

## Kongres Container

# Analysis of the current status of hydrogen energy base stations



## Overview

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NREL's technology validation team is analyzing the availability and performance of existing hydrogen fueling stations, benchmarking the current status, and providing feedback related to capacity, utilization, station build time, maintenance, fueling, and geographic coverage. How many hydrogen refueling stations are there in 2024?

Interact Analysis recently launched its latest quarterly update for 'Global Hydrogen Refueling Stations - 2024'. According to our statistics, there were 1,369 hydrogen stations (HRS) deployed across 44 countries and regions worldwide by the end of 2024; with an additional 416 stations being planned or under construction.

Why is hydrogen based energy important?

Hydrogen-based energy is essential to the global energy transition to respond to climate issues effectively. This article provides a detailed review of the current status and development trends in traditional hydrogen production methods, generally based on energy-rich resources such as coal, natural gas, and oil possessing good economic viability.

What is the global hydrogen review?

The Global Hydrogen Review is an annual publication by the International Energy Agency that tracks hydrogen production and demand worldwide, as well as progress in critical areas such as infrastructure development, trade, policy, regulation, investments and innovation.

What is a hydrogen refueling station?

Hydrogen refueling stations (HRSs) are key infrastructures rapidly spreading out to support the deployment of fuel cell electric vehicles for several mobility purposes.

Are hydrogen refueling stations a problem?

Moreover, hydrogen refueling stations need at least two years or more to build whereas facilities for the mass production of FCEVs have already been equipped by auto manufacturers such as Hyundai and Toyota. Therefore, the problem of supplying sufficient hydrogen seems to be becoming more serious [ 22 ].

How many hydrogen refueling stations will Korea build in 2022?

The Korean government plans to build at least one hydrogen refueling station per city, so that consumers can use the station within 15 min. In addition, they plan to build 310 hydrogen refueling stations by 2022 on highways in large cities across the country in response to expanding the supply of hydrogen-fueled cars [ 84].

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