

# Global Hydrogen Generation Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

https://marketpublishers.com/r/GF50281D5BAAEN.html

Date: January 2024

Pages: 152

Price: US\$ 3,480.00 (Single User License)

ID: GF50281D5BAAEN

# **Abstracts**

According to our (Global Info Research) latest study, the global Hydrogen Generation market size was valued at USD 249 million in 2023 and is forecast to a readjusted size of USD 444 million by 2030 with a CAGR of 8.6% during review period.

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.

The Global Info Research report includes an overview of the development of the Hydrogen Generation industry chain, the market status of Power Plants (Traditional



Alkaline Electroliser, PEM Electroliser), Steel Plant (Traditional Alkaline Electroliser, PEM Electroliser), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Hydrogen Generation.

Regionally, the report analyzes the Hydrogen Generation markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Hydrogen Generation market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Hydrogen Generation market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Hydrogen Generation industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Traditional Alkaline Electroliser, PEM Electroliser).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Hydrogen Generation market.

Regional Analysis: The report involves examining the Hydrogen Generation market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Hydrogen Generation market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.



The report also involves a more granular approach to Hydrogen Generation:

Company Analysis: Report covers individual Hydrogen Generation manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Hydrogen Generation This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Power Plants, Steel Plant).

Technology Analysis: Report covers specific technologies relevant to Hydrogen Generation. It assesses the current state, advancements, and potential future developments in Hydrogen Generation areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Hydrogen Generation market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Hydrogen Generation market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Traditional Alkaline Electroliser

PEM Electroliser

Market segment by Application



Power Plants
Steel Plant
Electronics and Photovoltaics
Industrial Gases
Energy Storage or Fueling for FCEV's
Power to Gas
Others
Major players covered
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

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Hydrogen Generation product scope, market overview, market estimation caveats and base year.



Chapter 2, to profile the top manufacturers of Hydrogen Generation, with price, sales, revenue and global market share of Hydrogen Generation from 2019 to 2024.

Chapter 3, the Hydrogen Generation competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hydrogen Generation breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017 to 2023.and Hydrogen Generation market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Hydrogen Generation.

Chapter 14 and 15, to describe Hydrogen Generation sales channel, distributors, customers, research findings and conclusion.



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