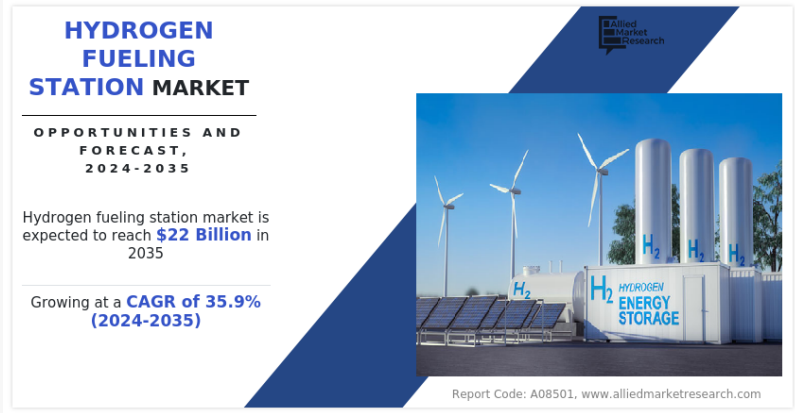
Hydrogen Fueling Station Market Poised to Reach $22.02 Billion by 2035, Driving the Future of Clean Energy



Hydrogen Fueling Station Industry Size

WILMINGTON, NEW CASTLE, DE, UNITED STATES, January 15, 2025 /EINPresswire.com/ -- Allied Market Research published a report, titled, "Hydrogen Fueling Station Market by Station Type (Small, Medium and Large), Vehicle Type (Passenger Cars and Commercial Vehicles), Vehicle Technology (Proton Exchange Membrane Fuel Cell, Phosphoric Acid Fuel Cells and Others), and Delivery Method (On-Site and Off-Site): Global Opportunity Analysis and Industry Forecast, 2024-2035". According to the report, the global hydrogen fueling station market is expected to be valued at $756.4 million in 2024 and is projected to reach $22,015.6 million by 2035, registering a CAGR of 35.9% from 2024 to 2035.

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The concept of a hydrogen fueling station is typically attributed to hydrogen or fuel cell electric vehicles (FCEVs) that provide a practical alternative to zero-emission mobility compared to battery electric vehicles (BEV). The hydrogen fueling station is built with a wide range of compressors and accumulators to effectively store & fill liquefied or gaseous hydrogen. Stations dispense hydrogen as a compressed gas at pressures of 10,000 psi (H70) for light-duty vehicles and 5,000 psi (H35) for all other vehicles. The fueling station has a storage tank based on the station's location and capacity, in which hydrogen can be stored as a liquid, a low-pressure gas, or a high-pressure gas.

Presently, governments across the globe are promoting the use of hydrogen-powered vehicles to reduce carbon emissions and save fuel. For instance, in 2019, European Union (EU) started the H2Haul project, which is expected run for five years. This EU-funded project aims to deploy 16 zero-emission fuel cell vehicles at four sites, i.e., Germany, Belgium, Switzerland, and France, by 2024. Moreover, the California Air Resources Board (CARB), Toyota, Shell, and Kenworth started

the $82 million Zero-Emission and Near Zero-Emission Freight Facilities (ZANZEFF) project.

The small segment is expected to maintain its dominance throughout the forecast period.

By station type, the small segment is expected to hold the highest market share in 2024, accounting for [four-fifths of the global hydrogen fueling station market revenue](), and is estimated to maintain its leadership status throughout the forecast period. This segment is projected to witness the highest CAGR of 35.1% from 2024 to 2035, owing to increase in the installation of small hydrogen fueling stations.

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□ In June 2023, Air Liquide & Iveco Group opened the first high-pressure hydrogen station for long-haul trucks in Europe. This strategy marks a step forward in the two companies' commitment to the development of hydrogen mobility in Europe.
□ In February 2023, Air Liquide entered into an agreement with TotalEnergies to develop a network of hydrogen stations for heavy-duty vehicles on major European road corridors. This strategy helps facilitate access to hydrogen, enabling the development of its use for goods transportation and further strengthening the hydrogen sector.
□ In May 2023, Air Products and Chemicals, Inc. signed an agreement with Aers Energy België to develop a multi-fuel, hydrogen refueling station for trucks. The new station will be the first commercial-scale hydrogen refueling station in Europe with liquid hydrogen storage. It will be built and operated by Air Products in addition to other liquid hydrogen refueling stations the company is developing throughout Europe.
□ In February 2021, Ballard Power Systems signed an agreement with Chart Industries, Inc. for the joint development of integrated system solutions that include a fuel cell engine with onboard liquid hydrogen (“LH2”) storage and vaporization for the transportation industry. Liquid hydrogen is well-suited for the transportation industry as its higher density, lower pressure, and ease of filling via liquid hydrogen pump contribute to the ability of larger mobile equipment to travel longer distances

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By vehicle type, the passenger vehicle segment is expected to witness the highest market share in 2024, accounting for nearly three-fourths of the global hydrogen fueling station market. However commercial vehicle segment is estimated to lead the market segment during the forecast period with a CAGR of 36.8%.

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By vehicle technology, the proton exchange membrane fuel cell segment accounted for the largest share in 2024, contributing to nearly half of the global hydrogen fueling station market revenue. However, others segment is projected to lead the market during the forecast period with a CAGR of 37.7% during the forecast period.

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By delivery method, the on-site segment accounted for the largest share in 2024, contributing to more than two-thirds of the global hydrogen fueling station market revenue and is projected to grow at a suitable CAGR of 36.7% during the forecast period. On-site refueling stations include vehicles that are used for refueling the vehicles that have consumed fuel mid-way of propulsion. In addition, hydrogen fuel vehicle owners face the difficulty of refueling their vehicles due to uneven availability of refueling stations and thus the need for on-site refueling rises, which eventually leads to the growth of the segment in the global market.

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By region, Asia-Pacific is expected to hold the highest market share in terms of revenue in 2024, accounting for two-fifths of the global hydrogen fueling station market revenue. However, Europe is expected to dominate the market during the forecast period. Automotive and portable applications have always been the prominent drivers of hydrogen fueling in the European market. In addition, due to rise in usage in industrial activities for zero-emission vehicles to be present across the region, hydrogen fuel cells & hydrogen fueling stations are gaining traction in the market. The economic slowdown in the Eurozone has affected fuel cell adoption to a considerable extent in transport, portable, and stationary applications. Moreover, Europe has stringent regulations for toxic materials and carbon emissions, which have fueled the growth of this market in Europe.

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China Petrochemical Corporation
Cummins Inc.
SHELL
Ballard Power Systems
FirstElement Fuel Inc.
FuelCell Energy, Inc.
Nuvera Fuel Cells LLC
TotalEnergies

H2Energy Solutions Ltd.
Air Products and Chemicals, Inc.
Air Liquide
PDC Machines Inc.
ITM Power PLC
Black And Veatch Holding Company
Nel ASA
Linde plc
TrueZero

The report provides a detailed analysis of key players in the global hydrogen fueling station market. These players have adopted different strategies such as new product launches, collaborations, expansion, joint ventures, agreements, and others, to increase their market share and maintain dominant shares in different regions. The report is valuable in highlighting business performance, operating segments, product portfolio, and strategic moves of market players to showcase the competitive scenario.

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https://www.alliedmarketresearch.com/hydrogen-powered-tractor-market-A07808 - Global Opportunity Analysis and Industry Forecast, 2025-2035

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