

Global Nuclear Hydrogen Production Market Research Report 2026(Status and Outlook)

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Abstracts

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.

The global Nuclear Hydrogen Production market size was estimated at USD 1802.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 45.00% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Nuclear Hydrogen Production 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 Nuclear

Hydrogen Production 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 Nuclear Hydrogen Production market.

Global Nuclear Hydrogen Production 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

KHNP

Nel

Rolls-Royce

ULC Energy

Topsoe Corporation

Fortum

First Hydrogen

Newcleo

MAIRE Group

FS Energy

China National Nuclear Corporation

China Aerospace Science and Technology Corporation

XJ Electric

Hailu Heavy Industry

Market Segmentation (by Type)

Electrical Energy
Thermal Energy
Combined heat and power (CHP)

Market Segmentation (by Application)

Industry
Transportation
Energy
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 Nuclear Hydrogen Production Market
Overview of the regional outlook of the Nuclear Hydrogen Production Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

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 Nuclear Hydrogen Production 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 Nuclear Hydrogen Production, 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

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Nuclear Hydrogen Production

1.2 Key Market Segments

1.2.1 Nuclear Hydrogen Production Segment by Type

1.2.2 Nuclear Hydrogen Production 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 NUCLEAR HYDROGEN PRODUCTION MARKET OVERVIEW

2.1 Global Market Overview

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 NUCLEAR HYDROGEN PRODUCTION MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Nuclear Hydrogen Production Product Life Cycle

3.3 Global Nuclear Hydrogen Production Revenue Market Share by Company
(2020-2025)

3.4 Nuclear Hydrogen Production Market Share by Company Type (Tier 1, Tier 2, and
Tier 3)

3.5 Headquarters, Areas Served, and Product Types of Major Players

3.6 Nuclear Hydrogen Production Market Competitive Situation and Trends

3.6.1 Nuclear Hydrogen Production Market Concentration Rate

3.6.2 Global 5 and 10 Largest Nuclear Hydrogen Production Players Market Share by
Revenue

3.6.3 Mergers & Acquisitions, Expansion

4 NUCLEAR HYDROGEN PRODUCTION VALUE CHAIN ANALYSIS

4.1 Nuclear Hydrogen Production Value Chain Analysis

- 4.2 Midstream Market Analysis
- 4.3 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF NUCLEAR HYDROGEN PRODUCTION 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 Nuclear Hydrogen Production Market Porter's Five Forces Analysis

6 NUCLEAR HYDROGEN PRODUCTION MARKET SEGMENTATION BY TYPE

- 6.1 Evaluation Matrix of Segment Market Development Potential (Type)
- 6.2 Global Nuclear Hydrogen Production Market by Type (2020-2025)
- 6.3 Global Nuclear Hydrogen Production Market Size Growth Rate by Type (2021-2025)

7 NUCLEAR HYDROGEN PRODUCTION MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Nuclear Hydrogen Production Market Size (M USD) by Application (2020-2025)
- 7.3 Global Nuclear Hydrogen Production Market Size Growth Rate by Application (2021-2025)

8 NUCLEAR HYDROGEN PRODUCTION MARKET SEGMENTATION BY REGION

- 8.1 Global Nuclear Hydrogen Production Market Size by Region

- 8.1.1 Global Nuclear Hydrogen Production Market Size by Region
- 8.1.2 Global Nuclear Hydrogen Production Market Size Market Share by Region
- 8.2 North America
 - 8.2.1 North America Nuclear Hydrogen Production Market Size by Country
 - 8.2.2 U.S.
 - 8.2.3 Canada
 - 8.2.4 Mexico
- 8.3 Europe
 - 8.3.1 Europe Nuclear Hydrogen Production Market Size by Country
 - 8.3.2 Germany
 - 8.3.3 France
 - 8.3.4 U.K.
 - 8.3.5 Italy
 - 8.3.6 Spain
- 8.4 Asia Pacific
 - 8.4.1 Asia Pacific Nuclear Hydrogen Production Market Size by Region
 - 8.4.2 China
 - 8.4.3 Japan
 - 8.4.4 South Korea
 - 8.4.5 India
 - 8.4.6 Southeast Asia
- 8.5 South America
 - 8.5.1 South America Nuclear Hydrogen Production Market Size by Country
 - 8.5.2 Brazil
 - 8.5.3 Argentina
 - 8.5.4 Columbia
- 8.6 Middle East and Africa
 - 8.6.1 Middle East and Africa Nuclear Hydrogen Production Market Size by Region
 - 8.6.2 Saudi Arabia
 - 8.6.3 UAE
 - 8.6.4 Egypt
 - 8.6.5 Nigeria
 - 8.6.6 South Africa

9 KEY COMPANIES PROFILE

- 9.1 KHNP
 - 9.1.1 KHNP Basic Information
 - 9.1.2 KHNP Nuclear Hydrogen Production Product Overview

- 9.1.3 KHNP Nuclear Hydrogen Production Product Market Performance
- 9.1.4 KHNP SWOT Analysis
- 9.1.5 KHNP Business Overview
- 9.1.6 KHNP Recent Developments
- 9.2 Nel
 - 9.2.1 Nel Basic Information
 - 9.2.2 Nel Nuclear Hydrogen Production Product Overview
 - 9.2.3 Nel Nuclear Hydrogen Production Product Market Performance
 - 9.2.4 Nel SWOT Analysis
 - 9.2.5 Nel Business Overview
 - 9.2.6 Nel Recent Developments
- 9.3 Rolls-Royce
 - 9.3.1 Rolls-Royce Basic Information
 - 9.3.2 Rolls-Royce Nuclear Hydrogen Production Product Overview
 - 9.3.3 Rolls-Royce Nuclear Hydrogen Production Product Market Performance
 - 9.3.4 Rolls-Royce SWOT Analysis
 - 9.3.5 Rolls-Royce Business Overview
 - 9.3.6 Rolls-Royce Recent Developments
- 9.4 ULC Energy
 - 9.4.1 ULC Energy Basic Information
 - 9.4.2 ULC Energy Nuclear Hydrogen Production Product Overview
 - 9.4.3 ULC Energy Nuclear Hydrogen Production Product Market Performance
 - 9.4.4 ULC Energy Business Overview
 - 9.4.5 ULC Energy Recent Developments
- 9.5 Topsoe Corporation
 - 9.5.1 Topsoe Corporation Basic Information
 - 9.5.2 Topsoe Corporation Nuclear Hydrogen Production Product Overview
 - 9.5.3 Topsoe Corporation Nuclear Hydrogen Production Product Market Performance
 - 9.5.4 Topsoe Corporation Business Overview
 - 9.5.5 Topsoe Corporation Recent Developments
- 9.6 Fortum
 - 9.6.1 Fortum Basic Information
 - 9.6.2 Fortum Nuclear Hydrogen Production Product Overview
 - 9.6.3 Fortum Nuclear Hydrogen Production Product Market Performance
 - 9.6.4 Fortum Business Overview
 - 9.6.5 Fortum Recent Developments
- 9.7 First Hydrogen
 - 9.7.1 First Hydrogen Basic Information
 - 9.7.2 First Hydrogen Nuclear Hydrogen Production Product Overview

- 9.7.3 First Hydrogen Nuclear Hydrogen Production Product Market Performance
- 9.7.4 First Hydrogen Business Overview
- 9.7.5 First Hydrogen Recent Developments
- 9.8 Newcleo
 - 9.8.1 Newcleo Basic Information
 - 9.8.2 Newcleo Nuclear Hydrogen Production Product Overview
 - 9.8.3 Newcleo Nuclear Hydrogen Production Product Market Performance
 - 9.8.4 Newcleo Business Overview
 - 9.8.5 Newcleo Recent Developments
- 9.9 MAIRE Group
 - 9.9.1 MAIRE Group Basic Information
 - 9.9.2 MAIRE Group Nuclear Hydrogen Production Product Overview
 - 9.9.3 MAIRE Group Nuclear Hydrogen Production Product Market Performance
 - 9.9.4 MAIRE Group Business Overview
 - 9.9.5 MAIRE Group Recent Developments
- 9.10 FS Energy
 - 9.10.1 FS Energy Basic Information
 - 9.10.2 FS Energy Nuclear Hydrogen Production Product Overview
 - 9.10.3 FS Energy Nuclear Hydrogen Production Product Market Performance
 - 9.10.4 FS Energy Business Overview
 - 9.10.5 FS Energy Recent Developments
- 9.11 China National Nuclear Corporation
 - 9.11.1 China National Nuclear Corporation Basic Information
 - 9.11.2 China National Nuclear Corporation Nuclear Hydrogen Production Product Overview
 - 9.11.3 China National Nuclear Corporation Nuclear Hydrogen Production Product Market Performance
 - 9.11.4 China National Nuclear Corporation Business Overview
 - 9.11.5 China National Nuclear Corporation Recent Developments
- 9.12 China Aerospace Science and Technology Corporation
 - 9.12.1 China Aerospace Science and Technology Corporation Basic Information
 - 9.12.2 China Aerospace Science and Technology Corporation Nuclear Hydrogen Production Product Overview
 - 9.12.3 China Aerospace Science and Technology Corporation Nuclear Hydrogen Production Product Market Performance
 - 9.12.4 China Aerospace Science and Technology Corporation Business Overview
 - 9.12.5 China Aerospace Science and Technology Corporation Recent Developments
- 9.13 XJ Electric
 - 9.13.1 XJ Electric Basic Information

- 9.13.2 XJ Electric Nuclear Hydrogen Production Product Overview
- 9.13.3 XJ Electric Nuclear Hydrogen Production Product Market Performance
- 9.13.4 XJ Electric Business Overview
- 9.13.5 XJ Electric Recent Developments
- 9.14 Hailu Heavy Industry
 - 9.14.1 Hailu Heavy Industry Basic Information
 - 9.14.2 Hailu Heavy Industry Nuclear Hydrogen Production Product Overview
 - 9.14.3 Hailu Heavy Industry Nuclear Hydrogen Production Product Market Performance
 - 9.14.4 Hailu Heavy Industry Business Overview
 - 9.14.5 Hailu Heavy Industry Recent Developments

10 NUCLEAR HYDROGEN PRODUCTION MARKET FORECAST BY REGION

- 10.1 Global Nuclear Hydrogen Production Market Size Forecast
- 10.2 Global Nuclear Hydrogen Production Market Forecast by Region
 - 10.2.1 North America Market Size Forecast by Country
 - 10.2.2 Europe Nuclear Hydrogen Production Market Size Forecast by Country
 - 10.2.3 Asia Pacific Nuclear Hydrogen Production Market Size Forecast by Region
 - 10.2.4 South America Nuclear Hydrogen Production Market Size Forecast by Country
 - 10.2.5 Middle East and Africa Forecasted Sales of Nuclear Hydrogen Production by Country

11 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

- 11.1 Global Nuclear Hydrogen Production Market Forecast by Type (2026-2035)
 - 11.1.1 Global Nuclear Hydrogen Production Market Size Forecast by Type (2026-2035)
- 11.2 Global Nuclear Hydrogen Production Market Forecast by Application (2026-2035)
 - 11.2.1 Global Nuclear Hydrogen Production Market Size (M USD) Forecast by Application (2026-2035)

12 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Global Nuclear Hydrogen Production Market Size by Type (M USD)

Table 4. Global Nuclear Hydrogen Production Market Size by Application

Table 5. Nuclear Hydrogen Production Market Size Comparison by Region (M USD)

Table 6. Global Nuclear Hydrogen Production Revenue (M USD) by Company
(2020-2025)

Table 7. Global Nuclear Hydrogen Production Revenue Share by Company
(2020-2025)

Table 8. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Nuclear Hydrogen Production as of 2025)

Table 9. Headquarters, Areas Served, and Product Types of Major Players

Table 10. Product Type of Major Players

Table 11. Global Nuclear Hydrogen Production Company Market Concentration Ratio (CR5 and HHI)

Table 12. Mergers & Acquisitions, Expansion Plans

Table 13. Midstream Market Analysis

Table 14. Downstream Customer Analysis

Table 15. Key Development Trends

Table 16. Driving Factors

Table 17. Nuclear Hydrogen Production Market Challenges

Table 18. Goldman Sachs' forecast real GDP growth rate for 2024-2026

Table 19. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027

Table 20. World Bank ' Forecast Real GDP Growth Rate For 2024-2026

Table 21. Global Nuclear Hydrogen Production Market Size by Type (M USD)

Table 22. Global Nuclear Hydrogen Production Market Size (M USD) by Type
(2020-2025)

Table 23. Global Nuclear Hydrogen Production Market Share by Type (2020-2025)

Table 24. Global Nuclear Hydrogen Production Market Size Growth Rate by Type
(2021-2025)

Table 25. Global Nuclear Hydrogen Production Market Size by Application

Table 26. Global Nuclear Hydrogen Production Market Size by Application (2020-2025)
& (M USD)

Table 27. Global Nuclear Hydrogen Production Market Share by Application
(2020-2025)

Table 28. Global Nuclear Hydrogen Production Market Size Growth Rate by Application (2021-2025)

Table 29. Global Nuclear Hydrogen Production Market Size by Region (2020-2025) & (M USD)

Table 30. Global Nuclear Hydrogen Production Market Size Market Share by Region (2020-2025)

Table 31. North America Nuclear Hydrogen Production Market Size by Country (2020-2025) & (M USD)

Table 32. Europe Nuclear Hydrogen Production Market Size by Country (2020-2025) & (M USD)

Table 33. Asia Pacific Nuclear Hydrogen Production Market Size by Region (2020-2025) & (M USD)

Table 34. South America Nuclear Hydrogen Production Market Size by Country (2020-2025) & (M USD)

Table 35. Middle East and Africa Nuclear Hydrogen Production Market Size by Region (2020-2025) & (M USD)

Table 36. KHNP Basic Information

Table 37. KHNP Nuclear Hydrogen Production Product Overview

Table 38. KHNP Nuclear Hydrogen Production Revenue (M USD) and Gross Margin (2020-2025)

Table 39. KHNP SWOT Analysis

Table 40. KHNP Business Overview

Table 41. KHNP Recent Developments

Table 42. Nel Basic Information

Table 43. Nel Nuclear Hydrogen Production Product Overview

Table 44. Nel Nuclear Hydrogen Production Revenue (M USD) and Gross Margin (2020-2025)

Table 45. Nel SWOT Analysis

Table 46. Nel Business Overview

Table 47. Nel Recent Developments

Table 48. Rolls-Royce Basic Information

Table 49. Rolls-Royce Nuclear Hydrogen Production Product Overview

Table 50. Rolls-Royce Nuclear Hydrogen Production Revenue (M USD) and Gross Margin (2020-2025)

Table 51. Rolls-Royce SWOT Analysis

Table 52. Rolls-Royce Business Overview

Table 53. Rolls-Royce Recent Developments

Table 54. ULC Energy Basic Information

Table 55. ULC Energy Nuclear Hydrogen Production Product Overview

Table 56. ULC Energy Nuclear Hydrogen Production Revenue (M USD) and Gross Margin (2020-2025)

Table 57. ULC Energy Business Overview

Table 58. ULC Energy Recent Developments

Table 59. Topsoe Corporation Basic Information

Table 60. Topsoe Corporation Nuclear Hydrogen Production Product Overview

Table 61. Topsoe Corporation Nuclear Hydrogen Production Revenue (M USD) and Gross Margin (2020-2025)

Table 62. Topsoe Corporation Business Overview

Table 63. Topsoe Corporation Recent Developments

Table 64. Fortum Basic Information

Table 65. Fortum Nuclear Hydrogen Production Product Overview

Table 66. Fortum Nuclear Hydrogen Production Revenue (M USD) and Gross Margin (2020-2025)

Table 67. Fortum Business Overview

Table 68. Fortum Recent Developments

Table 69. First Hydrogen Basic Information

Table 70. First Hydrogen Nuclear Hydrogen Production Product Overview

Table 71. First Hydrogen Nuclear Hydrogen Production Revenue (M USD) and Gross Margin (2020-2025)

Table 72. First Hydrogen Business Overview

Table 73. First Hydrogen Recent Developments

Table 74. Newcleo Basic Information

Table 75. Newcleo Nuclear Hydrogen Production Product Overview

Table 76. Newcleo Nuclear Hydrogen Production Revenue (M USD) and Gross Margin (2020-2025)

Table 77. Newcleo Business Overview

Table 78. Newcleo Recent Developments

Table 79. MAIRE Group Basic Information

Table 80. MAIRE Group Nuclear Hydrogen Production Product Overview

Table 81. MAIRE Group Nuclear Hydrogen Production Revenue (M USD) and Gross Margin (2020-2025)

Table 82. MAIRE Group Business Overview

Table 83. MAIRE Group Recent Developments

Table 84. FS Energy Basic Information

Table 85. FS Energy Nuclear Hydrogen Production Product Overview

Table 86. FS Energy Nuclear Hydrogen Production Revenue (M USD) and Gross Margin (2020-2025)

Table 87. FS Energy Business Overview

- Table 88. FS Energy Recent Developments
- Table 89. China National Nuclear Corporation Basic Information
- Table 90. China National Nuclear Corporation Nuclear Hydrogen Production Product Overview
- Table 91. China National Nuclear Corporation Nuclear Hydrogen Production Revenue (M USD) and Gross Margin (2020-2025)
- Table 92. China National Nuclear Corporation Business Overview
- Table 93. China National Nuclear Corporation Recent Developments
- Table 94. China Aerospace Science and Technology Corporation Basic Information
- Table 95. China Aerospace Science and Technology Corporation Nuclear Hydrogen Production Product Overview
- Table 96. China Aerospace Science and Technology Corporation Nuclear Hydrogen Production Revenue (M USD) and Gross Margin (2020-2025)
- Table 97. China Aerospace Science and Technology Corporation Business Overview
- Table 98. China Aerospace Science and Technology Corporation Recent Developments
- Table 99. XJ Electric Basic Information
- Table 100. XJ Electric Nuclear Hydrogen Production Product Overview
- Table 101. XJ Electric Nuclear Hydrogen Production Revenue (M USD) and Gross Margin (2020-2025)
- Table 102. XJ Electric Business Overview
- Table 103. XJ Electric Recent Developments
- Table 104. Hailu Heavy Industry Basic Information
- Table 105. Hailu Heavy Industry Nuclear Hydrogen Production Product Overview
- Table 106. Hailu Heavy Industry Nuclear Hydrogen Production Revenue (M USD) and Gross Margin (2020-2025)
- Table 107. Hailu Heavy Industry Business Overview
- Table 108. Hailu Heavy Industry Recent Developments
- Table 109. Global Nuclear Hydrogen Production Market Size Forecast by Region (2026-2035) & (M USD)
- Table 110. North America Nuclear Hydrogen Production Market Size Forecast by Country (2026-2035) & (M USD)
- Table 111. Europe Nuclear Hydrogen Production Market Size Forecast by Country (2026-2035) & (M USD)
- Table 112. Asia Pacific Nuclear Hydrogen Production Market Size Forecast by Region (2026-2035) & (M USD)
- Table 113. South America Nuclear Hydrogen Production Market Size Forecast by Country (2026-2035) & (M USD)
- Table 114. Middle East and Africa Nuclear Hydrogen Production Market Size Forecast by Country (2026-2035) & (M USD)

Table 115. Global Nuclear Hydrogen Production Market Size Forecast by Type
(2026-2035) & (M USD)

Table 116. Global Nuclear Hydrogen Production Market Size Forecast by Application
(2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Industry Chain of Nuclear Hydrogen Production
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Nuclear Hydrogen Production Market Size (M USD), 2025-2035
- Figure 5. Global Nuclear Hydrogen Production Market Size (M USD) (2020-2035)
- Figure 6. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 8. Evaluation Matrix of Regional Market Development Potential
- Figure 9. Nuclear Hydrogen Production Market Size by Country (M USD)
- Figure 10. Company Assessment Quadrant
- Figure 11. Global Nuclear Hydrogen Production Product Life Cycle
- Figure 12. Global Nuclear Hydrogen Production Revenue Share by Company in 2025
- Figure 13. Nuclear Hydrogen Production Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 14. The Global 5 and 10 Largest Players: Market Share by Nuclear Hydrogen Production Revenue in 2025
- Figure 15. Value Chain Map of Nuclear Hydrogen Production
- Figure 16. Global Nuclear Hydrogen Production Market PEST Analysis
- Figure 17. Global Nuclear Hydrogen Production Market Porter's Five Forces Analysis
- Figure 18. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 19. Global Nuclear Hydrogen Production Market Share by Type
- Figure 20. Market Share of Nuclear Hydrogen Production by Type (2020-2025)
- Figure 21. Global Nuclear Hydrogen Production Market Size Growth Rate by Type (2021-2025)
- Figure 22. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 23. Global Nuclear Hydrogen Production Market Share by Application
- Figure 24. Global Nuclear Hydrogen Production Market Share by Application (2020-2025)
- Figure 25. Global Nuclear Hydrogen Production Market Share by Application in 2024
- Figure 26. Global Nuclear Hydrogen Production Market Size Growth Rate by Application (2021-2025)
- Figure 27. Global Nuclear Hydrogen Production Market Size Market Share by Region (2020-2025)
- Figure 28. North America Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)

Figure 29. North America Nuclear Hydrogen Production Market Size Market Share by Country in 2024

Figure 30. U.S. Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)

Figure 31. Canada Nuclear Hydrogen Production Market Size (M USD) and Growth Rate (2020-2025)

Figure 32. Mexico Nuclear Hydrogen Production Market Size (M USD) and Growth Rate (2020-2025)

Figure 33. Europe Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)

Figure 34. Europe Nuclear Hydrogen Production Market Share by Country in 2024

Figure 35. Germany Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)

Figure 36. France Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)

Figure 37. U.K. Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)

Figure 38. Italy Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)

Figure 39. Spain Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)

Figure 40. Asia Pacific Nuclear Hydrogen Production Market Size and Growth Rate (M USD)

Figure 41. Asia Pacific Nuclear Hydrogen Production Market Size Market Share by Region in 2024

Figure 42. China Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)

Figure 43. Japan Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. South Korea Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)

Figure 45. India Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)

Figure 46. Southeast Asia Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. South America Nuclear Hydrogen Production Market Size and Growth Rate (M USD)

Figure 48. South America Nuclear Hydrogen Production Market Size Market Share by Country in 2024

- Figure 49. Brazil Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 50. Argentina Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 51. Columbia Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 52. Middle East and Africa Nuclear Hydrogen Production Market Size and Growth Rate (M USD)
- Figure 53. Middle East and Africa Nuclear Hydrogen Production Market Size Market Share by Region in 2024
- Figure 54. Saudi Arabia Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 55. UAE Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 56. Egypt Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 57. Nigeria Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 58. South Africa Nuclear Hydrogen Production Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 59. Global Nuclear Hydrogen Production Market Size Forecast by Value (2020-2035) & (M USD)
- Figure 60. Global Nuclear Hydrogen Production Market Share Forecast by Type (2026-2035)
- Figure 61. Global Nuclear Hydrogen Production Market Share Forecast by Application (2026-2035)

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