

Global Hydrogen-powered Semi-Trucks Supply, Demand and Key Producers, 2024-2030

<https://marketpublishers.com/r/G0338D6C8FD2EN.html>

Date: March 2024

Pages: 147

Price: US\$ 4,480.00 (Single User License)

ID: G0338D6C8FD2EN

Abstracts

The global Hydrogen-powered Semi-Trucks market size is expected to reach \$ million by 2030, rising at a market growth of % CAGR during the forecast period (2024-2030).

A hydrogen-powered heavy-duty truck, also known as a hydrogen fuel cell truck, is a type of commercial truck that uses hydrogen as fuel to generate electricity through a chemical reaction in a fuel cell. The electricity produced then powers an electric motor, which in turn drives the vehicle's propulsion system.

These trucks typically consist of a hydrogen storage system, a fuel cell stack, and an electric drivetrain. The hydrogen is stored in high-pressure tanks or cryogenic storage systems on-board the truck. Within the fuel cell stack, hydrogen is combined with oxygen from the air to produce electricity. This electrochemical conversion process, known as an oxygen reduction reaction, creates only water vapor as a byproduct, making hydrogen fuel cell trucks a zero-emission option.

This report studies the global Hydrogen-powered Semi-Trucks production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Hydrogen-powered Semi-Trucks, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2023 as the base year. This report explores demand trends and competition, as well as details the characteristics of Hydrogen-powered Semi-Trucks that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Hydrogen-powered Semi-Trucks total production and demand, 2019-2030, (K Units)

Global Hydrogen-powered Semi-Trucks total production value, 2019-2030, (USD Million)

Global Hydrogen-powered Semi-Trucks production by region & country, production, value, CAGR, 2019-2030, (USD Million) & (K Units)

Global Hydrogen-powered Semi-Trucks consumption by region & country, CAGR, 2019-2030 & (K Units)

U.S. VS China: Hydrogen-powered Semi-Trucks domestic production, consumption, key domestic manufacturers and share

Global Hydrogen-powered Semi-Trucks production by manufacturer, production, price, value and market share 2019-2024, (USD Million) & (K Units)

Global Hydrogen-powered Semi-Trucks production by Type, production, value, CAGR, 2019-2030, (USD Million) & (K Units)

Global Hydrogen-powered Semi-Trucks production by Application production, value, CAGR, 2019-2030, (USD Million) & (K Units).

This reports profiles key players in the global Hydrogen-powered Semi-Trucks market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Toyota, Hyundai Hydrogen Mobility, Nikola, Hyzon Motors Inc, Daimler Truck, Volvo Group, SAIC Motor Corporation Limited, Weichai Power Co.,Ltd. and MC Heavy Duty Vehicle Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Hydrogen-powered Semi-Trucks market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2019-2030 by year with 2023 as the base year, 2024 as the estimate year, and 2025-2030 as the forecast year.

Global Hydrogen-powered Semi-Trucks Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Hydrogen-powered Semi-Trucks Market, Segmentation by Type

Hydrogen-powered Class 8 Truck

Hydrogen-powered Refuse Truck

Others

Global Hydrogen-powered Semi-Trucks Market, Segmentation by Application

Logistics and Transportation

E-commerce and Retail

Construction and Manufacturing

Waste Management

Public Transportation

Other

Companies Profiled:

Toyota

Hyundai Hydrogen Mobility

Nikola

Hyzon Motors Inc

Daimler Truck

Volvo Group

SAIC Motor Corporation Limited

Weichai Power Co.,Ltd.

MC Heavy Duty Vehicle Co., Ltd.

Dayun Automobile Co ., Ltd.

Foshan Feichi Motor Technology Co., Ltd.

PACCAR

Qingling Motors

Beiqi Foton Motor Co., Ltd.

Sinotruk

Key Questions Answered

1. How big is the global Hydrogen-powered Semi-Trucks market?
2. What is the demand of the global Hydrogen-powered Semi-Trucks market?
3. What is the year over year growth of the global Hydrogen-powered Semi-Trucks market?
4. What is the production and production value of the global Hydrogen-powered Semi-Trucks market?
5. Who are the key producers in the global Hydrogen-powered Semi-Trucks market?

Contents

1 SUPPLY SUMMARY

- 1.1 Hydrogen-powered Semi-Trucks Introduction
- 1.2 World Hydrogen-powered Semi-Trucks Supply & Forecast
 - 1.2.1 World Hydrogen-powered Semi-Trucks Production Value (2019 & 2023 & 2030)
 - 1.2.2 World Hydrogen-powered Semi-Trucks Production (2019-2030)
 - 1.2.3 World Hydrogen-powered Semi-Trucks Pricing Trends (2019-2030)
- 1.3 World Hydrogen-powered Semi-Trucks Production by Region (Based on Production Site)
 - 1.3.1 World Hydrogen-powered Semi-Trucks Production Value by Region (2019-2030)
 - 1.3.2 World Hydrogen-powered Semi-Trucks Production by Region (2019-2030)
 - 1.3.3 World Hydrogen-powered Semi-Trucks Average Price by Region (2019-2030)
 - 1.3.4 North America Hydrogen-powered Semi-Trucks Production (2019-2030)
 - 1.3.5 Europe Hydrogen-powered Semi-Trucks Production (2019-2030)
 - 1.3.6 China Hydrogen-powered Semi-Trucks Production (2019-2030)
 - 1.3.7 Japan Hydrogen-powered Semi-Trucks Production (2019-2030)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Hydrogen-powered Semi-Trucks Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Hydrogen-powered Semi-Trucks Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Hydrogen-powered Semi-Trucks Demand (2019-2030)
- 2.2 World Hydrogen-powered Semi-Trucks Consumption by Region
 - 2.2.1 World Hydrogen-powered Semi-Trucks Consumption by Region (2019-2024)
 - 2.2.2 World Hydrogen-powered Semi-Trucks Consumption Forecast by Region (2025-2030)
- 2.3 United States Hydrogen-powered Semi-Trucks Consumption (2019-2030)
- 2.4 China Hydrogen-powered Semi-Trucks Consumption (2019-2030)
- 2.5 Europe Hydrogen-powered Semi-Trucks Consumption (2019-2030)
- 2.6 Japan Hydrogen-powered Semi-Trucks Consumption (2019-2030)
- 2.7 South Korea Hydrogen-powered Semi-Trucks Consumption (2019-2030)
- 2.8 ASEAN Hydrogen-powered Semi-Trucks Consumption (2019-2030)
- 2.9 India Hydrogen-powered Semi-Trucks Consumption (2019-2030)

3 WORLD HYDROGEN-POWERED SEMI-TRUCKS MANUFACTURERS

COMPETITIVE ANALYSIS

- 3.1 World Hydrogen-powered Semi-Trucks Production Value by Manufacturer (2019-2024)
- 3.2 World Hydrogen-powered Semi-Trucks Production by Manufacturer (2019-2024)
- 3.3 World Hydrogen-powered Semi-Trucks Average Price by Manufacturer (2019-2024)
- 3.4 Hydrogen-powered Semi-Trucks Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Hydrogen-powered Semi-Trucks Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Hydrogen-powered Semi-Trucks in 2023
 - 3.5.3 Global Concentration Ratios (CR8) for Hydrogen-powered Semi-Trucks in 2023
- 3.6 Hydrogen-powered Semi-Trucks Market: Overall Company Footprint Analysis
 - 3.6.1 Hydrogen-powered Semi-Trucks Market: Region Footprint
 - 3.6.2 Hydrogen-powered Semi-Trucks Market: Company Product Type Footprint
 - 3.6.3 Hydrogen-powered Semi-Trucks Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Hydrogen-powered Semi-Trucks Production Value Comparison
 - 4.1.1 United States VS China: Hydrogen-powered Semi-Trucks Production Value Comparison (2019 & 2023 & 2030)
 - 4.1.2 United States VS China: Hydrogen-powered Semi-Trucks Production Value Market Share Comparison (2019 & 2023 & 2030)
- 4.2 United States VS China: Hydrogen-powered Semi-Trucks Production Comparison
 - 4.2.1 United States VS China: Hydrogen-powered Semi-Trucks Production Comparison (2019 & 2023 & 2030)
 - 4.2.2 United States VS China: Hydrogen-powered Semi-Trucks Production Market Share Comparison (2019 & 2023 & 2030)
- 4.3 United States VS China: Hydrogen-powered Semi-Trucks Consumption Comparison
 - 4.3.1 United States VS China: Hydrogen-powered Semi-Trucks Consumption Comparison (2019 & 2023 & 2030)
 - 4.3.2 United States VS China: Hydrogen-powered Semi-Trucks Consumption Market

Share Comparison (2019 & 2023 & 2030)

4.4 United States Based Hydrogen-powered Semi-Trucks Manufacturers and Market Share, 2019-2024

4.4.1 United States Based Hydrogen-powered Semi-Trucks Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Hydrogen-powered Semi-Trucks Production Value (2019-2024)

4.4.3 United States Based Manufacturers Hydrogen-powered Semi-Trucks Production (2019-2024)

4.5 China Based Hydrogen-powered Semi-Trucks Manufacturers and Market Share

4.5.1 China Based Hydrogen-powered Semi-Trucks Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Hydrogen-powered Semi-Trucks Production Value (2019-2024)

4.5.3 China Based Manufacturers Hydrogen-powered Semi-Trucks Production (2019-2024)

4.6 Rest of World Based Hydrogen-powered Semi-Trucks Manufacturers and Market Share, 2019-2024

4.6.1 Rest of World Based Hydrogen-powered Semi-Trucks Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Hydrogen-powered Semi-Trucks Production Value (2019-2024)

4.6.3 Rest of World Based Manufacturers Hydrogen-powered Semi-Trucks Production (2019-2024)

5 MARKET ANALYSIS BY TYPE

5.1 World Hydrogen-powered Semi-Trucks Market Size Overview by Type: 2019 VS 2023 VS 2030

5.2 Segment Introduction by Type

5.2.1 Hydrogen-powered Class 8 Truck

5.2.2 Hydrogen-powered Refuse Truck

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Hydrogen-powered Semi-Trucks Production by Type (2019-2030)

5.3.2 World Hydrogen-powered Semi-Trucks Production Value by Type (2019-2030)

5.3.3 World Hydrogen-powered Semi-Trucks Average Price by Type (2019-2030)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Hydrogen-powered Semi-Trucks Market Size Overview by Application: 2019 VS 2023 VS 2030

6.2 Segment Introduction by Application

6.2.1 Logistics and Transportation

6.2.2 E-commerce and Retail

6.2.3 Construction and Manufacturing

6.2.4 Waste Management

6.2.5 Public Transportation

6.2.6 Other

6.3 Market Segment by Application

6.3.1 World Hydrogen-powered Semi-Trucks Production by Application (2019-2030)

6.3.2 World Hydrogen-powered Semi-Trucks Production Value by Application (2019-2030)

6.3.3 World Hydrogen-powered Semi-Trucks Average Price by Application (2019-2030)

7 COMPANY PROFILES

7.1 Toyota

7.1.1 Toyota Details

7.1.2 Toyota Major Business

7.1.3 Toyota Hydrogen-powered Semi-Trucks Product and Services

7.1.4 Toyota Hydrogen-powered Semi-Trucks Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.1.5 Toyota Recent Developments/Updates

7.1.6 Toyota Competitive Strengths & Weaknesses

7.2 Hyundai Hydrogen Mobility

7.2.1 Hyundai Hydrogen Mobility Details

7.2.2 Hyundai Hydrogen Mobility Major Business

7.2.3 Hyundai Hydrogen Mobility Hydrogen-powered Semi-Trucks Product and Services

7.2.4 Hyundai Hydrogen Mobility Hydrogen-powered Semi-Trucks Production, Price, Value, Gross Margin and Market Share (2019-2024)

7.2.5 Hyundai Hydrogen Mobility Recent Developments/Updates

7.2.6 Hyundai Hydrogen Mobility Competitive Strengths & Weaknesses

7.3 Nikola

7.3.1 Nikola Details

7.3.2 Nikola Major Business

- 7.3.3 Nikola Hydrogen-powered Semi-Trucks Product and Services
- 7.3.4 Nikola Hydrogen-powered Semi-Trucks Production, Price, Value, Gross Margin and Market Share (2019-2024)
- 7.3.5 Nikola Recent Developments/Updates
- 7.3.6 Nikola Competitive Strengths & Weaknesses
- 7.4 Hyzon Motors Inc
 - 7.4.1 Hyzon Motors Inc Details
 - 7.4.2 Hyzon Motors Inc Major Business
 - 7.4.3 Hyzon Motors Inc Hydrogen-powered Semi-Trucks Product and Services
 - 7.4.4 Hyzon Motors Inc Hydrogen-powered Semi-Trucks Production, Price, Value, Gross Margin and Market Share (2019-2024)
 - 7.4.5 Hyzon Motors Inc Recent Developments/Updates
 - 7.4.6 Hyzon Motors Inc Competitive Strengths & Weaknesses
- 7.5 Daimler Truck
 - 7.5.1 Daimler Truck Details
 - 7.5.2 Daimler Truck Major Business
 - 7.5.3 Daimler Truck Hydrogen-powered Semi-Trucks Product and Services
 - 7.5.4 Daimler Truck Hydrogen-powered Semi-Trucks Production, Price, Value, Gross Margin and Market Share (2019-2024)
 - 7.5.5 Daimler Truck Recent Developments/Updates
 - 7.5.6 Daimler Truck Competitive Strengths & Weaknesses
- 7.6 Volvo Group
 - 7.6.1 Volvo Group Details
 - 7.6.2 Volvo Group Major Business
 - 7.6.3 Volvo Group Hydrogen-powered Semi-Trucks Product and Services
 - 7.6.4 Volvo Group Hydrogen-powered Semi-Trucks Production, Price, Value, Gross Margin and Market Share (2019-2024)
 - 7.6.5 Volvo Group Recent Developments/Updates
 - 7.6.6 Volvo Group Competitive Strengths & Weaknesses
- 7.7 SAIC Motor Corporation Limited
 - 7.7.1 SAIC Motor Corporation Limited Details
 - 7.7.2 SAIC Motor Corporation Limited Major Business
 - 7.7.3 SAIC Motor Corporation Limited Hydrogen-powered Semi-Trucks Product and Services
 - 7.7.4 SAIC Motor Corporation Limited Hydrogen-powered Semi-Trucks Production, Price, Value, Gross Margin and Market Share (2019-2024)
 - 7.7.5 SAIC Motor Corporation Limited Recent Developments/Updates
 - 7.7.6 SAIC Motor Corporation Limited Competitive Strengths & Weaknesses
- 7.8 Weichai Power Co.,Ltd.

- 7.8.1 Weichai Power Co.,Ltd. Details
- 7.8.2 Weichai Power Co.,Ltd. Major Business
- 7.8.3 Weichai Power Co.,Ltd. Hydrogen-powered Semi-Trucks Product and Services
- 7.8.4 Weichai Power Co.,Ltd. Hydrogen-powered Semi-Trucks Production, Price, Value, Gross Margin and Market Share (2019-2024)
- 7.8.5 Weichai Power Co.,Ltd. Recent Developments/Updates
- 7.8.6 Weichai Power Co.,Ltd. Competitive Strengths & Weaknesses
- 7.9 MC Heavy Duty Vehicle Co., Ltd.
- 7.9.1 MC Heavy Duty Vehicle Co., Ltd. Details
- 7.9.2 MC Heavy Duty Vehicle Co., Ltd. Major Business
- 7.9.3 MC Heavy Duty Vehicle Co., Ltd. Hydrogen-powered Semi-Trucks Product and Services
- 7.9.4 MC Heavy Duty Vehicle Co., Ltd. Hydrogen-powered Semi-Trucks Production, Price, Value, Gross Margin and Market Share (2019-2024)
- 7.9.5 MC Heavy Duty Vehicle Co., Ltd. Recent Developments/Updates
- 7.9.6 MC Heavy Duty Vehicle Co., Ltd. Competitive Strengths & Weaknesses
- 7.10 Dayun Automobile Co ., Ltd.
- 7.10.1 Dayun Automobile Co ., Ltd. Details
- 7.10.2 Dayun Automobile Co ., Ltd. Major Business
- 7.10.3 Dayun Automobile Co ., Ltd. Hydrogen-powered Semi-Trucks Product and Services
- 7.10.4 Dayun Automobile Co ., Ltd. Hydrogen-powered Semi-Trucks Production, Price, Value, Gross Margin and Market Share (2019-2024)
- 7.10.5 Dayun Automobile Co ., Ltd. Recent Developments/Updates
- 7.10.6 Dayun Automobile Co ., Ltd. Competitive Strengths & Weaknesses
- 7.11 Foshan Feichi Motor Technology Co., Ltd.
- 7.11.1 Foshan Feichi Motor Technology Co., Ltd. Details
- 7.11.2 Foshan Feichi Motor Technology Co., Ltd. Major Business
- 7.11.3 Foshan Feichi Motor Technology Co., Ltd. Hydrogen-powered Semi-Trucks Product and Services
- 7.11.4 Foshan Feichi Motor Technology Co., Ltd. Hydrogen-powered Semi-Trucks Production, Price, Value, Gross Margin and Market Share (2019-2024)
- 7.11.5 Foshan Feichi Motor Technology Co., Ltd. Recent Developments/Updates
- 7.11.6 Foshan Feichi Motor Technology Co., Ltd. Competitive Strengths & Weaknesses
- 7.12 PACCAR
- 7.12.1 PACCAR Details
- 7.12.2 PACCAR Major Business
- 7.12.3 PACCAR Hydrogen-powered Semi-Trucks Product and Services

- 7.12.4 PACCAR Hydrogen-powered Semi-Trucks Production, Price, Value, Gross Margin and Market Share (2019-2024)
- 7.12.5 PACCAR Recent Developments/Updates
- 7.12.6 PACCAR Competitive Strengths & Weaknesses
- 7.13 Qingling Motors
 - 7.13.1 Qingling Motors Details
 - 7.13.2 Qingling Motors Major Business
 - 7.13.3 Qingling Motors Hydrogen-powered Semi-Trucks Product and Services
 - 7.13.4 Qingling Motors Hydrogen-powered Semi-Trucks Production, Price, Value, Gross Margin and Market Share (2019-2024)
 - 7.13.5 Qingling Motors Recent Developments/Updates
 - 7.13.6 Qingling Motors Competitive Strengths & Weaknesses
- 7.14 Beiqi Foton Motor Co., Ltd.
 - 7.14.1 Beiqi Foton Motor Co., Ltd. Details
 - 7.14.2 Beiqi Foton Motor Co., Ltd. Major Business
 - 7.14.3 Beiqi Foton Motor Co., Ltd. Hydrogen-powered Semi-Trucks Product and Services
 - 7.14.4 Beiqi Foton Motor Co., Ltd. Hydrogen-powered Semi-Trucks Production, Price, Value, Gross Margin and Market Share (2019-2024)
 - 7.14.5 Beiqi Foton Motor Co., Ltd. Recent Developments/Updates
 - 7.14.6 Beiqi Foton Motor Co., Ltd. Competitive Strengths & Weaknesses
- 7.15 Sinotruk
 - 7.15.1 Sinotruk Details
 - 7.15.2 Sinotruk Major Business
 - 7.15.3 Sinotruk Hydrogen-powered Semi-Trucks Product and Services
 - 7.15.4 Sinotruk Hydrogen-powered Semi-Trucks Production, Price, Value, Gross Margin and Market Share (2019-2024)
 - 7.15.5 Sinotruk Recent Developments/Updates
 - 7.15.6 Sinotruk Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 Hydrogen-powered Semi-Trucks Industry Chain
- 8.2 Hydrogen-powered Semi-Trucks Upstream Analysis
 - 8.2.1 Hydrogen-powered Semi-Trucks Core Raw Materials
 - 8.2.2 Main Manufacturers of Hydrogen-powered Semi-Trucks Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Hydrogen-powered Semi-Trucks Production Mode

8.6 Hydrogen-powered Semi-Trucks Procurement Model

8.7 Hydrogen-powered Semi-Trucks Industry Sales Model and Sales Channels

8.7.1 Hydrogen-powered Semi-Trucks Sales Model

8.7.2 Hydrogen-powered Semi-Trucks Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Hydrogen-powered Semi-Trucks Production Value by Region (2019, 2023 and 2030) & (USD Million)

Table 2. World Hydrogen-powered Semi-Trucks Production Value by Region (2019-2024) & (USD Million)

Table 3. World Hydrogen-powered Semi-Trucks Production Value by Region (2025-2030) & (USD Million)

Table 4. World Hydrogen-powered Semi-Trucks Production Value Market Share by Region (2019-2024)

Table 5. World Hydrogen-powered Semi-Trucks Production Value Market Share by Region (2025-2030)

Table 6. World Hydrogen-powered Semi-Trucks Production by Region (2019-2024) & (K Units)

Table 7. World Hydrogen-powered Semi-Trucks Production by Region (2025-2030) & (K Units)

Table 8. World Hydrogen-powered Semi-Trucks Production Market Share by Region (2019-2024)

Table 9. World Hydrogen-powered Semi-Trucks Production Market Share by Region (2025-2030)

Table 10. World Hydrogen-powered Semi-Trucks Average Price by Region (2019-2024) & (US\$/Unit)

Table 11. World Hydrogen-powered Semi-Trucks Average Price by Region (2025-2030) & (US\$/Unit)

Table 12. Hydrogen-powered Semi-Trucks Major Market Trends

Table 13. World Hydrogen-powered Semi-Trucks Consumption Growth Rate Forecast by Region (2019 & 2023 & 2030) & (K Units)

Table 14. World Hydrogen-powered Semi-Trucks Consumption by Region (2019-2024) & (K Units)

Table 15. World Hydrogen-powered Semi-Trucks Consumption Forecast by Region (2025-2030) & (K Units)

Table 16. World Hydrogen-powered Semi-Trucks Production Value by Manufacturer (2019-2024) & (USD Million)

Table 17. Production Value Market Share of Key Hydrogen-powered Semi-Trucks Producers in 2023

Table 18. World Hydrogen-powered Semi-Trucks Production by Manufacturer (2019-2024) & (K Units)

Table 19. Production Market Share of Key Hydrogen-powered Semi-Trucks Producers in 2023

Table 20. World Hydrogen-powered Semi-Trucks Average Price by Manufacturer (2019-2024) & (US\$/Unit)

Table 21. Global Hydrogen-powered Semi-Trucks Company Evaluation Quadrant

Table 22. World Hydrogen-powered Semi-Trucks Industry Rank of Major Manufacturers, Based on Production Value in 2023

Table 23. Head Office and Hydrogen-powered Semi-Trucks Production Site of Key Manufacturer

Table 24. Hydrogen-powered Semi-Trucks Market: Company Product Type Footprint

Table 25. Hydrogen-powered Semi-Trucks Market: Company Product Application Footprint

Table 26. Hydrogen-powered Semi-Trucks Competitive Factors

Table 27. Hydrogen-powered Semi-Trucks New Entrant and Capacity Expansion Plans

Table 28. Hydrogen-powered Semi-Trucks Mergers & Acquisitions Activity

Table 29. United States VS China Hydrogen-powered Semi-Trucks Production Value Comparison, (2019 & 2023 & 2030) & (USD Million)

Table 30. United States VS China Hydrogen-powered Semi-Trucks Production Comparison, (2019 & 2023 & 2030) & (K Units)

Table 31. United States VS China Hydrogen-powered Semi-Trucks Consumption Comparison, (2019 & 2023 & 2030) & (K Units)

Table 32. United States Based Hydrogen-powered Semi-Trucks Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Hydrogen-powered Semi-Trucks Production Value, (2019-2024) & (USD Million)

Table 34. United States Based Manufacturers Hydrogen-powered Semi-Trucks Production Value Market Share (2019-2024)

Table 35. United States Based Manufacturers Hydrogen-powered Semi-Trucks Production (2019-2024) & (K Units)

Table 36. United States Based Manufacturers Hydrogen-powered Semi-Trucks Production Market Share (2019-2024)

Table 37. China Based Hydrogen-powered Semi-Trucks Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Hydrogen-powered Semi-Trucks Production Value, (2019-2024) & (USD Million)

Table 39. China Based Manufacturers Hydrogen-powered Semi-Trucks Production Value Market Share (2019-2024)

Table 40. China Based Manufacturers Hydrogen-powered Semi-Trucks Production (2019-2024) & (K Units)

Table 41. China Based Manufacturers Hydrogen-powered Semi-Trucks Production Market Share (2019-2024)

Table 42. Rest of World Based Hydrogen-powered Semi-Trucks Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Hydrogen-powered Semi-Trucks Production Value, (2019-2024) & (USD Million)

Table 44. Rest of World Based Manufacturers Hydrogen-powered Semi-Trucks Production Value Market Share (2019-2024)

Table 45. Rest of World Based Manufacturers Hydrogen-powered Semi-Trucks Production (2019-2024) & (K Units)

Table 46. Rest of World Based Manufacturers Hydrogen-powered Semi-Trucks Production Market Share (2019-2024)

Table 47. World Hydrogen-powered Semi-Trucks Production Value by Type, (USD Million), 2019 & 2023 & 2030

Table 48. World Hydrogen-powered Semi-Trucks Production by Type (2019-2024) & (K Units)

Table 49. World Hydrogen-powered Semi-Trucks Production by Type (2025-2030) & (K Units)

Table 50. World Hydrogen-powered Semi-Trucks Production Value by Type (2019-2024) & (USD Million)

Table 51. World Hydrogen-powered Semi-Trucks Production Value by Type (2025-2030) & (USD Million)

Table 52. World Hydrogen-powered Semi-Trucks Average Price by Type (2019-2024) & (US\$/Unit)

Table 53. World Hydrogen-powered Semi-Trucks Average Price by Type (2025-2030) & (US\$/Unit)

Table 54. World Hydrogen-powered Semi-Trucks Production Value by Application, (USD Million), 2019 & 2023 & 2030

Table 55. World Hydrogen-powered Semi-Trucks Production by Application (2019-2024) & (K Units)

Table 56. World Hydrogen-powered Semi-Trucks Production by Application (2025-2030) & (K Units)

Table 57. World Hydrogen-powered Semi-Trucks Production Value by Application (2019-2024) & (USD Million)

Table 58. World Hydrogen-powered Semi-Trucks Production Value by Application (2025-2030) & (USD Million)

Table 59. World Hydrogen-powered Semi-Trucks Average Price by Application (2019-2024) & (US\$/Unit)

Table 60. World Hydrogen-powered Semi-Trucks Average Price by Application

(2025-2030) & (US\$/Unit)

Table 61. Toyota Basic Information, Manufacturing Base and Competitors

Table 62. Toyota Major Business

Table 63. Toyota Hydrogen-powered Semi-Trucks Product and Services

Table 64. Toyota Hydrogen-powered Semi-Trucks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 65. Toyota Recent Developments/Updates

Table 66. Toyota Competitive Strengths & Weaknesses

Table 67. Hyundai Hydrogen Mobility Basic Information, Manufacturing Base and Competitors

Table 68. Hyundai Hydrogen Mobility Major Business

Table 69. Hyundai Hydrogen Mobility Hydrogen-powered Semi-Trucks Product and Services

Table 70. Hyundai Hydrogen Mobility Hydrogen-powered Semi-Trucks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 71. Hyundai Hydrogen Mobility Recent Developments/Updates

Table 72. Hyundai Hydrogen Mobility Competitive Strengths & Weaknesses

Table 73. Nikola Basic Information, Manufacturing Base and Competitors

Table 74. Nikola Major Business

Table 75. Nikola Hydrogen-powered Semi-Trucks Product and Services

Table 76. Nikola Hydrogen-powered Semi-Trucks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 77. Nikola Recent Developments/Updates

Table 78. Nikola Competitive Strengths & Weaknesses

Table 79. Hyzon Motors Inc Basic Information, Manufacturing Base and Competitors

Table 80. Hyzon Motors Inc Major Business

Table 81. Hyzon Motors Inc Hydrogen-powered Semi-Trucks Product and Services

Table 82. Hyzon Motors Inc Hydrogen-powered Semi-Trucks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 83. Hyzon Motors Inc Recent Developments/Updates

Table 84. Hyzon Motors Inc Competitive Strengths & Weaknesses

Table 85. Daimler Truck Basic Information, Manufacturing Base and Competitors

Table 86. Daimler Truck Major Business

Table 87. Daimler Truck Hydrogen-powered Semi-Trucks Product and Services

Table 88. Daimler Truck Hydrogen-powered Semi-Trucks Production (K Units), Price

(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 89. Daimler Truck Recent Developments/Updates

Table 90. Daimler Truck Competitive Strengths & Weaknesses

Table 91. Volvo Group Basic Information, Manufacturing Base and Competitors

Table 92. Volvo Group Major Business

Table 93. Volvo Group Hydrogen-powered Semi-Trucks Product and Services

Table 94. Volvo Group Hydrogen-powered Semi-Trucks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 95. Volvo Group Recent Developments/Updates

Table 96. Volvo Group Competitive Strengths & Weaknesses

Table 97. SAIC Motor Corporation Limited Basic Information, Manufacturing Base and Competitors

Table 98. SAIC Motor Corporation Limited Major Business

Table 99. SAIC Motor Corporation Limited Hydrogen-powered Semi-Trucks Product and Services

Table 100. SAIC Motor Corporation Limited Hydrogen-powered Semi-Trucks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 101. SAIC Motor Corporation Limited Recent Developments/Updates

Table 102. SAIC Motor Corporation Limited Competitive Strengths & Weaknesses

Table 103. Weichai Power Co.,Ltd. Basic Information, Manufacturing Base and Competitors

Table 104. Weichai Power Co.,Ltd. Major Business

Table 105. Weichai Power Co.,Ltd. Hydrogen-powered Semi-Trucks Product and Services

Table 106. Weichai Power Co.,Ltd. Hydrogen-powered Semi-Trucks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 107. Weichai Power Co.,Ltd. Recent Developments/Updates

Table 108. Weichai Power Co.,Ltd. Competitive Strengths & Weaknesses

Table 109. MC Heavy Duty Vehicle Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 110. MC Heavy Duty Vehicle Co., Ltd. Major Business

Table 111. MC Heavy Duty Vehicle Co., Ltd. Hydrogen-powered Semi-Trucks Product and Services

Table 112. MC Heavy Duty Vehicle Co., Ltd. Hydrogen-powered Semi-Trucks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin

and Market Share (2019-2024)

Table 113. MC Heavy Duty Vehicle Co., Ltd. Recent Developments/Updates

Table 114. MC Heavy Duty Vehicle Co., Ltd. Competitive Strengths & Weaknesses

Table 115. Dayun Automobile Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 116. Dayun Automobile Co., Ltd. Major Business

Table 117. Dayun Automobile Co., Ltd. Hydrogen-powered Semi-Trucks Product and Services

Table 118. Dayun Automobile Co., Ltd. Hydrogen-powered Semi-Trucks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 119. Dayun Automobile Co., Ltd. Recent Developments/Updates

Table 120. Dayun Automobile Co., Ltd. Competitive Strengths & Weaknesses

Table 121. Foshan Feichi Motor Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 122. Foshan Feichi Motor Technology Co., Ltd. Major Business

Table 123. Foshan Feichi Motor Technology Co., Ltd. Hydrogen-powered Semi-Trucks Product and Services

Table 124. Foshan Feichi Motor Technology Co., Ltd. Hydrogen-powered Semi-Trucks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 125. Foshan Feichi Motor Technology Co., Ltd. Recent Developments/Updates

Table 126. Foshan Feichi Motor Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 127. PACCAR Basic Information, Manufacturing Base and Competitors

Table 128. PACCAR Major Business

Table 129. PACCAR Hydrogen-powered Semi-Trucks Product and Services

Table 130. PACCAR Hydrogen-powered Semi-Trucks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 131. PACCAR Recent Developments/Updates

Table 132. PACCAR Competitive Strengths & Weaknesses

Table 133. Qingling Motors Basic Information, Manufacturing Base and Competitors

Table 134. Qingling Motors Major Business

Table 135. Qingling Motors Hydrogen-powered Semi-Trucks Product and Services

Table 136. Qingling Motors Hydrogen-powered Semi-Trucks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 137. Qingling Motors Recent Developments/Updates

Table 138. Qingling Motors Competitive Strengths & Weaknesses

Table 139. Beiqi Foton Motor Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 140. Beiqi Foton Motor Co., Ltd. Major Business

Table 141. Beiqi Foton Motor Co., Ltd. Hydrogen-powered Semi-Trucks Product and Services

Table 142. Beiqi Foton Motor Co., Ltd. Hydrogen-powered Semi-Trucks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 143. Beiqi Foton Motor Co., Ltd. Recent Developments/Updates

Table 144. Sinotruk Basic Information, Manufacturing Base and Competitors

Table 145. Sinotruk Major Business

Table 146. Sinotruk Hydrogen-powered Semi-Trucks Product and Services

Table 147. Sinotruk Hydrogen-powered Semi-Trucks Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2019-2024)

Table 148. Global Key Players of Hydrogen-powered Semi-Trucks Upstream (Raw Materials)

Table 149. Hydrogen-powered Semi-Trucks Typical Customers

Table 150. Hydrogen-powered Semi-Trucks Typical Distributors

LIST OF FIGURE

Figure 1. Hydrogen-powered Semi-Trucks Picture

Figure 2. World Hydrogen-powered Semi-Trucks Production Value: 2019 & 2023 & 2030, (USD Million)

Figure 3. World Hydrogen-powered Semi-Trucks Production Value and Forecast (2019-2030) & (USD Million)

Figure 4. World Hydrogen-powered Semi-Trucks Production (2019-2030) & (K Units)

Figure 5. World Hydrogen-powered Semi-Trucks Average Price (2019-2030) & (US\$/Unit)

Figure 6. World Hydrogen-powered Semi-Trucks Production Value Market Share by Region (2019-2030)

Figure 7. World Hydrogen-powered Semi-Trucks Production Market Share by Region (2019-2030)

Figure 8. North America Hydrogen-powered Semi-Trucks Production (2019-2030) & (K Units)

Figure 9. Europe Hydrogen-powered Semi-Trucks Production (2019-2030) & (K Units)

Figure 10. China Hydrogen-powered Semi-Trucks Production (2019-2030) & (K Units)

- Figure 11. Japan Hydrogen-powered Semi-Trucks Production (2019-2030) & (K Units)
- Figure 12. Hydrogen-powered Semi-Trucks Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Hydrogen-powered Semi-Trucks Consumption (2019-2030) & (K Units)
- Figure 15. World Hydrogen-powered Semi-Trucks Consumption Market Share by Region (2019-2030)
- Figure 16. United States Hydrogen-powered Semi-Trucks Consumption (2019-2030) & (K Units)
- Figure 17. China Hydrogen-powered Semi-Trucks Consumption (2019-2030) & (K Units)
- Figure 18. Europe Hydrogen-powered Semi-Trucks Consumption (2019-2030) & (K Units)
- Figure 19. Japan Hydrogen-powered Semi-Trucks Consumption (2019-2030) & (K Units)
- Figure 20. South Korea Hydrogen-powered Semi-Trucks Consumption (2019-2030) & (K Units)
- Figure 21. ASEAN Hydrogen-powered Semi-Trucks Consumption (2019-2030) & (K Units)
- Figure 22. India Hydrogen-powered Semi-Trucks Consumption (2019-2030) & (K Units)
- Figure 23. Producer Shipments of Hydrogen-powered Semi-Trucks by Manufacturer Revenue (\$MM) and Market Share (%): 2023
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Hydrogen-powered Semi-Trucks Markets in 2023
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Hydrogen-powered Semi-Trucks Markets in 2023
- Figure 26. United States VS China: Hydrogen-powered Semi-Trucks Production Value Market Share Comparison (2019 & 2023 & 2030)
- Figure 27. United States VS China: Hydrogen-powered Semi-Trucks Production Market Share Comparison (2019 & 2023 & 2030)
- Figure 28. United States VS China: Hydrogen-powered Semi-Trucks Consumption Market Share Comparison (2019 & 2023 & 2030)
- Figure 29. United States Based Manufacturers Hydrogen-powered Semi-Trucks Production Market Share 2023
- Figure 30. China Based Manufacturers Hydrogen-powered Semi-Trucks Production Market Share 2023
- Figure 31. Rest of World Based Manufacturers Hydrogen-powered Semi-Trucks Production Market Share 2023
- Figure 32. World Hydrogen-powered Semi-Trucks Production Value by Type, (USD)

Million), 2019 & 2023 & 2030

Figure 33. World Hydrogen-powered Semi-Trucks Production Value Market Share by Type in 2023

Figure 34. Hydrogen-powered Class 8 Truck

Figure 35. Hydrogen-powered Refuse Truck

Figure 36. Others

Figure 37. World Hydrogen-powered Semi-Trucks Production Market Share by Type (2019-2030)

Figure 38. World Hydrogen-powered Semi-Trucks Production Value Market Share by Type (2019-2030)

Figure 39. World Hydrogen-powered Semi-Trucks Average Price by Type (2019-2030) & (US\$/Unit)

Figure 40. World Hydrogen-powered Semi-Trucks Production Value by Application, (USD Million), 2019 & 2023 & 2030

Figure 41. World Hydrogen-powered Semi-Trucks Production Value Market Share by Application in 2023

Figure 42. Logistics and Transportation

Figure 43. E-commerce and Retail

Figure 44. Construction and Manufacturing

Figure 45. Waste Management

Figure 46. Public Transportation

Figure 47. Other

Figure 48. World Hydrogen-powered Semi-Trucks Production Market Share by Application (2019-2030)

Figure 49. World Hydrogen-powered Semi-Trucks Production Value Market Share by Application (2019-2030)

Figure 50. World Hydrogen-powered Semi-Trucks Average Price by Application (2019-2030) & (US\$/Unit)

Figure 51. Hydrogen-powered Semi-Trucks Industry Chain

Figure 52. Hydrogen-powered Semi-Trucks Procurement Model

Figure 53. Hydrogen-powered Semi-Trucks Sales Model

Figure 54. Hydrogen-powered Semi-Trucks Sales Channels, Direct Sales, and Distribution

Figure 55. Methodology

Figure 56. Research Process and Data Source

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