

Global Hydrogen Storage Materials Market Research Report 2025(Status and Outlook)

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Abstracts

Hydrogen storage materials encompass a range of physical and chemical systems designed to safely and efficiently store hydrogen for various applications, including transportation, stationary power, and portable energy devices, with the primary objective of achieving high storage capacity, rapid charge/discharge kinetics, and favorable thermodynamic properties under practical operating conditions. These materials are broadly categorized into physical storage methods, such as compressed gas and cryogenic liquid hydrogen, and material-based storage methods, which include adsorbents like metal-organic frameworks (MOFs), chemical hydrides that release hydrogen through reversible reactions, and intermetallic compounds (e.g., LaNi₅-based alloys) that form metal hydrides, each offering distinct trade-offs in terms of volumetric and gravimetric density, operating pressure and temperature requirements, cyclability, and system integration complexity.

The global Hydrogen Storage Materials market size was estimated at USD 520.75 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 5.20% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Hydrogen Storage Materials market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current

status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Hydrogen Storage Materials market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Hydrogen Storage Materials market.

Global Hydrogen Storage Materials Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Japan Metals & Chemicals (JMC)
Chou Denki Kogyo (CDK)
Santoku
Mitsui
GFE
Treibacher
Xiamen Tungsten

Market Segmentation (by Type)

Hydrogen Storage Metal & Alloy
Nanomaterials
Zeolite
Others

Market Segmentation (by Application)

Automotive
Power Generation
Others

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Hydrogen Storage Materials Market
Overview of the regional outlook of the Hydrogen Storage Materials Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Hydrogen Storage Materials Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Hydrogen Storage Materials, their output value, profit level, regional supply, production capacity layout, etc. from the

supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major

players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Hydrogen Storage Materials

1.2 Key Market Segments

1.2.1 Hydrogen Storage Materials Segment by Type

1.2.2 Hydrogen Storage Materials Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 HYDROGEN STORAGE MATERIALS MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Hydrogen Storage Materials Market Size (M USD) Estimates and Forecasts (2020-2033)

2.1.2 Global Hydrogen Storage Materials Sales Estimates and Forecasts (2020-2033)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 HYDROGEN STORAGE MATERIALS MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Hydrogen Storage Materials Product Life Cycle

3.3 Global Hydrogen Storage Materials Sales by Manufacturers (2020-2025)

3.4 Global Hydrogen Storage Materials Revenue Market Share by Manufacturers (2020-2025)

3.5 Hydrogen Storage Materials Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Hydrogen Storage Materials Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Hydrogen Storage Materials Market Competitive Situation and Trends

3.8.1 Hydrogen Storage Materials Market Concentration Rate

3.8.2 Global 5 and 10 Largest Hydrogen Storage Materials Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 HYDROGEN STORAGE MATERIALS INDUSTRY CHAIN ANALYSIS

4.1 Hydrogen Storage Materials Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF HYDROGEN STORAGE MATERIALS MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Hydrogen Storage Materials Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Hydrogen Storage Materials Market

5.7 ESG Ratings of Leading Companies

6 HYDROGEN STORAGE MATERIALS MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Hydrogen Storage Materials Sales Market Share by Type (2020-2025)

6.3 Global Hydrogen Storage Materials Market Size Market Share by Type (2020-2025)

6.4 Global Hydrogen Storage Materials Price by Type (2020-2025)

7 HYDROGEN STORAGE MATERIALS MARKET SEGMENTATION BY

APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Hydrogen Storage Materials Market Sales by Application (2020-2025)
- 7.3 Global Hydrogen Storage Materials Market Size (M USD) by Application (2020-2025)
- 7.4 Global Hydrogen Storage Materials Sales Growth Rate by Application (2020-2025)

8 HYDROGEN STORAGE MATERIALS MARKET SALES BY REGION

- 8.1 Global Hydrogen Storage Materials Sales by Region
 - 8.1.1 Global Hydrogen Storage Materials Sales by Region
 - 8.1.2 Global Hydrogen Storage Materials Sales Market Share by Region
- 8.2 Global Hydrogen Storage Materials Market Size by Region
 - 8.2.1 Global Hydrogen Storage Materials Market Size by Region
 - 8.2.2 Global Hydrogen Storage Materials Market Size Market Share by Region
- 8.3 North America
 - 8.3.1 North America Hydrogen Storage Materials Sales by Country
 - 8.3.2 North America Hydrogen Storage Materials Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Hydrogen Storage Materials Sales by Country
 - 8.4.2 Europe Hydrogen Storage Materials Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Hydrogen Storage Materials Sales by Region
 - 8.5.2 Asia Pacific Hydrogen Storage Materials Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America

- 8.6.1 South America Hydrogen Storage Materials Sales by Country
- 8.6.2 South America Hydrogen Storage Materials Market Size by Country
- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Hydrogen Storage Materials Sales by Region
 - 8.7.2 Middle East and Africa Hydrogen Storage Materials Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 HYDROGEN STORAGE MATERIALS MARKET PRODUCTION BY REGION

- 9.1 Global Production of Hydrogen Storage Materials by Region(2020-2025)
- 9.2 Global Hydrogen Storage Materials Revenue Market Share by Region (2020-2025)
- 9.3 Global Hydrogen Storage Materials Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Hydrogen Storage Materials Production
 - 9.4.1 North America Hydrogen Storage Materials Production Growth Rate (2020-2025)
 - 9.4.2 North America Hydrogen Storage Materials Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Hydrogen Storage Materials Production
 - 9.5.1 Europe Hydrogen Storage Materials Production Growth Rate (2020-2025)
 - 9.5.2 Europe Hydrogen Storage Materials Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Hydrogen Storage Materials Production (2020-2025)
 - 9.6.1 Japan Hydrogen Storage Materials Production Growth Rate (2020-2025)
 - 9.6.2 Japan Hydrogen Storage Materials Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Hydrogen Storage Materials Production (2020-2025)
 - 9.7.1 China Hydrogen Storage Materials Production Growth Rate (2020-2025)
 - 9.7.2 China Hydrogen Storage Materials Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Japan Metals and Chemicals (JMC)

10.1.1 Japan Metals and Chemicals (JMC) Basic Information

10.1.2 Japan Metals and Chemicals (JMC) Hydrogen Storage Materials Product Overview

10.1.3 Japan Metals and Chemicals (JMC) Hydrogen Storage Materials Product Market Performance

10.1.4 Japan Metals and Chemicals (JMC) Business Overview

10.1.5 Japan Metals and Chemicals (JMC) SWOT Analysis

10.1.6 Japan Metals and Chemicals (JMC) Recent Developments

10.2 Chou Denki Kogyo (CDK)

10.2.1 Chou Denki Kogyo (CDK) Basic Information

10.2.2 Chou Denki Kogyo (CDK) Hydrogen Storage Materials Product Overview

10.2.3 Chou Denki Kogyo (CDK) Hydrogen Storage Materials Product Market Performance

10.2.4 Chou Denki Kogyo (CDK) Business Overview

10.2.5 Chou Denki Kogyo (CDK) SWOT Analysis

10.2.6 Chou Denki Kogyo (CDK) Recent Developments

10.3 Santoku

10.3.1 Santoku Basic Information

10.3.2 Santoku Hydrogen Storage Materials Product Overview

10.3.3 Santoku Hydrogen Storage Materials Product Market Performance

10.3.4 Santoku Business Overview

10.3.5 Santoku SWOT Analysis

10.3.6 Santoku Recent Developments

10.4 Mitsui

10.4.1 Mitsui Basic Information

10.4.2 Mitsui Hydrogen Storage Materials Product Overview

10.4.3 Mitsui Hydrogen Storage Materials Product Market Performance

10.4.4 Mitsui Business Overview

10.4.5 Mitsui Recent Developments

10.5 GFE

10.5.1 GFE Basic Information

10.5.2 GFE Hydrogen Storage Materials Product Overview

10.5.3 GFE Hydrogen Storage Materials Product Market Performance

10.5.4 GFE Business Overview

10.5.5 GFE Recent Developments

10.6 Treibacher

10.6.1 Treibacher Basic Information

10.6.2 Treibacher Hydrogen Storage Materials Product Overview

- 10.6.3 Treibacher Hydrogen Storage Materials Product Market Performance
- 10.6.4 Treibacher Business Overview
- 10.6.5 Treibacher Recent Developments
- 10.7 Xiamen Tungsten
 - 10.7.1 Xiamen Tungsten Basic Information
 - 10.7.2 Xiamen Tungsten Hydrogen Storage Materials Product Overview
 - 10.7.3 Xiamen Tungsten Hydrogen Storage Materials Product Market Performance
 - 10.7.4 Xiamen Tungsten Business Overview
 - 10.7.5 Xiamen Tungsten Recent Developments

11 HYDROGEN STORAGE MATERIALS MARKET FORECAST BY REGION

- 11.1 Global Hydrogen Storage Materials Market Size Forecast
- 11.2 Global Hydrogen Storage Materials Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Hydrogen Storage Materials Market Size Forecast by Country
 - 11.2.3 Asia Pacific Hydrogen Storage Materials Market Size Forecast by Region
 - 11.2.4 South America Hydrogen Storage Materials Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Hydrogen Storage Materials by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

- 12.1 Global Hydrogen Storage Materials Market Forecast by Type (2026-2033)
 - 12.1.1 Global Forecasted Sales of Hydrogen Storage Materials by Type (2026-2033)
 - 12.1.2 Global Hydrogen Storage Materials Market Size Forecast by Type (2026-2033)
 - 12.1.3 Global Forecasted Price of Hydrogen Storage Materials by Type (2026-2033)
- 12.2 Global Hydrogen Storage Materials Market Forecast by Application (2026-2033)
 - 12.2.1 Global Hydrogen Storage Materials Sales (K MT) Forecast by Application
 - 12.2.2 Global Hydrogen Storage Materials Market Size (M USD) Forecast by Application (2026-2033)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Hydrogen Storage Materials Market Size Comparison by Region (M USD)

Table 5. Global Hydrogen Storage Materials Sales (K MT) by Manufacturers
(2020-2025)

Table 6. Global Hydrogen Storage Materials Sales Market Share by Manufacturers
(2020-2025)

Table 7. Global Hydrogen Storage Materials Revenue (M USD) by Manufacturers
(2020-2025)

Table 8. Global Hydrogen Storage Materials Revenue Share by Manufacturers
(2020-2025)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in
Hydrogen Storage Materials as of 2024)

Table 10. Global Market Hydrogen Storage Materials Average Price (USD/KG) of Key
Manufacturers (2020-2025)

Table 11. Manufacturers? Manufacturing Sites, Areas Served

Table 12. Manufacturers? Product Type

Table 13. Global Hydrogen Storage Materials Manufacturers Market Concentration
Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Market Overview of Key Raw Materials

Table 16. Midstream Market Analysis

Table 17. Downstream Customer Analysis

Table 18. Key Development Trends

Table 19. Driving Factors

Table 20. Hydrogen Storage Materials Market Challenges

Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026

Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027

Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026

Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading
Countries

Table 25. Global Hydrogen Storage Materials Sales by Type (K MT)

Table 26. Global Hydrogen Storage Materials Market Size by Type (M USD)

Table 27. Global Hydrogen Storage Materials Sales (K MT) by Type (2020-2025)

Table 28. Global Hydrogen Storage Materials Sales Market Share by Type (2020-2025)

Table 29. Global Hydrogen Storage Materials Market Size (M USD) by Type (2020-2025)

Table 30. Global Hydrogen Storage Materials Market Size Share by Type (2020-2025)

Table 31. Global Hydrogen Storage Materials Price (USD/KG) by Type (2020-2025)

Table 32. Global Hydrogen Storage Materials Sales (K MT) by Application

Table 33. Global Hydrogen Storage Materials Market Size by Application

Table 34. Global Hydrogen Storage Materials Sales by Application (2020-2025) & (K MT)

Table 35. Global Hydrogen Storage Materials Sales Market Share by Application (2020-2025)

Table 36. Global Hydrogen Storage Materials Market Size by Application (2020-2025) & (M USD)

Table 37. Global Hydrogen Storage Materials Market Share by Application (2020-2025)

Table 38. Global Hydrogen Storage Materials Sales Growth Rate by Application (2020-2025)

Table 39. Global Hydrogen Storage Materials Sales by Region (2020-2025) & (K MT)

Table 40. Global Hydrogen Storage Materials Sales Market Share by Region (2020-2025)

Table 41. Global Hydrogen Storage Materials Market Size by Region (2020-2025) & (M USD)

Table 42. Global Hydrogen Storage Materials Market Size Market Share by Region (2020-2025)

Table 43. North America Hydrogen Storage Materials Sales by Country (2020-2025) & (K MT)

Table 44. North America Hydrogen Storage Materials Market Size by Country (2020-2025) & (M USD)

Table 45. Europe Hydrogen Storage Materials Sales by Country (2020-2025) & (K MT)

Table 46. Europe Hydrogen Storage Materials Market Size by Country (2020-2025) & (M USD)

Table 47. Asia Pacific Hydrogen Storage Materials Sales by Region (2020-2025) & (K MT)

Table 48. Asia Pacific Hydrogen Storage Materials Market Size by Region (2020-2025) & (M USD)

Table 49. South America Hydrogen Storage Materials Sales by Country (2020-2025) & (K MT)

Table 50. South America Hydrogen Storage Materials Market Size by Country (2020-2025) & (M USD)

Table 51. Middle East and Africa Hydrogen Storage Materials Sales by Region

(2020-2025) & (K MT)

Table 52. Middle East and Africa Hydrogen Storage Materials Market Size by Region (2020-2025) & (M USD)

Table 53. Global Hydrogen Storage Materials Production (K MT) by Region(2020-2025)

Table 54. Global Hydrogen Storage Materials Revenue (US\$ Million) by Region (2020-2025)

Table 55. Global Hydrogen Storage Materials Revenue Market Share by Region (2020-2025)

Table 56. Global Hydrogen Storage Materials Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 57. North America Hydrogen Storage Materials Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 58. Europe Hydrogen Storage Materials Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Japan Hydrogen Storage Materials Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. China Hydrogen Storage Materials Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. Japan Metals and Chemicals (JMC) Basic Information

Table 62. Japan Metals and Chemicals (JMC) Hydrogen Storage Materials Product Overview

Table 63. Japan Metals and Chemicals (JMC) Hydrogen Storage Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 64. Japan Metals and Chemicals (JMC) Business Overview

Table 65. Japan Metals and Chemicals (JMC) SWOT Analysis

Table 66. Japan Metals and Chemicals (JMC) Recent Developments

Table 67. Chou Denki Kogyo (CDK) Basic Information

Table 68. Chou Denki Kogyo (CDK) Hydrogen Storage Materials Product Overview

Table 69. Chou Denki Kogyo (CDK) Hydrogen Storage Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 70. Chou Denki Kogyo (CDK) Business Overview

Table 71. Chou Denki Kogyo (CDK) SWOT Analysis

Table 72. Chou Denki Kogyo (CDK) Recent Developments

Table 73. Santoku Basic Information

Table 74. Santoku Hydrogen Storage Materials Product Overview

Table 75. Santoku Hydrogen Storage Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 76. Santoku Business Overview

Table 77. Santoku SWOT Analysis

Table 78. Santoku Recent Developments
Table 79. Mitsui Basic Information
Table 80. Mitsui Hydrogen Storage Materials Product Overview
Table 81. Mitsui Hydrogen Storage Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 82. Mitsui Business Overview
Table 83. Mitsui Recent Developments
Table 84. GFE Basic Information
Table 85. GFE Hydrogen Storage Materials Product Overview
Table 86. GFE Hydrogen Storage Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 87. GFE Business Overview
Table 88. GFE Recent Developments
Table 89. Treibacher Basic Information
Table 90. Treibacher Hydrogen Storage Materials Product Overview
Table 91. Treibacher Hydrogen Storage Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 92. Treibacher Business Overview
Table 93. Treibacher Recent Developments
Table 94. Xiamen Tungsten Basic Information
Table 95. Xiamen Tungsten Hydrogen Storage Materials Product Overview
Table 96. Xiamen Tungsten Hydrogen Storage Materials Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
Table 97. Xiamen Tungsten Business Overview
Table 98. Xiamen Tungsten Recent Developments
Table 99. Global Hydrogen Storage Materials Sales Forecast by Region (2026-2033) & (K MT)
Table 100. Global Hydrogen Storage Materials Market Size Forecast by Region (2026-2033) & (M USD)
Table 101. North America Hydrogen Storage Materials Sales Forecast by Country (2026-2033) & (K MT)
Table 102. North America Hydrogen Storage Materials Market Size Forecast by Country (2026-2033) & (M USD)
Table 103. Europe Hydrogen Storage Materials Sales Forecast by Country (2026-2033) & (K MT)
Table 104. Europe Hydrogen Storage Materials Market Size Forecast by Country (2026-2033) & (M USD)
Table 105. Asia Pacific Hydrogen Storage Materials Sales Forecast by Region (2026-2033) & (K MT)

Table 106. Asia Pacific Hydrogen Storage Materials Market Size Forecast by Region (2026-2033) & (M USD)

Table 107. South America Hydrogen Storage Materials Sales Forecast by Country (2026-2033) & (K MT)

Table 108. South America Hydrogen Storage Materials Market Size Forecast by Country (2026-2033) & (M USD)

Table 109. Middle East and Africa Hydrogen Storage Materials Sales Forecast by Country (2026-2033) & (Units)

Table 110. Middle East and Africa Hydrogen Storage Materials Market Size Forecast by Country (2026-2033) & (M USD)

Table 111. Global Hydrogen Storage Materials Sales Forecast by Type (2026-2033) & (K MT)

Table 112. Global Hydrogen Storage Materials Market Size Forecast by Type (2026-2033) & (M USD)

Table 113. Global Hydrogen Storage Materials Price Forecast by Type (2026-2033) & (USD/KG)

Table 114. Global Hydrogen Storage Materials Sales (K MT) Forecast by Application (2026-2033)

Table 115. Global Hydrogen Storage Materials Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Hydrogen Storage Materials
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Hydrogen Storage Materials Market Size (M USD), 2024-2033
- Figure 5. Global Hydrogen Storage Materials Market Size (M USD) (2020-2033)
- Figure 6. Global Hydrogen Storage Materials Sales (K MT) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Hydrogen Storage Materials Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Hydrogen Storage Materials Product Life Cycle
- Figure 13. Hydrogen Storage Materials Sales Share by Manufacturers in 2024
- Figure 14. Global Hydrogen Storage Materials Revenue Share by Manufacturers in 2024
- Figure 15. Hydrogen Storage Materials Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Hydrogen Storage Materials Average Price (USD/KG) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Hydrogen Storage Materials Revenue in 2024
- Figure 18. Industry Chain Map of Hydrogen Storage Materials
- Figure 19. Global Hydrogen Storage Materials Market PEST Analysis
- Figure 20. Global Hydrogen Storage Materials Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Hydrogen Storage Materials Market Share by Type
- Figure 27. Sales Market Share of Hydrogen Storage Materials by Type (2020-2025)
- Figure 28. Sales Market Share of Hydrogen Storage Materials by Type in 2024
- Figure 29. Market Size Share of Hydrogen Storage Materials by Type (2020-2025)
- Figure 30. Market Size Share of Hydrogen Storage Materials by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global Hydrogen Storage Materials Market Share by Application
- Figure 33. Global Hydrogen Storage Materials Sales Market Share by Application (2020-2025)
- Figure 34. Global Hydrogen Storage Materials Sales Market Share by Application in 2024
- Figure 35. Global Hydrogen Storage Materials Market Share by Application (2020-2025)
- Figure 36. Global Hydrogen Storage Materials Market Share by Application in 2024
- Figure 37. Global Hydrogen Storage Materials Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Hydrogen Storage Materials Sales Market Share by Region (2020-2025)
- Figure 39. Global Hydrogen Storage Materials Market Size Market Share by Region (2020-2025)
- Figure 40. North America Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)
- Figure 41. North America Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)
- Figure 42. North America Hydrogen Storage Materials Sales Market Share by Country in 2024
- Figure 43. North America Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Hydrogen Storage Materials Market Size Market Share by Country in 2024
- Figure 45. U.S. Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)
- Figure 46. U.S. Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Hydrogen Storage Materials Sales (K MT) and Growth Rate (2020-2025)
- Figure 48. Canada Hydrogen Storage Materials Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Hydrogen Storage Materials Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Hydrogen Storage Materials Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)
- Figure 52. Europe Hydrogen Storage Materials Sales Market Share by Country in 2024
- Figure 53. Europe Hydrogen Storage Materials Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 54. Europe Hydrogen Storage Materials Market Size Market Share by Country in 2024

Figure 55. Germany Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Hydrogen Storage Materials Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Hydrogen Storage Materials Sales Market Share by Region in 2024

Figure 67. Asia Pacific Hydrogen Storage Materials Market Size Market Share by Region in 2024

Figure 68. China Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Hydrogen Storage Materials Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 74. India Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Hydrogen Storage Materials Sales and Growth Rate (K MT)

Figure 79. South America Hydrogen Storage Materials Sales Market Share by Country in 2024

Figure 80. South America Hydrogen Storage Materials Market Size and Growth Rate (M USD)

Figure 81. South America Hydrogen Storage Materials Market Size Market Share by Country in 2024

Figure 82. Brazil Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Hydrogen Storage Materials Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Hydrogen Storage Materials Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Hydrogen Storage Materials Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Hydrogen Storage Materials Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Hydrogen Storage Materials Market Size and Growth Rate

(2020-2025) & (M USD)

Figure 94. UAE Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Hydrogen Storage Materials Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Hydrogen Storage Materials Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Hydrogen Storage Materials Production Market Share by Region (2020-2025)

Figure 103. North America Hydrogen Storage Materials Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Hydrogen Storage Materials Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Hydrogen Storage Materials Production (K MT) Growth Rate (2020-2025)

Figure 106. China Hydrogen Storage Materials Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Hydrogen Storage Materials Sales Forecast by Volume (2020-2033) & (K MT)

Figure 108. Global Hydrogen Storage Materials Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Hydrogen Storage Materials Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Hydrogen Storage Materials Market Share Forecast by Type (2026-2033)

Figure 111. Global Hydrogen Storage Materials Sales Forecast by Application (2026-2033)

Figure 112. Global Hydrogen Storage Materials Market Share Forecast by Application (2026-2033)

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