

Global Hydrogen Liquefaction System Market Growth 2026-2032

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Abstracts

The global Hydrogen Liquefaction System market size is predicted to grow from US\$ 580 million in 2025 to US\$ 881 million in 2032; it is expected to grow at a CAGR of 5.9% from 2026 to 2032.

A Hydrogen Liquefaction System is an integrated equipment system designed to convert gaseous hydrogen into liquid hydrogen through compression, precooling, cryogenic heat exchange, expansion refrigeration, and low-temperature storage processes. Because hydrogen liquefaction requires extremely low temperatures, the system typically consists of hydrogen compressors, precooling units, cryogenic heat exchangers, expanders, throttling valves, cryogenic storage tanks, control systems, and safety protection devices. Liquid hydrogen offers higher volumetric energy density, making it suitable for long-distance transportation, large-scale storage, and refueling applications. Therefore, hydrogen liquefaction systems are widely used in hydrogen energy storage and transportation, aerospace launch systems, fuel-cell mobility, industrial gas supply, and energy reserve applications. In 2025, global Hydrogen Liquefaction System production reached approximately 2611 Units, with an average global market price of around 227 k USD/Unit. The production capacity for Hydrogen Liquefaction System in 2025 was approximately 2800 Units. The typical gross profit margin for Hydrogen Liquefaction System between 20% and 40%.

The Hydrogen Liquefaction System market is driven by the development of the global hydrogen economy, clean energy transition, construction of liquid hydrogen storage and transportation infrastructure, and growing demand from aerospace and mobility sectors. As green hydrogen projects, fuel-cell heavy-duty trucks, hydrogen-powered vessels, aerospace applications, and large-scale energy storage continue to expand, liquid hydrogen is gaining attention due to its higher storage density and suitability for

centralized supply. Compared with compressed hydrogen and pipeline transportation, liquid hydrogen offers advantages in long-distance transport and high-density storage; however, high capital investment, significant energy consumption, and strict cryogenic safety requirements remain key challenges. In the future, with improvements in cryogenic refrigeration technology, liquid hydrogen storage tanks, refueling networks, and hydrogen supply chains, the market for hydrogen liquefaction systems is expected to expand steadily across energy, transportation, industrial, and aerospace applications.

LP Information, Inc. (LPI) ' newest research report, the "Hydrogen Liquefaction System Industry Forecast" looks at past sales and reviews total world Hydrogen Liquefaction System sales in 2025, providing a comprehensive analysis by region and market sector of projected Hydrogen Liquefaction System sales for 2026 through 2032. With Hydrogen Liquefaction System sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Hydrogen Liquefaction System industry.

This Insight Report provides a comprehensive analysis of the global Hydrogen Liquefaction System landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Hydrogen Liquefaction System portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Hydrogen Liquefaction System market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Hydrogen Liquefaction System and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Hydrogen Liquefaction System.

This report presents a comprehensive overview, market shares, and growth opportunities of Hydrogen Liquefaction System market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Cryogenic Hydrogen

Pressure Swing Adsorption (PSA)

Membrane Separation

Segmentation by Processing Capacity:

Large Industrial Grade

Medium Regional Grade

Small Laboratory Grade

Segmentation by Equipment Form:

Stationary Type

Mobile Type

Segmentation by Application:

Hydrogen Storage and Transportation

Mobility and Refueling

Aerospace

Industrial Gas and Chemical Industry

Others

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 analysing the company's coverage, product portfolio, its market penetration.

Linde Engineering

Air Liquide

Chart Industries

Air Products

GenH2 Discover Hydrogen

Plug Power

Kawasaki Heavy Industries

Iwatani

Hylium Industries

Sumitomo Seika Chemicals

Zhongke Fuhai Technology

Jiangsu Guofu Hydrogen Energy Equipment

Key Questions Addressed in this Report

What is the 10-year outlook for the global Hydrogen Liquefaction System market?

What factors are driving Hydrogen Liquefaction System market growth, globally and by region?

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

How do Hydrogen Liquefaction System market opportunities vary by end market size?

How does Hydrogen Liquefaction System break out by Type, by 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 Liquefaction System Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Hydrogen Liquefaction System by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Hydrogen Liquefaction System by Country/Region, 2021, 2025 & 2032
- 2.2 Hydrogen Liquefaction System Segment by Type
 - 2.2.1 Cryogenic Hydrogen
 - 2.2.2 Pressure Swing Adsorption (PSA)
 - 2.2.3 Membrane Separation
 - 2.2.4 Hydrogen Liquefaction System Sales by Type
 - 2.2.4.1 Global Hydrogen Liquefaction System Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Hydrogen Liquefaction System Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Hydrogen Liquefaction System Sale Price by Type (2021-2026)
- 2.3 Hydrogen Liquefaction System Segment by Processing Capacity
 - 2.3.1 Large Industrial Grade
 - 2.3.2 Medium Regional Grade
 - 2.3.3 Small Laboratory Grade
 - 2.3.4 Hydrogen Liquefaction System Sales by Processing Capacity
 - 2.3.4.1 Global Hydrogen Liquefaction System Sales Market Share by Processing Capacity (2021-2026)
 - 2.3.4.2 Global Hydrogen Liquefaction System Revenue and Market Share by

Processing Capacity (2021-2026)

2.3.4.3 Global Hydrogen Liquefaction System Sale Price by Processing Capacity (2021-2026)

2.4 Hydrogen Liquefaction System Segment by Equipment Form

2.4.1 Stationary Type

2.4.2 Mobile Type

2.4.3 Hydrogen Liquefaction System Sales by Equipment Form

2.4.3.1 Global Hydrogen Liquefaction System Sales Market Share by Equipment Form (2021-2026)

2.4.3.2 Global Hydrogen Liquefaction System Revenue and Market Share by Equipment Form (2021-2026)

2.4.3.3 Global Hydrogen Liquefaction System Sale Price by Equipment Form (2021-2026)

2.5 Hydrogen Liquefaction System Segment by Application

2.5.1 Hydrogen Storage and Transportation

2.5.2 Mobility and Refueling

2.5.3 Aerospace

2.5.4 Industrial Gas and Chemical Industry

2.5.5 Others

2.5.6 Hydrogen Liquefaction System Sales by Application

2.5.6.1 Global Hydrogen Liquefaction System Sale Market Share by Application (2021-2026)

2.5.6.2 Global Hydrogen Liquefaction System Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Hydrogen Liquefaction System Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Hydrogen Liquefaction System Breakdown Data by Company

3.1.1 Global Hydrogen Liquefaction System Annual Sales by Company (2021-2026)

3.1.2 Global Hydrogen Liquefaction System Sales Market Share by Company (2021-2026)

3.2 Global Hydrogen Liquefaction System Annual Revenue by Company (2021-2026)

3.2.1 Global Hydrogen Liquefaction System Revenue by Company (2021-2026)

3.2.2 Global Hydrogen Liquefaction System Revenue Market Share by Company (2021-2026)

3.3 Global Hydrogen Liquefaction System Sale Price by Company

3.4 Key Manufacturers Hydrogen Liquefaction System Producing Area Distribution, Sales Area, Product Type

- 3.4.1 Key Manufacturers Hydrogen Liquefaction System Product Location Distribution
- 3.4.2 Players Hydrogen Liquefaction System Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR HYDROGEN LIQUEFACTION SYSTEM BY GEOGRAPHIC REGION

- 4.1 World Historic Hydrogen Liquefaction System Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Hydrogen Liquefaction System Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Hydrogen Liquefaction System Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Hydrogen Liquefaction System Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Hydrogen Liquefaction System Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Hydrogen Liquefaction System Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Hydrogen Liquefaction System Sales Growth
- 4.4 APAC Hydrogen Liquefaction System Sales Growth
- 4.5 Europe Hydrogen Liquefaction System Sales Growth
- 4.6 Middle East & Africa Hydrogen Liquefaction System Sales Growth

5 AMERICAS

- 5.1 Americas Hydrogen Liquefaction System Sales by Country
 - 5.1.1 Americas Hydrogen Liquefaction System Sales by Country (2021-2026)
 - 5.1.2 Americas Hydrogen Liquefaction System Revenue by Country (2021-2026)
- 5.2 Americas Hydrogen Liquefaction System Sales by Type (2021-2026)
- 5.3 Americas Hydrogen Liquefaction System Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

6.1 APAC Hydrogen Liquefaction System Sales by Region

6.1.1 APAC Hydrogen Liquefaction System Sales by Region (2021-2026)

6.1.2 APAC Hydrogen Liquefaction System Revenue by Region (2021-2026)

6.2 APAC Hydrogen Liquefaction System Sales by Type (2021-2026)

6.3 APAC Hydrogen Liquefaction System Sales by Application (2021-2026)

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 Liquefaction System by Country

7.1.1 Europe Hydrogen Liquefaction System Sales by Country (2021-2026)

7.1.2 Europe Hydrogen Liquefaction System Revenue by Country (2021-2026)

7.2 Europe Hydrogen Liquefaction System Sales by Type (2021-2026)

7.3 Europe Hydrogen Liquefaction System Sales by Application (2021-2026)

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 Liquefaction System by Country

8.1.1 Middle East & Africa Hydrogen Liquefaction System Sales by Country (2021-2026)

8.1.2 Middle East & Africa Hydrogen Liquefaction System Revenue by Country (2021-2026)

8.2 Middle East & Africa Hydrogen Liquefaction System Sales by Type (2021-2026)

8.3 Middle East & Africa Hydrogen Liquefaction System Sales by Application (2021-2026)

- 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 Liquefaction System
- 10.3 Manufacturing Process Analysis of Hydrogen Liquefaction System
- 10.4 Industry Chain Structure of Hydrogen Liquefaction System

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Hydrogen Liquefaction System Distributors
- 11.3 Hydrogen Liquefaction System Customer

12 WORLD FORECAST REVIEW FOR HYDROGEN LIQUEFACTION SYSTEM BY GEOGRAPHIC REGION

- 12.1 Global Hydrogen Liquefaction System Market Size Forecast by Region
 - 12.1.1 Global Hydrogen Liquefaction System Forecast by Region (2027-2032)
 - 12.1.2 Global Hydrogen Liquefaction System Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Hydrogen Liquefaction System Forecast by Type (2027-2032)

12.7 Global Hydrogen Liquefaction System Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Linde Engineering

13.1.1 Linde Engineering Company Information

13.1.2 Linde Engineering Hydrogen Liquefaction System Product Portfolios and Specifications

13.1.3 Linde Engineering Hydrogen Liquefaction System Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Linde Engineering Main Business Overview

13.1.5 Linde Engineering Latest Developments

13.2 Air Liquide

13.2.1 Air Liquide Company Information

13.2.2 Air Liquide Hydrogen Liquefaction System Product Portfolios and Specifications

13.2.3 Air Liquide Hydrogen Liquefaction System Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Air Liquide Main Business Overview

13.2.5 Air Liquide Latest Developments

13.3 Chart Industries

13.3.1 Chart Industries Company Information

13.3.2 Chart Industries Hydrogen Liquefaction System Product Portfolios and Specifications

13.3.3 Chart Industries Hydrogen Liquefaction System Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Chart Industries Main Business Overview

13.3.5 Chart Industries Latest Developments

13.4 Air Products

13.4.1 Air Products Company Information

13.4.2 Air Products Hydrogen Liquefaction System Product Portfolios and Specifications

13.4.3 Air Products Hydrogen Liquefaction System Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Air Products Main Business Overview

13.4.5 Air Products Latest Developments

13.5 GenH2 Discover Hydrogen

13.5.1 GenH2 Discover Hydrogen Company Information

13.5.2 GenH2 Discover Hydrogen Hydrogen Liquefaction System Product Portfolios and Specifications

13.5.3 GenH2 Discover Hydrogen Hydrogen Liquefaction System Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 GenH2 Discover Hydrogen Main Business Overview

13.5.5 GenH2 Discover Hydrogen Latest Developments

13.6 Plug Power

13.6.1 Plug Power Company Information

13.6.2 Plug Power Hydrogen Liquefaction System Product Portfolios and Specifications

13.6.3 Plug Power Hydrogen Liquefaction System Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Plug Power Main Business Overview

13.6.5 Plug Power Latest Developments

13.7 Kawasaki Heavy Industries

13.7.1 Kawasaki Heavy Industries Company Information

13.7.2 Kawasaki Heavy Industries Hydrogen Liquefaction System Product Portfolios and Specifications

13.7.3 Kawasaki Heavy Industries Hydrogen Liquefaction System Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Kawasaki Heavy Industries Main Business Overview

13.7.5 Kawasaki Heavy Industries Latest Developments

13.8 Iwatani

13.8.1 Iwatani Company Information

13.8.2 Iwatani Hydrogen Liquefaction System Product Portfolios and Specifications

13.8.3 Iwatani Hydrogen Liquefaction System Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Iwatani Main Business Overview

13.8.5 Iwatani Latest Developments

13.9 Hylium Industries

13.9.1 Hylium Industries Company Information

13.9.2 Hylium Industries Hydrogen Liquefaction System Product Portfolios and Specifications

13.9.3 Hylium Industries Hydrogen Liquefaction System Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Hylium Industries Main Business Overview

13.9.5 Hylium Industries Latest Developments

13.10 Sumitomo Seika Chemicals

13.10.1 Sumitomo Seika Chemicals Company Information

13.10.2 Sumitomo Seika Chemicals Hydrogen Liquefaction System Product Portfolios and Specifications

13.10.3 Sumitomo Seika Chemicals Hydrogen Liquefaction System Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 Sumitomo Seika Chemicals Main Business Overview

13.10.5 Sumitomo Seika Chemicals Latest Developments

13.11 Zhongke Fuhai Technology

13.11.1 Zhongke Fuhai Technology Company Information

13.11.2 Zhongke Fuhai Technology Hydrogen Liquefaction System Product Portfolios and Specifications

13.11.3 Zhongke Fuhai Technology Hydrogen Liquefaction System Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Zhongke Fuhai Technology Main Business Overview

13.11.5 Zhongke Fuhai Technology Latest Developments

13.12 Jiangsu Guofu Hydrogen Energy Equipment

13.12.1 Jiangsu Guofu Hydrogen Energy Equipment Company Information

13.12.2 Jiangsu Guofu Hydrogen Energy Equipment Hydrogen Liquefaction System Product Portfolios and Specifications

13.12.3 Jiangsu Guofu Hydrogen Energy Equipment Hydrogen Liquefaction System Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Jiangsu Guofu Hydrogen Energy Equipment Main Business Overview

13.12.5 Jiangsu Guofu Hydrogen Energy Equipment Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Hydrogen Liquefaction System Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Hydrogen Liquefaction System Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Cryogenic Hydrogen

Table 4. Major Players of Pressure Swing Adsorption (PSA)

Table 5. Major Players of Membrane Separation

Table 6. Global Hydrogen Liquefaction System Sales by Type (2021-2026) & (Units)

Table 7. Global Hydrogen Liquefaction System Sales Market Share by Type (2021-2026)

Table 8. Global Hydrogen Liquefaction System Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Hydrogen Liquefaction System Revenue Market Share by Type (2021-2026)

Table 10. Global Hydrogen Liquefaction System Sale Price by Type (2021-2026) & (K US\$/Unit)

Table 11. Major Players of Large Industrial Grade

Table 12. Major Players of Medium Regional Grade

Table 13. Major Players of Small Laboratory Grade

Table 14. Global Hydrogen Liquefaction System Sales by Processing Capacity (2021-2026) & (Units)

Table 15. Global Hydrogen Liquefaction System Sales Market Share by Processing Capacity (2021-2026)

Table 16. Global Hydrogen Liquefaction System Revenue by Processing Capacity (2021-2026) & (\$ million)

Table 17. Global Hydrogen Liquefaction System Revenue Market Share by Processing Capacity (2021-2026)

Table 18. Global Hydrogen Liquefaction System Sale Price by Processing Capacity (2021-2026) & (K US\$/Unit)

Table 19. Major Players of Stationary Type

Table 20. Major Players of Mobile Type

Table 21. Global Hydrogen Liquefaction System Sales by Equipment Form (2021-2026) & (Units)

Table 22. Global Hydrogen Liquefaction System Sales Market Share by Equipment Form (2021-2026)

Table 23. Global Hydrogen Liquefaction System Revenue by Equipment Form (2021-2026) & (\$ million)

Table 24. Global Hydrogen Liquefaction System Revenue Market Share by Equipment Form (2021-2026)

Table 25. Global Hydrogen Liquefaction System Sale Price by Equipment Form (2021-2026) & (K US\$/Unit)

Table 26. Global Hydrogen Liquefaction System Sale by Application (2021-2026) & (Units)

Table 27. Global Hydrogen Liquefaction System Sale Market Share by Application (2021-2026)

Table 28. Global Hydrogen Liquefaction System Revenue by Application (2021-2026) & (\$ million)

Table 29. Global Hydrogen Liquefaction System Revenue Market Share by Application (2021-2026)

Table 30. Global Hydrogen Liquefaction System Sale Price by Application (2021-2026) & (K US\$/Unit)

Table 31. Global Hydrogen Liquefaction System Sales by Company (2021-2026) & (Units)

Table 32. Global Hydrogen Liquefaction System Sales Market Share by Company (2021-2026)

Table 33. Global Hydrogen Liquefaction System Revenue by Company (2021-2026) & (\$ millions)

Table 34. Global Hydrogen Liquefaction System Revenue Market Share by Company (2021-2026)

Table 35. Global Hydrogen Liquefaction System Sale Price by Company (2021-2026) & (K US\$/Unit)

Table 36. Key Manufacturers Hydrogen Liquefaction System Producing Area Distribution and Sales Area

Table 37. Players Hydrogen Liquefaction System Products Offered

Table 38. Hydrogen Liquefaction System Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 39. New Products and Potential Entrants

Table 40. Market M&A Activity & Strategy

Table 41. Global Hydrogen Liquefaction System Sales by Geographic Region (2021-2026) & (Units)

Table 42. Global Hydrogen Liquefaction System Sales Market Share Geographic Region (2021-2026)

Table 43. Global Hydrogen Liquefaction System Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 44. Global Hydrogen Liquefaction System Revenue Market Share by Geographic Region (2021-2026)

Table 45. Global Hydrogen Liquefaction System Sales by Country/Region (2021-2026) & (Units)

Table 46. Global Hydrogen Liquefaction System Sales Market Share by Country/Region (2021-2026)

Table 47. Global Hydrogen Liquefaction System Revenue by Country/Region (2021-2026) & (\$ millions)

Table 48. Global Hydrogen Liquefaction System Revenue Market Share by Country/Region (2021-2026)

Table 49. Americas Hydrogen Liquefaction System Sales by Country (2021-2026) & (Units)

Table 50. Americas Hydrogen Liquefaction System Sales Market Share by Country (2021-2026)

Table 51. Americas Hydrogen Liquefaction System Revenue by Country (2021-2026) & (\$ millions)

Table 52. Americas Hydrogen Liquefaction System Sales by Type (2021-2026) & (Units)

Table 53. Americas Hydrogen Liquefaction System Sales by Application (2021-2026) & (Units)

Table 54. APAC Hydrogen Liquefaction System Sales by Region (2021-2026) & (Units)

Table 55. APAC Hydrogen Liquefaction System Sales Market Share by Region (2021-2026)

Table 56. APAC Hydrogen Liquefaction System Revenue by Region (2021-2026) & (\$ millions)

Table 57. APAC Hydrogen Liquefaction System Sales by Type (2021-2026) & (Units)

Table 58. APAC Hydrogen Liquefaction System Sales by Application (2021-2026) & (Units)

Table 59. Europe Hydrogen Liquefaction System Sales by Country (2021-2026) & (Units)

Table 60. Europe Hydrogen Liquefaction System Revenue by Country (2021-2026) & (\$ millions)

Table 61. Europe Hydrogen Liquefaction System Sales by Type (2021-2026) & (Units)

Table 62. Europe Hydrogen Liquefaction System Sales by Application (2021-2026) & (Units)

Table 63. Middle East & Africa Hydrogen Liquefaction System Sales by Country (2021-2026) & (Units)

Table 64. Middle East & Africa Hydrogen Liquefaction System Revenue Market Share by Country (2021-2026)

Table 65. Middle East & Africa Hydrogen Liquefaction System Sales by Type (2021-2026) & (Units)
Table 66. Middle East & Africa Hydrogen Liquefaction System Sales by Application (2021-2026) & (Units)
Table 67. Key Market Drivers & Growth Opportunities of Hydrogen Liquefaction System
Table 68. Key Market Challenges & Risks of Hydrogen Liquefaction System
Table 69. Key Industry Trends of Hydrogen Liquefaction System
Table 70. Hydrogen Liquefaction System Raw Material
Table 71. Key Suppliers of Raw Materials
Table 72. Hydrogen Liquefaction System Distributors List
Table 73. Hydrogen Liquefaction System Customer List
Table 74. Global Hydrogen Liquefaction System Sales Forecast by Region (2027-2032) & (Units)
Table 75. Global Hydrogen Liquefaction System Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 76. Americas Hydrogen Liquefaction System Sales Forecast by Country (2027-2032) & (Units)
Table 77. Americas Hydrogen Liquefaction System Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 78. APAC Hydrogen Liquefaction System Sales Forecast by Region (2027-2032) & (Units)
Table 79. APAC Hydrogen Liquefaction System Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 80. Europe Hydrogen Liquefaction System Sales Forecast by Country (2027-2032) & (Units)
Table 81. Europe Hydrogen Liquefaction System Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 82. Middle East & Africa Hydrogen Liquefaction System Sales Forecast by Country (2027-2032) & (Units)
Table 83. Middle East & Africa Hydrogen Liquefaction System Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 84. Global Hydrogen Liquefaction System Sales Forecast by Type (2027-2032) & (Units)
Table 85. Global Hydrogen Liquefaction System Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 86. Global Hydrogen Liquefaction System Sales Forecast by Application (2027-2032) & (Units)
Table 87. Global Hydrogen Liquefaction System Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 88. Linde Engineering Basic Information, Hydrogen Liquefaction System Manufacturing Base, Sales Area and Its Competitors

Table 89. Linde Engineering Hydrogen Liquefaction System Product Portfolios and Specifications

Table 90. Linde Engineering Hydrogen Liquefaction System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 91. Linde Engineering Main Business

Table 92. Linde Engineering Latest Developments

Table 93. Air Liquide Basic Information, Hydrogen Liquefaction System Manufacturing Base, Sales Area and Its Competitors

Table 94. Air Liquide Hydrogen Liquefaction System Product Portfolios and Specifications

Table 95. Air Liquide Hydrogen Liquefaction System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 96. Air Liquide Main Business

Table 97. Air Liquide Latest Developments

Table 98. Chart Industries Basic Information, Hydrogen Liquefaction System Manufacturing Base, Sales Area and Its Competitors

Table 99. Chart Industries Hydrogen Liquefaction System Product Portfolios and Specifications

Table 100. Chart Industries Hydrogen Liquefaction System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 101. Chart Industries Main Business

Table 102. Chart Industries Latest Developments

Table 103. Air Products Basic Information, Hydrogen Liquefaction System Manufacturing Base, Sales Area and Its Competitors

Table 104. Air Products Hydrogen Liquefaction System Product Portfolios and Specifications

Table 105. Air Products Hydrogen Liquefaction System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 106. Air Products Main Business

Table 107. Air Products Latest Developments

Table 108. GenH2 Discover Hydrogen Basic Information, Hydrogen Liquefaction System Manufacturing Base, Sales Area and Its Competitors

Table 109. GenH2 Discover Hydrogen Hydrogen Liquefaction System Product Portfolios and Specifications

Table 110. GenH2 Discover Hydrogen Hydrogen Liquefaction System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 111. GenH2 Discover Hydrogen Main Business

Table 112. GenH2 Discover Hydrogen Latest Developments
Table 113. Plug Power Basic Information, Hydrogen Liquefaction System Manufacturing Base, Sales Area and Its Competitors
Table 114. Plug Power Hydrogen Liquefaction System Product Portfolios and Specifications
Table 115. Plug Power Hydrogen Liquefaction System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
Table 116. Plug Power Main Business
Table 117. Plug Power Latest Developments
Table 118. Kawasaki Heavy Industries Basic Information, Hydrogen Liquefaction System Manufacturing Base, Sales Area and Its Competitors
Table 119. Kawasaki Heavy Industries Hydrogen Liquefaction System Product Portfolios and Specifications
Table 120. Kawasaki Heavy Industries Hydrogen Liquefaction System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
Table 121. Kawasaki Heavy Industries Main Business
Table 122. Kawasaki Heavy Industries Latest Developments
Table 123. Iwatani Basic Information, Hydrogen Liquefaction System Manufacturing Base, Sales Area and Its Competitors
Table 124. Iwatani Hydrogen Liquefaction System Product Portfolios and Specifications
Table 125. Iwatani Hydrogen Liquefaction System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
Table 126. Iwatani Main Business
Table 127. Iwatani Latest Developments
Table 128. Hylium Industries Basic Information, Hydrogen Liquefaction System Manufacturing Base, Sales Area and Its Competitors
Table 129. Hylium Industries Hydrogen Liquefaction System Product Portfolios and Specifications
Table 130. Hylium Industries Hydrogen Liquefaction System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
Table 131. Hylium Industries Main Business
Table 132. Hylium Industries Latest Developments
Table 133. Sumitomo Seika Chemicals Basic Information, Hydrogen Liquefaction System Manufacturing Base, Sales Area and Its Competitors
Table 134. Sumitomo Seika Chemicals Hydrogen Liquefaction System Product Portfolios and Specifications
Table 135. Sumitomo Seika Chemicals Hydrogen Liquefaction System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)
Table 136. Sumitomo Seika Chemicals Main Business

Table 137. Sumitomo Seika Chemicals Latest Developments

Table 138. Zhongke Fuhai Technology Basic Information, Hydrogen Liquefaction System Manufacturing Base, Sales Area and Its Competitors

Table 139. Zhongke Fuhai Technology Hydrogen Liquefaction System Product Portfolios and Specifications

Table 140. Zhongke Fuhai Technology Hydrogen Liquefaction System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 141. Zhongke Fuhai Technology Main Business

Table 142. Zhongke Fuhai Technology Latest Developments

Table 143. Jiangsu Guofu Hydrogen Energy Equipment Basic Information, Hydrogen Liquefaction System Manufacturing Base, Sales Area and Its Competitors

Table 144. Jiangsu Guofu Hydrogen Energy Equipment Hydrogen Liquefaction System Product Portfolios and Specifications

Table 145. Jiangsu Guofu Hydrogen Energy Equipment Hydrogen Liquefaction System Sales (Units), Revenue (\$ Million), Price (K US\$/Unit) and Gross Margin (2021-2026)

Table 146. Jiangsu Guofu Hydrogen Energy Equipment Main Business

Table 147. Jiangsu Guofu Hydrogen Energy Equipment Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Hydrogen Liquefaction System

Figure 2. Hydrogen Liquefaction System Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Hydrogen Liquefaction System Sales Growth Rate 2021-2032 (Units)

Figure 7. Global Hydrogen Liquefaction System Revenue Growth Rate 2021-2032 (\$ millions)

Figure 8. Hydrogen Liquefaction System Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Figure 9. Hydrogen Liquefaction System Sales Market Share by Country/Region (2025)

Figure 10. Hydrogen Liquefaction System Sales Market Share by Country/Region (2021, 2025 & 2032)

Figure 11. Product Picture of Cryogenic Hydrogen

Figure 12. Product Picture of Pressure Swing Adsorption (PSA)

Figure 13. Product Picture of Membrane Separation

Figure 14. Global Hydrogen Liquefaction System Sales Market Share by Type in 2026

Figure 15. Global Hydrogen Liquefaction System Revenue Market Share by Type (2021-2026)

Figure 16. Product Picture of Large Industrial Grade

Figure 17. Product Picture of Medium Regional Grade

Figure 18. Product Picture of Small Laboratory Grade

Figure 19. Global Hydrogen Liquefaction System Sales Market Share by Processing Capacity in 2026

Figure 20. Global Hydrogen Liquefaction System Revenue Market Share by Processing Capacity (2021-2026)

Figure 21. Product Picture of Stationary Type

Figure 22. Product Picture of Mobile Type

Figure 23. Global Hydrogen Liquefaction System Sales Market Share by Equipment Form in 2026

Figure 24. Global Hydrogen Liquefaction System Revenue Market Share by Equipment Form (2021-2026)

Figure 25. Hydrogen Liquefaction System Consumed in Hydrogen Storage and Transportation

Figure 26. Global Hydrogen Liquefaction System Market: Hydrogen Storage and

Transportation (2021-2026) & (Units)

Figure 27. Hydrogen Liquefaction System Consumed in Mobility and Refueling

Figure 28. Global Hydrogen Liquefaction System Market: Mobility and Refueling (2021-2026) & (Units)

Figure 29. Hydrogen Liquefaction System Consumed in Aerospace

Figure 30. Global Hydrogen Liquefaction System Market: Aerospace (2021-2026) & (Units)

Figure 31. Hydrogen Liquefaction System Consumed in Industrial Gas and Chemical Industry

Figure 32. Global Hydrogen Liquefaction System Market: Industrial Gas and Chemical Industry (2021-2026) & (Units)

Figure 33. Hydrogen Liquefaction System Consumed in Others

Figure 34. Global Hydrogen Liquefaction System Market: Others (2021-2026) & (Units)

Figure 35. Global Hydrogen Liquefaction System Sale Market Share by Application (2025)

Figure 36. Global Hydrogen Liquefaction System Revenue Market Share by Application in 2025

Figure 37. Hydrogen Liquefaction System Sales by Company in 2025 (Units)

Figure 38. Global Hydrogen Liquefaction System Sales Market Share by Company in 2025

Figure 39. Hydrogen Liquefaction System Revenue by Company in 2025 (\$ millions)

Figure 40. Global Hydrogen Liquefaction System Revenue Market Share by Company in 2025

Figure 41. Global Hydrogen Liquefaction System Sales Market Share by Geographic Region (2021-2026)

Figure 42. Global Hydrogen Liquefaction System Revenue Market Share by Geographic Region in 2025

Figure 43. Americas Hydrogen Liquefaction System Sales 2021-2026 (Units)

Figure 44. Americas Hydrogen Liquefaction System Revenue 2021-2026 (\$ millions)

Figure 45. APAC Hydrogen Liquefaction System Sales 2021-2026 (Units)

Figure 46. APAC Hydrogen Liquefaction System Revenue 2021-2026 (\$ millions)

Figure 47. Europe Hydrogen Liquefaction System Sales 2021-2026 (Units)

Figure 48. Europe Hydrogen Liquefaction System Revenue 2021-2026 (\$ millions)

Figure 49. Middle East & Africa Hydrogen Liquefaction System Sales 2021-2026 (Units)

Figure 50. Middle East & Africa Hydrogen Liquefaction System Revenue 2021-2026 (\$ millions)

Figure 51. Americas Hydrogen Liquefaction System Sales Market Share by Country in 2025

Figure 52. Americas Hydrogen Liquefaction System Revenue Market Share by Country

(2021-2026)

Figure 53. Americas Hydrogen Liquefaction System Sales Market Share by Type

(2021-2026)

Figure 54. Americas Hydrogen Liquefaction System Sales Market Share by Application

(2021-2026)

Figure 55. United States Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 56. Canada Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 57. Mexico Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 58. Brazil Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 59. APAC Hydrogen Liquefaction System Sales Market Share by Region in 2025

Figure 60. APAC Hydrogen Liquefaction System Revenue Market Share by Region (2021-2026)

Figure 61. APAC Hydrogen Liquefaction System Sales Market Share by Type (2021-2026)

Figure 62. APAC Hydrogen Liquefaction System Sales Market Share by Application (2021-2026)

Figure 63. China Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 64. Japan Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 65. South Korea Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 66. Southeast Asia Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 67. India Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 68. Australia Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 69. China Taiwan Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 70. Europe Hydrogen Liquefaction System Sales Market Share by Country in 2025

Figure 71. Europe Hydrogen Liquefaction System Revenue Market Share by Country (2021-2026)

Figure 72. Europe Hydrogen Liquefaction System Sales Market Share by Type (2021-2026)

Figure 73. Europe Hydrogen Liquefaction System Sales Market Share by Application (2021-2026)

Figure 74. Germany Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 75. France Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 76. UK Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 77. Italy Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 78. Russia Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 79. Middle East & Africa Hydrogen Liquefaction System Sales Market Share by Country (2021-2026)

Figure 80. Middle East & Africa Hydrogen Liquefaction System Sales Market Share by Type (2021-2026)

Figure 81. Middle East & Africa Hydrogen Liquefaction System Sales Market Share by Application (2021-2026)

Figure 82. Egypt Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 83. South Africa Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 84. Israel Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 85. Turkey Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 86. GCC Countries Hydrogen Liquefaction System Revenue Growth 2021-2026 (\$ millions)

Figure 87. Manufacturing Cost Structure Analysis of Hydrogen Liquefaction System in 2026

Figure 88. Manufacturing Process Analysis of Hydrogen Liquefaction System

Figure 89. Industry Chain Structure of Hydrogen Liquefaction System

Figure 90. Channels of Distribution

Figure 91. Global Hydrogen Liquefaction System Sales Market Forecast by Region (2027-2032)

Figure 92. Global Hydrogen Liquefaction System Revenue Market Share Forecast by Region (2027-2032)

Figure 93. Global Hydrogen Liquefaction System Sales Market Share Forecast by Type (2027-2032)

Figure 94. Global Hydrogen Liquefaction System Revenue Market Share Forecast by Type (2027-2032)

Figure 95. Global Hydrogen Liquefaction System Sales Market Share Forecast by Application (2027-2032)

Figure 96. Global Hydrogen Liquefaction System Revenue Market Share Forecast by Application (2027-2032)

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