

Global Nuclear Hydrogen Production Market Growth (Status and Outlook) 2026-2032

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Abstracts

The global Nuclear Hydrogen Production market size is predicted to grow from US\$ 892 million in 2025 to US\$ 2924 million in 2032; it is expected to grow at a CAGR of 18.7% from 2026 to 2032.

Nuclear hydrogen production refers to the technology of coupling a nuclear reactor with a hydrogen production plant employing advanced hydrogen production processes to achieve large-scale hydrogen production. This technology uses abundant water as a raw material, utilizing the thermal and/or electrical energy provided by nuclear power to decompose water and produce hydrogen. The entire process does not produce greenhouse gases and is characterized by its cleanliness and high efficiency. Its main technical routes include using nuclear power to electrolyze water to produce hydrogen, and using the high-temperature process heat generated by the nuclear reactor to drive thermochemical cycles or high-temperature steam electrolysis, thereby significantly improving hydrogen production efficiency, with a theoretical efficiency exceeding 50%. Nuclear hydrogen production is considered a key bridge connecting nuclear energy and hydrogen energy, providing a large-scale, stable low-carbon hydrogen source for industrial sectors where emissions are difficult to reduce, and is an important path to promote the development of the hydrogen economy and the low-carbon transformation of the energy system.

The nuclear hydrogen production industry chain is a complete chain covering upstream, midstream, and downstream. The upstream mainly includes the construction and operation of nuclear reactors, as well as the research and development and manufacturing of key hydrogen production equipment. The midstream is the core link, involving the system integration and coupling of nuclear energy and hydrogen production processes. This includes transmitting electricity or heat from nuclear power

plants to hydrogen production plants for large-scale hydrogen production, purification, and short-term storage. This stage demands extremely high levels of technological integration and safety control. The downstream focuses on hydrogen storage, transportation, and diversified end-use applications, including providing clean feedstocks and reducing agents for industries such as chemicals and metallurgy, providing fuel for fuel cell vehicles, and even achieving cross-sectoral energy distribution through injection into existing natural gas pipelines. Ultimately, it serves the deep decarbonization goals of multiple sectors, including transportation, industry, and power generation.

Nuclear hydrogen production has broad development prospects and is considered one of the key supporting technologies for achieving global carbon neutrality. With the continuous maturation and commercialization of fourth-generation nuclear energy systems, and the ongoing breakthroughs in hydrogen production processes such as high-temperature electrolysis and thermochemical cycles, the efficiency and economics of nuclear hydrogen production are expected to improve significantly. Organizations such as the International Atomic Energy Agency are actively promoting the development of its commercial deployment roadmap. In the future, the coupling of nuclear energy, especially small modular reactors, with hydrogen production will provide a large-scale, low-cost, and stable hydrogen source for industries that are "difficult to reduce emissions," such as steel, chemicals, and heavy transportation. Large-scale commercial applications are expected to gradually materialize by the 2030s. Major nuclear power countries such as China, the United States, Japan, and South Korea have already launched related engineering and demonstration projects. Policy support and substantial financial investment from these countries will inject strong momentum into the industry's development. Despite current challenges such as technology integration, cost competition, and safety regulations, nuclear hydrogen production will undoubtedly play an increasingly important role in the future clean energy system, accelerating the green and low-carbon transformation of the global energy system.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Nuclear Hydrogen Production 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 Nuclear Hydrogen Production portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nuclear Hydrogen Production market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nuclear Hydrogen Production and breaks down the forecast by Forms of Nuclear Energy Utilized, 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 Nuclear Hydrogen Production.

This report presents a comprehensive overview, market shares, and growth opportunities of Nuclear Hydrogen Production market by product type, application, key players and key regions and countries.

Market Segmentation

Segmentation by Forms of Nuclear Energy Utilized:

Electrical Energy

Thermal Energy

Combined heat and power (CHP)

Segmentation by Hydrogen Production Technology:

Nuclear-Powered Alkaline Water Electrolysis for Hydrogen Production

Nuclear-Powered PEM Water Electrolysis for Hydrogen Production

Nuclear-Powered Solid Oxide High-Temperature Electrolysis for Hydrogen Production

Others

Segmentation by Hydrogen Production Temperature:

Low-Temperature Nuclear Hydrogen Production

High-Temperature Nuclear Hydrogen Production

Ultra-High-Temperature Nuclear Hydrogen Production

Segmentation by Application:

Industrial

Transportation

Energy

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.

KHNP

Rolls-Royce

ULC Energy

Topsoe Corporation

Fortum

Constellation Energy

Xcel Energy

China National Nuclear Corporation

Westinghouse Electric Company

EDF

JAEA

Doosan Enerbility

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