

Hydrogen Detection Market to be worth US\$ 800 million by 2034 | Future Market Insights, Inc.

USA hydrogen detection market set for moderate growth with increasing demand for fuel cells across industries, driving hydrogen infrastructure expansion.



NEWARK, DELAWARE, UNITED STATES OF AMERICA, November 13, 2023 /EINPresswire.com/ -- The [hydrogen detection market](#) is anticipated to experience significant growth in the upcoming years. The market recorded a valuation of US\$ 240.3 million in 2023, and it is estimated to reach US\$ 270.3 million in 2024, with a healthy CAGR of 11.5% from 2024 to 2034. By 2034, the market valuation is expected to be worth US\$ 800 million.

Investments in hydrogen infrastructure are increasing, which presents new growth opportunities for the market. The demand for hydrogen fuel cells is rising, and they are being used more in several industries, such as transportation, power generation, and industrial applications. This is leading to new revenue streams for businesses involved in the production, storage, and distribution of hydrogen. The focus on sustainable energy sources is driving the demand for hydrogen infrastructure, as it is considered a cleaner and more efficient energy source. The growth of hydrogen infrastructure is essential for the transition toward a sustainable energy future.

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Hydrogen is widely used in various fields such as automotive and transportation, oil and gas refining, energy storage, power generation, coolant utilization, and chemical production, particularly in ammonia (NH₃). The fascinating thing about hydrogen gas is that it is non-toxic and inert when inhaled. However, it can be dangerous at high concentrations as it can displace oxygen, which can direct to asphyxiation.

For the development of the expanding hydrogen infrastructure, it will be highly desirable to have hydrogen detection technologies that exhibit high sensitivity, quick response, and robust reliability. Players operating in the hydrogen detection market can benefit from these investments by providing innovative and cost-effective solutions that meet the stringent safety

and performance requirements of the evolving hydrogen infrastructure. Companies can establish themselves as key players in this thriving market segment by addressing the specific needs of hydrogen infrastructure projects, such as large-scale storage facilities, pipeline networks, and refueling stations.

Regarding fieldwork and emergency response scenarios, portable hydrogen detectors are an essential tool. They are designed to be compact and portable, making them particularly useful in remote locations or situations where a fixed sensor is inaccessible. Their primary function involves conducting spot checks of hydrogen levels, detecting leaks, and ensuring that work environments are safe.

In addition, there is a potential for a significant increase in demand for portable hydrogen detectors. This is mainly due to their adaptability in various settings, including fieldwork and detecting leaks. The market for these detectors presents distinctive prospects, mainly in particular areas such as hydrogen fuel stations, catering to the changing requirements in safety and environmental concerns.

Key Takeaways from the Hydrogen Detection Market

The global hydrogen detection market is estimated to register a CAGR of 11.5% with a valuation of US\$ 800 million by 2034.

The market captured a CAGR of 13.5% in the historical period between 2019 and 2023.

Japan is anticipated to dominate the global market by registering a 12.8% CAGR during the forecast period.

With a 12.6% CAGR, South Korea is likely to drive the global market by 2034.

The United Kingdom is anticipated to secure a CAGR of 12.1% in the global market during the forecast period.

The hydrogen detection market in China holds a global market share of 11.8% by 2034.

As per the research, the United States acquire a value share of 2.1% in the hydrogen detection market by 2034.

Key Strategies

Major players innovate hydrogen detection, vying through partnerships, expansions, and tech advancements for market dominance in accuracy and reliability.

Key Companies in the Hydrogen Detection Market

MSA Safety Incorporated
Drägerwerk AG & Co. KGaA
Honeywell International Inc.
RAE Systems Inc.
Emerson Electric Co.
Teledyne Technologies
Figaro Engineering
H2Scan Corporation
NevadaNano
Siemens

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Recent Developments in the Hydrogen Detection Market

In October 2023, Honeywell unveiled their new H2S-XLT Hydrogen Sulfide Detector. The detector can detect hydrogen sulfide levels as low as one ppm in hazardous environments.

In September 2023, Siemens announced the launch of its new SiHy-Detect Hydrogen Detector, crafted for industrial use and can detect levels as low as ten ppm of hydrogen.

In February 2023, City Technology Ltd. launched its new H2-Sense hydrogen sensor. This sensor is based on a new electrochemical technology that offers high sensitivity and selectivity to hydrogen gas. It is also resistant to interference from other gases, such as carbon monoxide and methane.

Key Segmentation

By Product:

Sensors
Detectors
Analyzers
Monitors

By Technology:

Catalytic
Electrochemical
MOS (Metal Oxide Gas Sensors)

Solid-State
Thermal Conductivity

By Application:

Oil & Gas
Automotive & Transportation
Chemical
Metal & Mining
Energy & Power
Others

By Implementation:

Fixed
Portable

By Detection Range:

0 to 1000 ppm
0 to 5000 ppm
0 to 20000 ppm
> 0 to 20000 ppm

Explore Extensive Coverage in Industrial Automation Domain:

A CAGR of 9.78% is expected of the [global hydrogen combustion engine market](#) demand, due to the growing demand during the forecast period. It is anticipated to reach US\$ 46.31 Billion by 2033, up from US\$ 18.22 Billion in 2023.

The [USA hydrogen electrolyzer market size](#) is projected to expand at a CAGR of 23.8% from 2023 to 2033. It is anticipated to reach a valuation of about US\$ 790.8 million by 2033.

About Future Market Insights (FMI)

Future Market Insights, Inc. (ESOMAR certified, recipient of the Stevie Award, and a member of the Greater New York Chamber of Commerce) offers profound insights into the driving factors that are boosting demand in the market. FMI stands as the leading global provider of market intelligence, advisory services, consulting, and events for the Packaging, Food and Beverage, Consumer Technology, Healthcare, Industrial, and Chemicals markets. With a vast team of over 5000 analysts worldwide, FMI provides global, regional, and local expertise on diverse domains and industry trends across more than 110 countries.

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