

- 3.4.1 Funding/Investment by Regions
- 3.4.2 Funding/Investment by End-Industry
- 3.5 Key Players Hydrogen Fuel Cell Train Valuation & Market Capitalization
- 3.6 Key Players Mergers & Acquisitions, Expansion Plans
- 3.7 Market Ranking
- 3.8 New Product/Technology Launches
- 3.9 Partnerships, Agreements, and Collaborations
- 3.10 Mergers and Acquisitions

## **4 HYDROGEN FUEL CELL TRAIN BY REGIONS**

- 4.1 Hydrogen Fuel Cell Train Market Size by Regions (2024-2030)
- 4.2 United States Hydrogen Fuel Cell Train Market Size Growth (2024-2030)
- 4.3 China Hydrogen Fuel Cell Train Market Size Growth (2024-2030)
- 4.4 Europe Hydrogen Fuel Cell Train Market Size Growth (2024-2030)
- 4.5 Rest of World Hydrogen Fuel Cell Train Market Size Growth (2024-2030)

## **5 UNITED STATES**

- 5.1 United States Hydrogen Fuel Cell Train Market Size by Type (2024-2030)
- 5.2 United States Hydrogen Fuel Cell Train Market Size by Application (2024-2030)

## **6 EUROPE**

- 6.1 Europe Hydrogen Fuel Cell Train Market Size by Type (2024-2030)
- 6.2 Europe Hydrogen Fuel Cell Train Market Size by Application (2024-2030)

## **7 CHINA**

- 7.1 China Hydrogen Fuel Cell Train Market Size by Type (2024-2030)
- 7.2 China Hydrogen Fuel Cell Train Market Size by Application (2024-2030)

## **8 REST OF WORLD**

- 8.1 Rest of World Hydrogen Fuel Cell Train Market Size by Type (2024-2030)
- 8.2 Rest of World Hydrogen Fuel Cell Train Market Size by Application (2024-2030)
- 8.3 Japan
- 8.4 South Korea
- 8.5 Southeast Asia

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

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

## **10 KEY INVESTORS IN HYDROGEN FUEL CELL TRAIN**

10.1 Company A

10.1.1 Company A Company Details

10.1.2 Company Description

10.1.3 Companies Invested by Company A

10.1.4 Company A Key Development and Market Layout

10.2 Company B

10.2.1 Company B Company Details

10.2.2 Company Description

10.2.3 Companies Invested by Company B

10.2.4 Company B Key Development and Market Layout

10.3 Company C

10.3.1 Company C Company Details

10.3.2 Company Description

10.3.3 Companies Invested by Company C

10.3.4 Company C Key Development and Market Layout

10.4 Company D

10.5 .....

## **11 KEY PLAYERS ANALYSIS**

11.1 Honda

11.1.1 Honda Company Details

11.1.2 Honda Hydrogen Fuel Cell Train Product Offered

11.1.3 Honda Hydrogen Fuel Cell Train Market Size (2024 VS 2030)

11.1.4 Honda Main Business Overview

11.1.5 Honda News

11.2 Toyota

11.2.1 Toyota Company Details

11.2.2 Toyota Hydrogen Fuel Cell Train Product Offered

11.2.3 Toyota Hydrogen Fuel Cell Train Market Size (2024 VS 2030)

- 11.2.4 Toyota Main Business Overview
- 11.2.5 Toyota News
- 11.3 Hyundai
  - 11.3.1 Hyundai Company Details
  - 11.3.2 Hyundai Hydrogen Fuel Cell Train Product Offered
  - 11.3.3 Hyundai Hydrogen Fuel Cell Train Market Size (2024 VS 2030)
  - 11.3.4 Hyundai Main Business Overview
  - 11.3.5 Hyundai News
- 11.4 Daimler
  - 11.4.1 Daimler Company Details
  - 11.4.2 Daimler Hydrogen Fuel Cell Train Product Offered
  - 11.4.3 Daimler Hydrogen Fuel Cell Train Market Size (2024 VS 2030)
  - 11.4.4 Daimler Main Business Overview
  - 11.4.5 Daimler News
- 11.5 Audi
  - 11.5.1 Audi Company Details
  - 11.5.2 Audi Hydrogen Fuel Cell Train Product Offered
  - 11.5.3 Audi Hydrogen Fuel Cell Train Market Size (2024 VS 2030)
  - 11.5.4 Audi Main Business Overview
  - 11.5.5 Audi News
- 11.6 BMW
  - 11.6.1 BMW Company Details
  - 11.6.2 BMW Hydrogen Fuel Cell Train Product Offered
  - 11.6.3 BMW Hydrogen Fuel Cell Train Market Size (2024 VS 2030)
  - 11.6.4 BMW Main Business Overview
  - 11.6.5 BMW News
- 11.7 Volvo
  - 11.7.1 Volvo Company Details
  - 11.7.2 Volvo Hydrogen Fuel Cell Train Product Offered
  - 11.7.3 Volvo Hydrogen Fuel Cell Train Market Size (2024 VS 2030)
  - 11.7.4 Volvo Main Business Overview
  - 11.7.5 Volvo News
- 11.8 Ballard Power Systems
  - 11.8.1 Ballard Power Systems Company Details
  - 11.8.2 Ballard Power Systems Hydrogen Fuel Cell Train Product Offered
  - 11.8.3 Ballard Power Systems Hydrogen Fuel Cell Train Market Size (2024 VS 2030)
  - 11.8.4 Ballard Power Systems Main Business Overview
  - 11.8.5 Ballard Power Systems News
- 11.9 General Motors

- 11.9.1 General Motors Company Details
- 11.9.2 General Motors Hydrogen Fuel Cell Train Product Offered
- 11.9.3 General Motors Hydrogen Fuel Cell Train Market Size (2024 VS 2030)
- 11.9.4 General Motors Main Business Overview
- 11.9.5 General Motors News

## **12 RESEARCH FINDINGS AND CONCLUSION**



## List Of Tables

### LIST OF TABLES

Table 1. Hydrogen Fuel Cell Train Market Size CAGR by Region (2024-2030) (\$ Millions)

Table 2. Major Players of Proton Exchange Membrane

Table 3. Major Players of Phosphoric Acid Fuel Cell

Table 4. Major Players of Others

Table 5. Global Hydrogen Fuel Cell Train Market Size by Type (2024-2030) (\$ Millions)

Table 6. Global Hydrogen Fuel Cell Train Market Size Market Share by Type (2024-2030)

Table 7. Global Hydrogen Fuel Cell Train Market Size by Application (2024-2030) (\$ Millions)

Table 8. Global Hydrogen Fuel Cell Train Market Size Market Share by Application (2024-2030)

Table 9. Date of Global Key Players Enter into Hydrogen Fuel Cell Train Market

Table 10. Global Key Players Hydrogen Fuel Cell Train Product Offered

Table 11. Key Players Hydrogen Fuel Cell Train Funding/Investment (\$ Millions)

Table 12. Funding/Investment by Regions

Table 13. Funding/Investment by End Industry

Table 14. Key Players Hydrogen Fuel Cell Train Valuation & Market Capitalization (\$ Millions)

Table 15. Key Players Mergers & Acquisitions, Expansion Plans

Table 16. Hydrogen Fuel Cell Train New Product/Technology Launches

Table 17. Hydrogen Fuel Cell Train Industry Partnerships, Agreements, and Collaborations

Table 18. Hydrogen Fuel Cell Train Industry Mergers and Acquisitions

Table 19. Global Hydrogen Fuel Cell Train Market Size by Regions 2024-2030 (\$ Millions)

Table 20. Global Hydrogen Fuel Cell Train Market Size Market Share by Regions 2024-2030

Table 21. United States Hydrogen Fuel Cell Train Market Size by Type (2024-2030) (\$ Millions)

Table 22. United States Hydrogen Fuel Cell Train Market Size Market Share by Type (2024-2030)

Table 23. United States Hydrogen Fuel Cell Train Market Size by Application (2024-2030) (\$ Millions)

Table 24. United States Hydrogen Fuel Cell Train Market Size Market Share by

Application (2024-2030)

Table 25. Europe Hydrogen Fuel Cell Train Market Size by Type (2024-2030) (\$ Millions)

Table 26. Europe Hydrogen Fuel Cell Train Market Size Market Share by Type (2024-2030)

Table 27. Europe Hydrogen Fuel Cell Train Market Size by Application (2024-2030) (\$ Millions)

Table 28. Europe Hydrogen Fuel Cell Train Market Size Market Share by Application (2024-2030)

Table 29. China Hydrogen Fuel Cell Train Market Size by Type (2024-2030) (\$ Millions)

Table 30. China Hydrogen Fuel Cell Train Market Size Market Share by Type (2024-2030)

Table 31. China Hydrogen Fuel Cell Train Market Size by Application (2024-2030) (\$ Millions)

Table 32. China Hydrogen Fuel Cell Train Market Size Market Share by Application (2024-2030)

Table 33. Rest of World Hydrogen Fuel Cell Train Market Size by Type (2024-2030) (\$ Millions)

Table 34. Rest of World Hydrogen Fuel Cell Train Market Size Market Share by Type (2024-2030)

Table 35. Rest of World Hydrogen Fuel Cell Train Market Size by Application (2024-2030) (\$ Millions)

Table 36. Rest of World Hydrogen Fuel Cell Train Market Size Market Share by Application (2024-2030)

Table 37. Key Market Drivers & Growth Opportunities of Hydrogen Fuel Cell Train

Table 38. Key Market Challenges & Risks of Hydrogen Fuel Cell Train

Table 39. Key Industry Trends of Hydrogen Fuel Cell Train

Table 40. Company A Company Details

Table 41. Companies Invested by Company A

Table 42. Company A Key Development and Market Layout

Table 43. Company B Company Details

Table 44. Companies Invested by Company B

Table 45. Company B Key Development and Market Layout

Table 46. Company C Company Details

Table 47. Companies Invested by Company C

Table 48. Company C Key Development and Market Layout

Table 49. Company C Company Details

Table 50. Companies Invested by Company C

Table 51. Company C Key Development and Market Layout

- Table 52. Honda Basic Information, Head Office, Major Market Areas and Its Competitors
- Table 53. Honda Hydrogen Fuel Cell Train Market Size (2024 VS 2030)
- Table 54. Toyota Basic Information, Head Office, Major Market Areas and Its Competitors
- Table 55. Toyota Hydrogen Fuel Cell Train Market Size (2024 VS 2030)
- Table 56. Hyundai Basic Information, Head Office, Major Market Areas and Its Competitors
- Table 57. Hyundai Hydrogen Fuel Cell Train Market Size (2024 VS 2030)
- Table 58. Daimler Basic Information, Head Office, Major Market Areas and Its Competitors
- Table 59. Daimler Hydrogen Fuel Cell Train Market Size (2024 VS 2030)
- Table 60. Audi Basic Information, Head Office, Major Market Areas and Its Competitors
- Table 61. Audi Hydrogen Fuel Cell Train Market Size (2024 VS 2030)
- Table 62. BMW Basic Information, Head Office, Major Market Areas and Its Competitors
- Table 63. BMW Hydrogen Fuel Cell Train Market Size (2024 VS 2030)
- Table 64. Volvo Basic Information, Head Office, Major Market Areas and Its Competitors
- Table 65. Volvo Hydrogen Fuel Cell Train Market Size (2024 VS 2030)
- Table 66. Ballard Power Systems Basic Information, Head Office, Major Market Areas and Its Competitors
- Table 67. Ballard Power Systems Hydrogen Fuel Cell Train Market Size (2024 VS 2030)
- Table 68. General Motors Basic Information, Head Office, Major Market Areas and Its Competitors
- Table 69. General Motors Hydrogen Fuel Cell Train Market Size (2024 VS 2030)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Hydrogen Fuel Cell Train
- Figure 2. Hydrogen Fuel Cell Train Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Hydrogen Fuel Cell Train Market Size Growth Rate 2024-2030 (\$ Millions)
- Figure 7. Hydrogen Fuel Cell Train Market Size by Region (2024 & 2030) (\$ millions)
- Figure 8. Global Hydrogen Fuel Cell Train Market Size Market Share by Type (2024-2030)
- Figure 9. Global Proton Exchange Membrane Market Size Growth Rate
- Figure 10. Global Phosphoric Acid Fuel Cell Market Size Growth Rate
- Figure 11. Global Others Market Size Growth Rate
- Figure 12. Hydrogen Fuel Cell Train in Passenger Train
- Figure 13. Global Hydrogen Fuel Cell Train Market: Passenger Train (2024-2030) (\$ Millions)
- Figure 14. Hydrogen Fuel Cell Train in Freight Train
- Figure 15. Global Hydrogen Fuel Cell Train Market: Freight Train (2024-2030) (\$ Millions)
- Figure 16. Global Hydrogen Fuel Cell Train Market Size Market Share by Application (2024-2030)
- Figure 17. Global Hydrogen Fuel Cell Train Market Size in Passenger Train Growth Rate
- Figure 18. Global Hydrogen Fuel Cell Train Market Size in Freight Train Growth Rate
- Figure 19. Funding/Investment
- Figure 20. Global Hydrogen Fuel Cell Train Market Size Market Share by Regions 2024-2030
- Figure 21. United States Hydrogen Fuel Cell Train Market Size 2024-2030 (\$ Millions)
- Figure 22. China Hydrogen Fuel Cell Train Market Size 2024-2030 (\$ Millions)
- Figure 23. Europe Hydrogen Fuel Cell Train Market Size 2024-2030 (\$ Millions)
- Figure 24. Rest of World Hydrogen Fuel Cell Train Market Size 2024-2030 (\$ Millions)
- Figure 25. United States Hydrogen Fuel Cell Train Consumption Market Share by Type in 2030
- Figure 26. United States Hydrogen Fuel Cell Train Market Size Market Share by Application in 2030

Figure 27. China Hydrogen Fuel Cell Train Consumption Market Share by Type in 2030

Figure 28. China Hydrogen Fuel Cell Train Market Size Market Share by Application in 2030

Figure 29. Europe Hydrogen Fuel Cell Train Consumption Market Share by Type in 2030

Figure 30. Europe Hydrogen Fuel Cell Train Market Size Market Share by Application in 2030

Figure 31. Rest of World Hydrogen Fuel Cell Train Consumption Market Share by Type in 2030

Figure 32. Rest of World Hydrogen Fuel Cell Train Market Size Market Share by Application in 2030

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