

Global Hydrogen Generation Market Growth 2025-2031

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Abstracts

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The global Hydrogen Generation market size is predicted to grow from US\$ 281 million in 2025 to US\$ 480 million in 2031; it is expected to grow at a CAGR of 9.3% from 2025 to 2031.

Hydrogen Generation or Electrolysis is a promising option for hydrogen production from renewable resources. Electrolysis is the process of using electricity to split water into hydrogen and oxygen. This reaction takes place in a unit called electrolyze. Electrolyzes can range in size from small, appliance-size equipment that is well-suited for small-scale distributed hydrogen production to large-scale, central production facilities that could be tied directly to renewable or other non-greenhouse-gas-emitting forms of electricity production.

Global Hydrogen Generation key players include Proton On-Site, 718th Research Institute of CSIC, Hydrogenics, Shandong Saksay Hydrogen Energy, etc. Global top four manufacturers hold a share nearly 50%.

Asia Pacific is the largest market, with a share about 45%, followed by Europe, and Americas, both have a share over 45 percent.

In terms of product, Traditional Alkaline Electroliser is the largest segment, with a share about 55%. And in terms of application, the largest application is Traditional Alkaline Electroliser, followed by PEM Electroliser.

LP Information, Inc. (LPI) ' newest research report, the "Hydrogen Generation Industry Forecast" looks at past sales and reviews total world Hydrogen Generation sales in 2024, providing a comprehensive analysis by region and market sector of projected

Hydrogen Generation sales for 2025 through 2031. With Hydrogen Generation sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Hydrogen Generation industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Hydrogen Generation 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 Hydrogen Generation.

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

Segmentation by Type:

Traditional Alkaline Electroliser

PEM Electroliser

Segmentation by Application:

Power Plants

Steel Plant

Electronics and Photovoltaics

Industrial Gases

Energy Storage or Fueling for FCEV's

Power to Gas

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

Proton On-Site

718th Research Institute of CSIC

Teledyne Energy Systems

Hydrogenics

Nel Hydrogen

Suzhou Jingli

Beijing Zhongdian

McPhy

Siemens

TianJin Mainland

Areva H2gen

Shandong Saksay Hydrogen Energy

Yangzhou Chungdean Hydrogen Equipment

Asahi Kasei

Idroenergy Spa

Erredue SpA

ShaanXi HuaQin

Kobelco Eco-Solutions

ELB Elektrolysetechnik GmbH

ITM Power

Toshiba

Key Questions Addressed in this Report

What is the 10-year outlook for the global Hydrogen Generation market?

What factors are driving Hydrogen Generation market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Hydrogen Generation market opportunities vary by end market size?

How does Hydrogen Generation break out by Type, by Application?

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