

Global Solid-state Hydrogen Storage Market 2025 by Company, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our latest research, the global Solid-state Hydrogen Storage market size will reach USD 959 million in 2031, growing at a CAGR of 30.5% over the analysis period.

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.

This report is a detailed and comprehensive analysis for global Solid-state Hydrogen Storage market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Solid-state Hydrogen Storage market size and forecasts, in consumption value

(\$ Million), 2020-2031

Global Solid-state Hydrogen Storage market size and forecasts by region and country, in consumption value (\$ Million), 2020-2031

Global Solid-state Hydrogen Storage market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2020-2031

Global Solid-state Hydrogen Storage market shares of main players, in revenue (\$ Million), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Solid-state Hydrogen Storage

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Solid-state Hydrogen Storage market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include NPROXX, H2GO Power, Shanghai Hyfun Energy Technology, GKN Hydrogen, Whole Win New Energy Technology, GRZ Technologies, Lavo, HySA, McPhy, Green Fortress, etc.

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

Market segmentation

Solid-state Hydrogen Storage market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Physical Adsorption Hydrogen Storage

Chemical Hydride Hydrogen Storage

Market segment by Application

Transportation

Industrial

Power Generation and Grid Balancing

Others

Market segment by players, this report covers

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

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

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

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

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Solid-state Hydrogen Storage product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Solid-state Hydrogen Storage, with revenue, gross margin, and global market share of Solid-state Hydrogen Storage from 2020 to 2025.

Chapter 3, the Solid-state Hydrogen Storage competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2020 to 2031

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2020 to 2025. and Solid-state Hydrogen Storage market forecast, by regions, by Type and by Application, with consumption value, from 2026 to 2031.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Solid-state Hydrogen Storage.

Chapter 13, to describe Solid-state Hydrogen Storage research findings and conclusion.

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