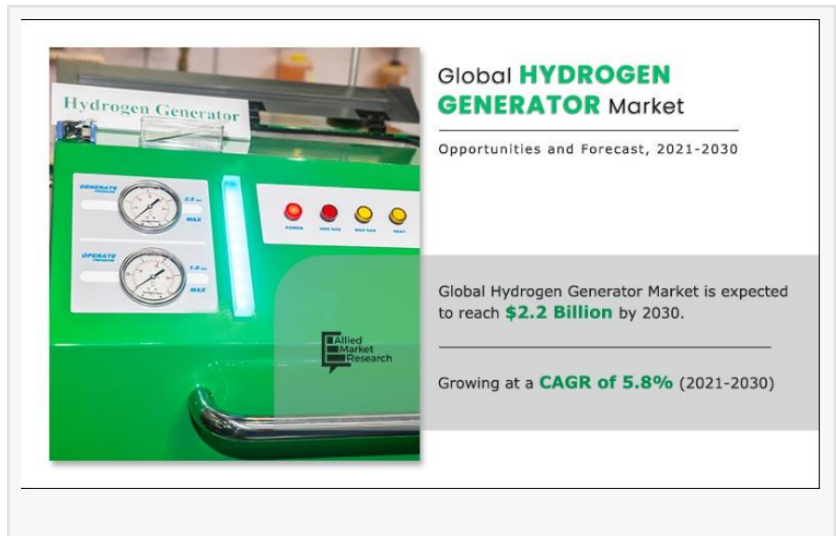


# Hydrogen Generator Market to Reach \$2.2 Billion by 2030 with 5.8% CAGR Growth

*Global Hydrogen Generator Market Surges with Green Energy Adoption, Forecast to 2030*

WILMINGTON, DE, UNITED STATES, September 16, 2025 /

EINPresswire.com/ -- According to a new report by Allied Market Research, the [hydrogen generator market](#) was valued at \$1.2 billion in 2020 and is projected to reach \$2.2 billion by 2030, growing at a CAGR of 5.8% from 2021 to 2030. Rising global awareness about hydrogen's role in clean energy and increasing government initiatives toward reducing greenhouse gas emissions are key drivers of market growth.



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Hydrogen generator market to reach \$2.2B by 2030, driven by clean energy demand, sustainability goals, and rising industrial adoption."

*Allied Market Research*

## Key Findings from the Report

Asia-Pacific hydrogen generator market to grow at the highest CAGR of 7.2% through 2030.

Onsite hydrogen generators accounted for the largest market share in 2020.

Steam reforming process dominated production

methods.

More than 1KW capacity segment held the majority share.

Chemical processing was the leading application sector.

Regional Analysis

Regionally, the hydrogen generator market is segmented into North America, Europe, Asia-Pacific, and LAMEA.

North America held the largest share in 2020 due to strong industrial demand and government initiatives.

Asia-Pacific is forecasted to be the fastest-growing region, with a CAGR of 7.2%, led by rising investments in renewable energy and [hydrogen infrastructure](#) in China, Japan, and South Korea.

### Growing Role of Hydrogen Generators in Green Energy

Hydrogen generators are gaining traction as industries and governments shift toward sustainable and eco-friendly energy alternatives. These systems produce hydrogen without the need for continuous fuel delivery, making them cost-effective and efficient. Growing emphasis on clean energy to combat climate change is expected to accelerate hydrogen generator market demand worldwide.

One of the major growth factors is the need to reduce greenhouse gases like CO<sub>2</sub>, methane, and nitrous oxide. These gases have significantly contributed to global warming, with average temperatures rising nearly 1°C over the last century. Governments and industries are increasingly turning to hydrogen-based solutions to cut emissions and enhance sustainability.

### Market Challenges

Despite strong growth potential, the hydrogen generator market faces certain challenges. High equipment costs and heavy investments compared to conventional fossil fuel generators may slow adoption. Additionally, infrastructure development for large-scale hydrogen deployment remains limited in some regions. However, technological innovation and supportive government policies are expected to mitigate these hurdles in the coming years.

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### Segmentation Insights

#### By Product Type

Onsite hydrogen generators accounted for the largest share in 2020 due to their efficiency and widespread adoption in industrial applications.

Portable hydrogen generators are gaining popularity for mobility and small-scale energy needs.

## By Process

Steam reforming dominated the market in 2020, owing to its maturity and cost-effectiveness in producing hydrogen at scale.

Electrolysis is expected to grow significantly, supported by renewable energy integration and [green hydrogen](#) initiatives.

## By Capacity

More than 1KW capacity segment held the largest market share in 2020, driven by industrial and commercial demand.

Smaller segments (<300W and 300W–1KW) serve niche applications like laboratories and portable systems.

## By Application

Chemical processing emerged as the leading application segment in 2020, with rising hydrogen use in refining and petrochemical industries.

Fuel cells are expected to see rapid growth as hydrogen-powered vehicles and stationary power systems expand.

Other applications include petroleum recovery and refining.

## Competitive Landscape

The market is highly competitive, with key players focusing on strategic partnerships and acquisitions to strengthen their positions. Major companies include:

Air Liquide

Air Products and Chemicals Inc.

Praxair Technology Inc.

Linde AG

Proton On-site Inc.

Hydrogenics Corporation

McPhy Energy SA

Nel Hydrogen

Epoch Energy Technology Corporation

MVS Engineering Pvt. Ltd.

For instance, in 2020, Air Products and Thyssenkrupp signed a cooperation agreement to build large-scale electrolysis plants to generate hydrogen. This collaboration highlights the increasing trend of partnerships aimed at boosting global hydrogen infrastructure.

### Impact of COVID-19 on the Hydrogen Generator Market

The COVID-19 pandemic brought mixed impacts on the hydrogen generator industry.

#### Negative Impacts:

Shutdowns in automotive and industrial sectors reduced hydrogen demand.

High costs led consumers to delay adoption of hydrogen fuel vehicles compared to fossil-fuel alternatives.

Reduced industrial production lowered electricity demand, thereby slowing hydrogen generation.

#### Positive Impacts:

Demand for hydrogen fuel cells in hospitals rose significantly as they powered critical medical equipment during emergencies.

Increased focus on resilient and sustainable energy systems is expected to drive long-term hydrogen generator adoption.

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### Conclusion

The hydrogen generator market is poised for significant growth as industries and governments embrace cleaner energy sources to reduce emissions. While high costs and infrastructure limitations remain challenges, increasing adoption of hydrogen in chemical processing, fuel cells,

and refining applications is expected to drive strong growth. With Asia-Pacific leading the charge, global hydrogen generator adoption will play a critical role in the transition toward a greener energy future.

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