

Global Solid-state Hydrogen Storage Technology Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Solid-state Hydrogen Storage Technology market size is predicted to grow from US\$ 184 million in 2025 to US\$ 1274 million in 2032; it is expected to grow at a CAGR of 32.4% from 2026 to 2032.

Solid-state hydrogen storage technology refers to the use of solid materials, such as metal hydrides, chemical hydrides, or carbon-based materials, to absorb and store hydrogen gas in a stable, compact form at relatively low pressures and ambient temperatures. Unlike traditional gaseous or liquid hydrogen storage, solid-state storage involves hydrogen being chemically or physically bonded to a solid medium, which allows for higher energy density, improved safety, and easier handling. The stored hydrogen can be released when needed through heating or chemical reactions. This technology holds promise for efficient, long-term hydrogen storage solutions, particularly for applications like fuel cell vehicles and renewable energy storage.

United States market for Solid-state Hydrogen Storage Technology is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Solid-state Hydrogen Storage Technology is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Solid-state Hydrogen Storage Technology is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Solid-state Hydrogen Storage Technology players cover NPROXX, H2GO Power, Shanghai Hyfun Energy Technology, GKN Hydrogen, Whole Win New Energy Technology, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Solid-state Hydrogen Storage Technology 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 Solid-state Hydrogen Storage Technology.

This report presents a comprehensive overview, market shares, and growth opportunities of Solid-state Hydrogen Storage Technology market by product type, application, key players and key regions and countries.

Segmentation by Type:

Physical Adsorption Hydrogen Storage

Chemical Hydride Hydrogen Storage

Segmentation by Application:

Transportation

Industrial

Power Generation and Grid Balancing

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

NPROXX

H2GO Power

Shanghai Hyfun Energy Technology

GKN Hydrogen

Whole Win New Energy Technology

GRZ Technologies

Lavo

HySA

McPhy

Green Fortress

General Research Institute for Nonferrous Metals

Hystorsys

Plasma Kinetics

Electriq

AE&M

JOMI LEMAN

Mincatec Energy

Houpu Clean Energy

Shengyuan Environmental Protection

XTC New Energy Materials

Hongda Xingye

Sichuan Kexin Mechanical and Electrical Equipment

Baowu Magnesium Technology

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 Solid-state Hydrogen Storage Technology Market Size (2021-2032)
 - 2.1.2 Solid-state Hydrogen Storage Technology Market Size CAGR by Region (2021 VS 2025 VS 2032)
 - 2.1.3 World Current & Future Analysis for Solid-state Hydrogen Storage Technology by Country/Region (2021, 2025 & 2032)
- 2.2 Solid-state Hydrogen Storage Technology Segment by Type
 - 2.2.1 Physical Adsorption Hydrogen Storage
 - 2.2.2 Chemical Hydride Hydrogen Storage
 - 2.2.3 Solid-state Hydrogen Storage Technology Market Size by Type
 - 2.2.3.1 Solid-state Hydrogen Storage Technology Market Size CAGR by Type (2021 VS 2025 VS 2032)
 - 2.2.3.2 Global Solid-state Hydrogen Storage Technology Market Size Market Share by Type (2021-2026)
- 2.3 Solid-state Hydrogen Storage Technology Segment by Application
 - 2.3.1 Transportation
 - 2.3.2 Industrial
 - 2.3.3 Power Generation and Grid Balancing
 - 2.3.4 Others
 - 2.3.5 Solid-state Hydrogen Storage Technology Market Size by Application
 - 2.3.5.1 Solid-state Hydrogen Storage Technology Market Size CAGR by Application (2021 VS 2025 VS 2032)
 - 2.3.5.2 Global Solid-state Hydrogen Storage Technology Market Size Market Share by Application (2021-2026)

3 SOLID-STATE HYDROGEN STORAGE TECHNOLOGY MARKET SIZE BY PLAYER

3.1 Solid-state Hydrogen Storage Technology Market Size Market Share by Player

3.1.1 Global Solid-state Hydrogen Storage Technology Revenue by Player (2021-2026)

3.1.2 Global Solid-state Hydrogen Storage Technology Revenue Market Share by Player (2021-2026)

3.2 Global Solid-state Hydrogen Storage Technology Key Players Head office and Products Offered

3.3 Market Concentration Rate Analysis

3.3.1 Competition Landscape Analysis

3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.4 New Products and Potential Entrants

3.5 Mergers & Acquisitions, Expansion

4 SOLID-STATE HYDROGEN STORAGE TECHNOLOGY BY REGION

4.1 Solid-state Hydrogen Storage Technology Market Size by Region (2021-2026)

4.2 Global Solid-state Hydrogen Storage Technology Annual Revenue by Country/Region (2021-2026)

4.3 Americas Solid-state Hydrogen Storage Technology Market Size Growth (2021-2026)

4.4 APAC Solid-state Hydrogen Storage Technology Market Size Growth (2021-2026)

4.5 Europe Solid-state Hydrogen Storage Technology Market Size Growth (2021-2026)

4.6 Middle East & Africa Solid-state Hydrogen Storage Technology Market Size Growth (2021-2026)

5 AMERICAS

5.1 Americas Solid-state Hydrogen Storage Technology Market Size by Country (2021-2026)

5.2 Americas Solid-state Hydrogen Storage Technology Market Size by Type (2021-2026)

5.3 Americas Solid-state Hydrogen Storage Technology Market Size by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Solid-state Hydrogen Storage Technology Market Size by Region
(2021-2026)

6.2 APAC Solid-state Hydrogen Storage Technology Market Size by Type (2021-2026)

6.3 APAC Solid-state Hydrogen Storage Technology Market Size by Application
(2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

7 EUROPE

7.1 Europe Solid-state Hydrogen Storage Technology Market Size by Country
(2021-2026)

7.2 Europe Solid-state Hydrogen Storage Technology Market Size by Type (2021-2026)

7.3 Europe Solid-state Hydrogen Storage Technology Market Size 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 Solid-state Hydrogen Storage Technology by Region
(2021-2026)

8.2 Middle East & Africa Solid-state Hydrogen Storage Technology Market Size by Type
(2021-2026)

8.3 Middle East & Africa Solid-state Hydrogen Storage Technology Market Size 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 GLOBAL SOLID-STATE HYDROGEN STORAGE TECHNOLOGY MARKET FORECAST

10.1 Global Solid-state Hydrogen Storage Technology Forecast by Region (2027-2032)

10.1.1 Global Solid-state Hydrogen Storage Technology Forecast by Region (2027-2032)

10.1.2 Americas Solid-state Hydrogen Storage Technology Forecast

10.1.3 APAC Solid-state Hydrogen Storage Technology Forecast

10.1.4 Europe Solid-state Hydrogen Storage Technology Forecast

10.1.5 Middle East & Africa Solid-state Hydrogen Storage Technology Forecast

10.2 Americas Solid-state Hydrogen Storage Technology Forecast by Country (2027-2032)

10.2.1 United States Market Solid-state Hydrogen Storage Technology Forecast

10.2.2 Canada Market Solid-state Hydrogen Storage Technology Forecast

10.2.3 Mexico Market Solid-state Hydrogen Storage Technology Forecast

10.2.4 Brazil Market Solid-state Hydrogen Storage Technology Forecast

10.3 APAC Solid-state Hydrogen Storage Technology Forecast by Region (2027-2032)

10.3.1 China Solid-state Hydrogen Storage Technology Market Forecast

10.3.2 Japan Market Solid-state Hydrogen Storage Technology Forecast

10.3.3 Korea Market Solid-state Hydrogen Storage Technology Forecast

10.3.4 Southeast Asia Market Solid-state Hydrogen Storage Technology Forecast

10.3.5 India Market Solid-state Hydrogen Storage Technology Forecast

10.3.6 Australia Market Solid-state Hydrogen Storage Technology Forecast

10.4 Europe Solid-state Hydrogen Storage Technology Forecast by Country (2027-2032)

10.4.1 Germany Market Solid-state Hydrogen Storage Technology Forecast

10.4.2 France Market Solid-state Hydrogen Storage Technology Forecast

10.4.3 UK Market Solid-state Hydrogen Storage Technology Forecast

- 10.4.4 Italy Market Solid-state Hydrogen Storage Technology Forecast
- 10.4.5 Russia Market Solid-state Hydrogen Storage Technology Forecast
- 10.5 Middle East & Africa Solid-state Hydrogen Storage Technology Forecast by Region (2027-2032)
 - 10.5.1 Egypt Market Solid-state Hydrogen Storage Technology Forecast
 - 10.5.2 South Africa Market Solid-state Hydrogen Storage Technology Forecast
 - 10.5.3 Israel Market Solid-state Hydrogen Storage Technology Forecast
 - 10.5.4 Turkey Market Solid-state Hydrogen Storage Technology Forecast
- 10.6 Global Solid-state Hydrogen Storage Technology Forecast by Type (2027-2032)
- 10.7 Global Solid-state Hydrogen Storage Technology Forecast by Application (2027-2032)
 - 10.7.1 GCC Countries Market Solid-state Hydrogen Storage Technology Forecast

11 KEY PLAYERS ANALYSIS

11.1 NPROXX

- 11.1.1 NPROXX Company Information
- 11.1.2 NPROXX Solid-state Hydrogen Storage Technology Product Offered
- 11.1.3 NPROXX Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
- 11.1.4 NPROXX Main Business Overview
- 11.1.5 NPROXX Latest Developments

11.2 H2GO Power

- 11.2.1 H2GO Power Company Information
- 11.2.2 H2GO Power Solid-state Hydrogen Storage Technology Product Offered
- 11.2.3 H2GO Power Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
- 11.2.4 H2GO Power Main Business Overview
- 11.2.5 H2GO Power Latest Developments

11.3 Shanghai Hyfun Energy Technology

- 11.3.1 Shanghai Hyfun Energy Technology Company Information
- 11.3.2 Shanghai Hyfun Energy Technology Solid-state Hydrogen Storage Technology Product Offered
- 11.3.3 Shanghai Hyfun Energy Technology Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
- 11.3.4 Shanghai Hyfun Energy Technology Main Business Overview
- 11.3.5 Shanghai Hyfun Energy Technology Latest Developments

11.4 GKN Hydrogen

- 11.4.1 GKN Hydrogen Company Information

- 11.4.2 GKN Hydrogen Solid-state Hydrogen Storage Technology Product Offered
- 11.4.3 GKN Hydrogen Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
- 11.4.4 GKN Hydrogen Main Business Overview
- 11.4.5 GKN Hydrogen Latest Developments
- 11.5 Whole Win New Energy Technology
 - 11.5.1 Whole Win New Energy Technology Company Information
 - 11.5.2 Whole Win New Energy Technology Solid-state Hydrogen Storage Technology Product Offered
 - 11.5.3 Whole Win New Energy Technology Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.5.4 Whole Win New Energy Technology Main Business Overview
 - 11.5.5 Whole Win New Energy Technology Latest Developments
- 11.6 GRZ Technologies
 - 11.6.1 GRZ Technologies Company Information
 - 11.6.2 GRZ Technologies Solid-state Hydrogen Storage Technology Product Offered
 - 11.6.3 GRZ Technologies Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.6.4 GRZ Technologies Main Business Overview
 - 11.6.5 GRZ Technologies Latest Developments
- 11.7 Lavo
 - 11.7.1 Lavo Company Information
 - 11.7.2 Lavo Solid-state Hydrogen Storage Technology Product Offered
 - 11.7.3 Lavo Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.7.4 Lavo Main Business Overview
 - 11.7.5 Lavo Latest Developments
- 11.8 HySA
 - 11.8.1 HySA Company Information
 - 11.8.2 HySA Solid-state Hydrogen Storage Technology Product Offered
 - 11.8.3 HySA Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.8.4 HySA Main Business Overview
 - 11.8.5 HySA Latest Developments
- 11.9 McPhy
 - 11.9.1 McPhy Company Information
 - 11.9.2 McPhy Solid-state Hydrogen Storage Technology Product Offered
 - 11.9.3 McPhy Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)

- 11.9.4 McPhy Main Business Overview
- 11.9.5 McPhy Latest Developments
- 11.10 Green Fortress
 - 11.10.1 Green Fortress Company Information
 - 11.10.2 Green Fortress Solid-state Hydrogen Storage Technology Product Offered
 - 11.10.3 Green Fortress Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.10.4 Green Fortress Main Business Overview
 - 11.10.5 Green Fortress Latest Developments
- 11.11 General Research Institute for Nonferrous Metals
 - 11.11.1 General Research Institute for Nonferrous Metals Company Information
 - 11.11.2 General Research Institute for Nonferrous Metals Solid-state Hydrogen Storage Technology Product Offered
 - 11.11.3 General Research Institute for Nonferrous Metals Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.11.4 General Research Institute for Nonferrous Metals Main Business Overview
 - 11.11.5 General Research Institute for Nonferrous Metals Latest Developments
- 11.12 Hystorsys
 - 11.12.1 Hystorsys Company Information
 - 11.12.2 Hystorsys Solid-state Hydrogen Storage Technology Product Offered
 - 11.12.3 Hystorsys Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.12.4 Hystorsys Main Business Overview
 - 11.12.5 Hystorsys Latest Developments
- 11.13 Plasma Kinetics
 - 11.13.1 Plasma Kinetics Company Information
 - 11.13.2 Plasma Kinetics Solid-state Hydrogen Storage Technology Product Offered
 - 11.13.3 Plasma Kinetics Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.13.4 Plasma Kinetics Main Business Overview
 - 11.13.5 Plasma Kinetics Latest Developments
- 11.14 Electriq
 - 11.14.1 Electriq Company Information
 - 11.14.2 Electriq Solid-state Hydrogen Storage Technology Product Offered
 - 11.14.3 Electriq Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.14.4 Electriq Main Business Overview
 - 11.14.5 Electriq Latest Developments
- 11.15 AE&M

- 11.15.1 AE&M Company Information
- 11.15.2 AE&M Solid-state Hydrogen Storage Technology Product Offered
- 11.15.3 AE&M Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
- 11.15.4 AE&M Main Business Overview
- 11.15.5 AE&M Latest Developments
- 11.16 JOMI LEMAN
 - 11.16.1 JOMI LEMAN Company Information
 - 11.16.2 JOMI LEMAN Solid-state Hydrogen Storage Technology Product Offered
 - 11.16.3 JOMI LEMAN Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.16.4 JOMI LEMAN Main Business Overview
 - 11.16.5 JOMI LEMAN Latest Developments
- 11.17 Mincatec Energy
 - 11.17.1 Mincatec Energy Company Information
 - 11.17.2 Mincatec Energy Solid-state Hydrogen Storage Technology Product Offered
 - 11.17.3 Mincatec Energy Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.17.4 Mincatec Energy Main Business Overview
 - 11.17.5 Mincatec Energy Latest Developments
- 11.18 Houpu Clean Energy
 - 11.18.1 Houpu Clean Energy Company Information
 - 11.18.2 Houpu Clean Energy Solid-state Hydrogen Storage Technology Product Offered
 - 11.18.3 Houpu Clean Energy Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.18.4 Houpu Clean Energy Main Business Overview
 - 11.18.5 Houpu Clean Energy Latest Developments
- 11.19 Shengyuan Environmental Protection
 - 11.19.1 Shengyuan Environmental Protection Company Information
 - 11.19.2 Shengyuan Environmental Protection Solid-state Hydrogen Storage Technology Product Offered
 - 11.19.3 Shengyuan Environmental Protection Solid-state Hydrogen Storage Technology Revenue, Gross Margin and Market Share (2021-2026)
 - 11.19.4 Shengyuan Environmental Protection Main Business Overview
 - 11.19.5 Shengyuan Environmental Protection Latest Developments
- 11.20 XTC New Energy Materials
 - 11.20.1 XTC New Energy Materials Company Information
 - 11.20.2 XTC New Energy Materials Solid-state Hydrogen Storage Technology Product

Offered

11.20.3 XTC New Energy Materials Solid-state Hydrogen Storage Technology
Revenue, Gross Margin and Market Share (2021-2026)

11.20.4 XTC New Energy Materials Main Business Overview

11.20.5 XTC New Energy Materials Latest Developments

11.21 Hongda Xingye

11.21.1 Hongda Xingye Company Information

11.21.2 Hongda Xingye Solid-state Hydrogen Storage Technology Product Offered

11.21.3 Hongda Xingye Solid-state Hydrogen Storage Technology Revenue, Gross
Margin and Market Share (2021-2026)

11.21.4 Hongda Xingye Main Business Overview

11.21.5 Hongda Xingye Latest Developments

11.22 Sichuan Kexin Mechanical and Electrical Equipment

11.22.1 Sichuan Kexin Mechanical and Electrical Equipment Company Information

11.22.2 Sichuan Kexin Mechanical and Electrical Equipment Solid-state Hydrogen
Storage Technology Product Offered

11.22.3 Sichuan Kexin Mechanical and Electrical Equipment Solid-state Hydrogen
Storage Technology Revenue, Gross Margin and Market Share (2021-2026)

11.22.4 Sichuan Kexin Mechanical and Electrical Equipment Main Business Overview

11.22.5 Sichuan Kexin Mechanical and Electrical Equipment Latest Developments

11.23 Baowu Magnesium Technology

11.23.1 Baowu Magnesium Technology Company Information

11.23.2 Baowu Magnesium Technology Solid-state Hydrogen Storage Technology
Product Offered

11.23.3 Baowu Magnesium Technology Solid-state Hydrogen Storage Technology
Revenue, Gross Margin and Market Share (2021-2026)

11.23.4 Baowu Magnesium Technology Main Business Overview

11.23.5 Baowu Magnesium Technology Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Solid-state Hydrogen Storage Technology Market Size CAGR by Region (2021 VS 2025 VS 2032) & (\$ millions)

Table 2. Solid-state Hydrogen Storage Technology Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Physical Adsorption Hydrogen Storage

Table 4. Major Players of Chemical Hydride Hydrogen Storage

Table 5. Solid-state Hydrogen Storage Technology Market Size CAGR by Type (2021 VS 2025 VS 2032) & (\$ millions)

Table 6. Global Solid-state Hydrogen Storage Technology Market Size by Type (2021-2026) & (\$ millions)

Table 7. Global Solid-state Hydrogen Storage Technology Market Size Market Share by Type (2021-2026)

Table 8. Solid-state Hydrogen Storage Technology Market Size CAGR by Application (2021 VS 2025 VS 2032) & (\$ millions)

Table 9. Global Solid-state Hydrogen Storage Technology Market Size by Application (2021-2026) & (\$ millions)

Table 10. Global Solid-state Hydrogen Storage Technology Market Size Market Share by Application (2021-2026)

Table 11. Global Solid-state Hydrogen Storage Technology Revenue by Player (2021-2026) & (\$ millions)

Table 12. Global Solid-state Hydrogen Storage Technology Revenue Market Share by Player (2021-2026)

Table 13. Solid-state Hydrogen Storage Technology Key Players Head office and Products Offered

Table 14. Solid-state Hydrogen Storage Technology Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 15. New Products and Potential Entrants

Table 16. Mergers & Acquisitions, Expansion

Table 17. Global Solid-state Hydrogen Storage Technology Market Size by Region (2021-2026) & (\$ millions)

Table 18. Global Solid-state Hydrogen Storage Technology Market Size Market Share by Region (2021-2026)

Table 19. Global Solid-state Hydrogen Storage Technology Revenue by Country/Region (2021-2026) & (\$ millions)

Table 20. Global Solid-state Hydrogen Storage Technology Revenue Market Share by

Country/Region (2021-2026)

Table 21. Americas Solid-state Hydrogen Storage Technology Market Size by Country (2021-2026) & (\$ millions)

Table 22. Americas Solid-state Hydrogen Storage Technology Market Size Market Share by Country (2021-2026)

Table 23. Americas Solid-state Hydrogen Storage Technology Market Size by Type (2021-2026) & (\$ millions)

Table 24. Americas Solid-state Hydrogen Storage Technology Market Size Market Share by Type (2021-2026)

Table 25. Americas Solid-state Hydrogen Storage Technology Market Size by Application (2021-2026) & (\$ millions)

Table 26. Americas Solid-state Hydrogen Storage Technology Market Size Market Share by Application (2021-2026)

Table 27. APAC Solid-state Hydrogen Storage Technology Market Size by Region (2021-2026) & (\$ millions)

Table 28. APAC Solid-state Hydrogen Storage Technology Market Size Market Share by Region (2021-2026)

Table 29. APAC Solid-state Hydrogen Storage Technology Market Size by Type (2021-2026) & (\$ millions)

Table 30. APAC Solid-state Hydrogen Storage Technology Market Size by Application (2021-2026) & (\$ millions)

Table 31. Europe Solid-state Hydrogen Storage Technology Market Size by Country (2021-2026) & (\$ millions)

Table 32. Europe Solid-state Hydrogen Storage Technology Market Size Market Share by Country (2021-2026)

Table 33. Europe Solid-state Hydrogen Storage Technology Market Size by Type (2021-2026) & (\$ millions)

Table 34. Europe Solid-state Hydrogen Storage Technology Market Size by Application (2021-2026) & (\$ millions)

Table 35. Middle East & Africa Solid-state Hydrogen Storage Technology Market Size by Region (2021-2026) & (\$ millions)

Table 36. Middle East & Africa Solid-state Hydrogen Storage Technology Market Size by Type (2021-2026) & (\$ millions)

Table 37. Middle East & Africa Solid-state Hydrogen Storage Technology Market Size by Application (2021-2026) & (\$ millions)

Table 38. Key Market Drivers & Growth Opportunities of Solid-state Hydrogen Storage Technology

Table 39. Key Market Challenges & Risks of Solid-state Hydrogen Storage Technology

Table 40. Key Industry Trends of Solid-state Hydrogen Storage Technology

Table 41. Global Solid-state Hydrogen Storage Technology Market Size Forecast by Region (2027-2032) & (\$ millions)

Table 42. Global Solid-state Hydrogen Storage Technology Market Size Market Share Forecast by Region (2027-2032)

Table 43. Global Solid-state Hydrogen Storage Technology Market Size Forecast by Type (2027-2032) & (\$ millions)

Table 44. Global Solid-state Hydrogen Storage Technology Market Size Forecast by Application (2027-2032) & (\$ millions)

Table 45. NPROXX Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 46. NPROXX Solid-state Hydrogen Storage Technology Product Offered

Table 47. NPROXX Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 48. NPROXX Main Business

Table 49. NPROXX Latest Developments

Table 50. H2GO Power Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 51. H2GO Power Solid-state Hydrogen Storage Technology Product Offered

Table 52. H2GO Power Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 53. H2GO Power Main Business

Table 54. H2GO Power Latest Developments

Table 55. Shanghai Hyfun Energy Technology Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 56. Shanghai Hyfun Energy Technology Solid-state Hydrogen Storage Technology Product Offered

Table 57. Shanghai Hyfun Energy Technology Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 58. Shanghai Hyfun Energy Technology Main Business

Table 59. Shanghai Hyfun Energy Technology Latest Developments

Table 60. GKN Hydrogen Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 61. GKN Hydrogen Solid-state Hydrogen Storage Technology Product Offered

Table 62. GKN Hydrogen Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 63. GKN Hydrogen Main Business

Table 64. GKN Hydrogen Latest Developments

Table 65. Whole Win New Energy Technology Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 66. Whole Win New Energy Technology Solid-state Hydrogen Storage Technology Product Offered
Table 67. Whole Win New Energy Technology Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 68. Whole Win New Energy Technology Main Business
Table 69. Whole Win New Energy Technology Latest Developments
Table 70. GRZ Technologies Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors
Table 71. GRZ Technologies Solid-state Hydrogen Storage Technology Product Offered
Table 72. GRZ Technologies Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 73. GRZ Technologies Main Business
Table 74. GRZ Technologies Latest Developments
Table 75. Lavo Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors
Table 76. Lavo Solid-state Hydrogen Storage Technology Product Offered
Table 77. Lavo Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 78. Lavo Main Business
Table 79. Lavo Latest Developments
Table 80. HySA Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors
Table 81. HySA Solid-state Hydrogen Storage Technology Product Offered
Table 82. HySA Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 83. HySA Main Business
Table 84. HySA Latest Developments
Table 85. McPhy Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors
Table 86. McPhy Solid-state Hydrogen Storage Technology Product Offered
Table 87. McPhy Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)
Table 88. McPhy Main Business
Table 89. McPhy Latest Developments
Table 90. Green Fortress Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors
Table 91. Green Fortress Solid-state Hydrogen Storage Technology Product Offered
Table 92. Green Fortress Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 93. Green Fortress Main Business

Table 94. Green Fortress Latest Developments

Table 95. General Research Institute for Nonferrous Metals Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 96. General Research Institute for Nonferrous Metals Solid-state Hydrogen Storage Technology Product Offered

Table 97. General Research Institute for Nonferrous Metals Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 98. General Research Institute for Nonferrous Metals Main Business

Table 99. General Research Institute for Nonferrous Metals Latest Developments

Table 100. Hystorsys Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 101. Hystorsys Solid-state Hydrogen Storage Technology Product Offered

Table 102. Hystorsys Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 103. Hystorsys Main Business

Table 104. Hystorsys Latest Developments

Table 105. Plasma Kinetics Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 106. Plasma Kinetics Solid-state Hydrogen Storage Technology Product Offered

Table 107. Plasma Kinetics Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 108. Plasma Kinetics Main Business

Table 109. Plasma Kinetics Latest Developments

Table 110. Electriq Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 111. Electriq Solid-state Hydrogen Storage Technology Product Offered

Table 112. Electriq Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 113. Electriq Main Business

Table 114. Electriq Latest Developments

Table 115. AE&M Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 116. AE&M Solid-state Hydrogen Storage Technology Product Offered

Table 117. AE&M Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 118. AE&M Main Business

Table 119. AE&M Latest Developments

Table 120. JOMI LEMAN Details, Company Type, Solid-state Hydrogen Storage

Technology Area Served and Its Competitors

Table 121. JOMI LEMAN Solid-state Hydrogen Storage Technology Product Offered

Table 122. JOMI LEMAN Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 123. JOMI LEMAN Main Business

Table 124. JOMI LEMAN Latest Developments

Table 125. Mincatec Energy Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 126. Mincatec Energy Solid-state Hydrogen Storage Technology Product Offered

Table 127. Mincatec Energy Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 128. Mincatec Energy Main Business

Table 129. Mincatec Energy Latest Developments

Table 130. Houpu Clean Energy Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 131. Houpu Clean Energy Solid-state Hydrogen Storage Technology Product Offered

Table 132. Houpu Clean Energy Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 133. Houpu Clean Energy Main Business

Table 134. Houpu Clean Energy Latest Developments

Table 135. Shengyuan Environmental Protection Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 136. Shengyuan Environmental Protection Solid-state Hydrogen Storage Technology Product Offered

Table 137. Shengyuan Environmental Protection Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 138. Shengyuan Environmental Protection Main Business

Table 139. Shengyuan Environmental Protection Latest Developments

Table 140. XTC New Energy Materials Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 141. XTC New Energy Materials Solid-state Hydrogen Storage Technology Product Offered

Table 142. XTC New Energy Materials Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 143. XTC New Energy Materials Main Business

Table 144. XTC New Energy Materials Latest Developments

Table 145. Hongda Xingye Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 146. Hongda Xingye Solid-state Hydrogen Storage Technology Product Offered

Table 147. Hongda Xingye Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 148. Hongda Xingye Main Business

Table 149. Hongda Xingye Latest Developments

Table 150. Sichuan Kexin Mechanical and Electrical Equipment Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 151. Sichuan Kexin Mechanical and Electrical Equipment Solid-state Hydrogen Storage Technology Product Offered

Table 152. Sichuan Kexin Mechanical and Electrical Equipment Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 153. Sichuan Kexin Mechanical and Electrical Equipment Main Business

Table 154. Sichuan Kexin Mechanical and Electrical Equipment Latest Developments

Table 155. Baowu Magnesium Technology Details, Company Type, Solid-state Hydrogen Storage Technology Area Served and Its Competitors

Table 156. Baowu Magnesium Technology Solid-state Hydrogen Storage Technology Product Offered

Table 157. Baowu Magnesium Technology Solid-state Hydrogen Storage Technology Revenue (\$ million), Gross Margin and Market Share (2021-2026)

Table 158. Baowu Magnesium Technology Main Business

Table 159. Baowu Magnesium Technology Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Solid-state Hydrogen Storage Technology Report Years Considered
- Figure 2. Research Objectives
- Figure 3. Research Methodology
- Figure 4. Research Process and Data Source
- Figure 5. Global Solid-state Hydrogen Storage Technology Market Size Growth Rate (2021-2032) (\$ millions)
- Figure 6. Solid-state Hydrogen Storage Technology Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 7. Solid-state Hydrogen Storage Technology Sales Market Share by Country/Region (2025)
- Figure 8. Solid-state Hydrogen Storage Technology Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 9. Global Solid-state Hydrogen Storage Technology Market Size Market Share by Type in 2025
- Figure 10. Solid-state Hydrogen Storage Technology in Transportation
- Figure 11. Global Solid-state Hydrogen Storage Technology Market: Transportation (2021-2026) & (\$ millions)
- Figure 12. Solid-state Hydrogen Storage Technology in Industrial
- Figure 13. Global Solid-state Hydrogen Storage Technology Market: Industrial (2021-2026) & (\$ millions)
- Figure 14. Solid-state Hydrogen Storage Technology in Power Generation and Grid Balancing
- Figure 15. Global Solid-state Hydrogen Storage Technology Market: Power Generation and Grid Balancing (2021-2026) & (\$ millions)
- Figure 16. Solid-state Hydrogen Storage Technology in Others
- Figure 17. Global Solid-state Hydrogen Storage Technology Market: Others (2021-2026) & (\$ millions)
- Figure 18. Global Solid-state Hydrogen Storage Technology Market Size Market Share by Application in 2025
- Figure 19. Global Solid-state Hydrogen Storage Technology Revenue Market Share by Player in 2025
- Figure 20. Global Solid-state Hydrogen Storage Technology Market Size Market Share by Region (2021-2026)
- Figure 21. Americas Solid-state Hydrogen Storage Technology Market Size 2021-2026 (\$ millions)

Figure 22. APAC Solid-state Hydrogen Storage Technology Market Size 2021-2026 (\$ millions)

Figure 23. Europe Solid-state Hydrogen Storage Technology Market Size 2021-2026 (\$ millions)

Figure 24. Middle East & Africa Solid-state Hydrogen Storage Technology Market Size 2021-2026 (\$ millions)

Figure 25. Americas Solid-state Hydrogen Storage Technology Value Market Share by Country in 2025

Figure 26. United States Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 27. Canada Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 28. Mexico Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 29. Brazil Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 30. APAC Solid-state Hydrogen Storage Technology Market Size Market Share by Region in 2025

Figure 31. APAC Solid-state Hydrogen Storage Technology Market Size Market Share by Type (2021-2026)

Figure 32. APAC Solid-state Hydrogen Storage Technology Market Size Market Share by Application (2021-2026)

Figure 33. China Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 34. Japan Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 35. South Korea Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 36. Southeast Asia Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 37. India Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 38. Australia Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 39. Europe Solid-state Hydrogen Storage Technology Market Size Market Share by Country in 2025

Figure 40. Europe Solid-state Hydrogen Storage Technology Market Size Market Share by Type (2021-2026)

Figure 41. Europe Solid-state Hydrogen Storage Technology Market Size Market Share

by Application (2021-2026)

Figure 42. Germany Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 43. France Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 44. UK Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 45. Italy Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 46. Russia Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 47. Middle East & Africa Solid-state Hydrogen Storage Technology Market Size Market Share by Region (2021-2026)

Figure 48. Middle East & Africa Solid-state Hydrogen Storage Technology Market Size Market Share by Type (2021-2026)

Figure 49. Middle East & Africa Solid-state Hydrogen Storage Technology Market Size Market Share by Application (2021-2026)

Figure 50. Egypt Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 51. South Africa Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 52. Israel Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 53. Turkey Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 54. GCC Countries Solid-state Hydrogen Storage Technology Market Size Growth 2021-2026 (\$ millions)

Figure 55. Americas Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 56. APAC Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 57. Europe Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 58. Middle East & Africa Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 59. United States Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 60. Canada Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 61. Mexico Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 62. Brazil Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 63. China Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 64. Japan Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 65. Korea Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 66. Southeast Asia Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 67. India Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 68. Australia Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 69. Germany Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 70. France Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 71. UK Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 72. Italy Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 73. Russia Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 74. Egypt Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 75. South Africa Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 76. Israel Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 77. Turkey Solid-state Hydrogen Storage Technology Market Size 2027-2032 (\$ millions)

Figure 78. Global Solid-state Hydrogen Storage Technology Market Size Market Share Forecast by Type (2027-2032)

Figure 79. Global Solid-state Hydrogen Storage Technology Market Size Market Share Forecast by Application (2027-2032)

Figure 80. GCC Countries Solid-state Hydrogen Storage Technology Market Size

2027-2032 (\$ millions)

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