

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

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Abstracts

The global Solid-state Hydrogen Storage 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 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 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 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 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 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 Industry Forecast' looks at past sales and reviews total world Solid-state Hydrogen Storage sales in 2025, providing a comprehensive analysis by region and market sector of projected Solid-state Hydrogen Storage sales for 2026 through 2032. With Solid-state Hydrogen Storage 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 industry.

This Insight Report provides a comprehensive analysis of the global Solid-state Hydrogen Storage 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 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 market.

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

This report presents a comprehensive overview, market shares, and growth opportunities of Solid-state Hydrogen Storage 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

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