

SolarInvert Energy Solutions

Rankings of Hydrogen Energy Base Stations



Overview

How many hydrogen refueling stations are there?

By the end of 2023, there were 1,063 hydrogen refueling stations (HRS) in operation in 35 countries worldwide. The number of stations globally is forecast to increase to 6,080 by 2030, fueled by favorable government policies and rising demand for hydrogen-powered vehicles. The HRS supply chain comprises numerous regional and global operators.

Which country has the most hydrogen refueling stations?

A paid subscription is required for full access. China has the greatest number of hydrogen fuel stations of any country worldwide. As of August 2024, there were 226 operational hydrogen refueling stations in the country. This was followed by South Korea and Japan.

Which countries have the most hydrogen stations?

(Image: H2stations.org) Asia leads by a wide margin, boasting 748 active stations. China accounts for the largest share at 384, followed by South Korea with 198 and Japan at 161. Notably, South Korea added 25 stations – its third consecutive year at that pace – reinforcing its position as a major hydrogen hub.

Will hydrogen stations increase in the future?

Alastair Hayfield, Senior Research Director at Interact Analysis, says, “With the growth of hydrogen-powered vehicles and favorable policies towards the market, we expect deployments of hydrogen stations to increase in the coming months and years.

Where can I find hydrogen fueling station locations?

Visit the Alternative Fuels Data Center to find hydrogen fueling station locations in the United States. The following publications provide more information about NREL's hydrogen fueling infrastructure analysis activities

and capabilities.

How many hydrogen stations are there in Europe?

Notably, South Korea added 25 stations – its third consecutive year at that pace – reinforcing its position as a major hydrogen hub. Europe saw its station count rise to 294, with Germany at 113 and France at 65. The Netherlands reached 25 stations, while Bulgaria and Slovakia each opened their very first stations in their capitals.

Rankings of Hydrogen Energy Base Stations



1000 hydrogen refueling stations in operation globally, ...

May 24, 2024 · By the end of 2023, there were 1,063 hydrogen refueling stations (HRS) in operation in 35 countries worldwide. The number of stations globally is forecast to increase to ...

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Ten Chinese Green Hydrogen Companies Poised to Lead

Nov 4, 2020 · a summary of 10 Chinese energy companies investing in green hydrogen and their strategies in the green hydrogen market.

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China Sinopec

Mr. Ma Yongsheng, President of China Petroleum & Chemical Corporation and Academician of Chinese Academy of Engineering, has proposed to accelerate hydrogen energy industry ...

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Sinopec opens HK hydrogen refueling station

Dec 10, 2024 · Data released by the Chinese Renewable Energy Society show that China has built over 400 hydrogen refueling stations, ranking first in the ...

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Nearly 80% of global hydrogen refueling ...

Feb 7, 2025 · Regionally speaking, Asia Pacific has the largest hydrogen refueling network, with 62% of the global total, or 849 stations, in operation by the end ...

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Economic-environmental energy supply of mobile base stations ...

Feb 1, 2023 · Economic-environmental energy supply of mobile base stations in isolated nanogrids with smart plug-in electric vehicles and hydrogen energy storage system

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50KW modular power converter



China's Hydrogen Energy Industry Achieves ...

May 19, 2025 · In 2024, China continued

to refine policies and measures for the hydrogen energy industry, driving innovation in hydrogen technology and ...

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Sinopec opens HK hydrogen refueling station

Dec 9, 2024 · In addition to its environmental benefits, hydrogen refueling stations are also seen as a step toward diversifying Hong Kong's energy infrastructure, which currently relies heavily ...

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Geographic information big data-driven two-stage ...

Jun 15, 2021 · The promotion of hydrogen fuel cell vehicles (HFCVs) is an effective way to decarbonize the transportation industry. However, the shortage and difficulty in the layout of ...

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Deployment of Fuel Cell Vehicles and Hydrogen ...

Oct 30, 2024 · The analysis results

clearly indicate a very positive development trend for fuel cell vehicles and hydrogen refueling stations in 2021, with the highest number of new vehicles and ...

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China Surpasses Japan to Lead Global Hydrogen ...

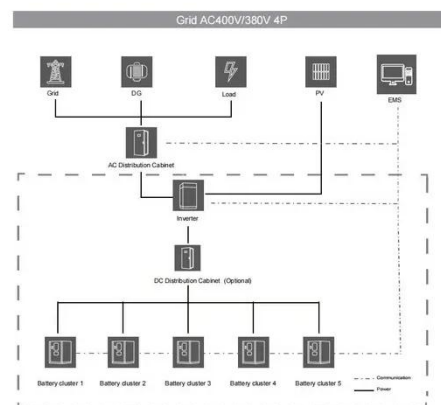
May 4, 2025 · China has surpassed Japan in terms of competitiveness in hydrogen energy patents, becoming the global leader. According to a recent ...

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Hydrogen Station Database 1Q 2025: China Leads with the

Jan 21, 2025 · According to the database, the highest number of hydrogen stations have been built in China, followed by Japan. In the Asia-Pacific region, the deployments in China grew ...

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Top 10: Hydrogen Companies , Energy Magazine

Jul 19, 2023 · Energy Digital takes a look



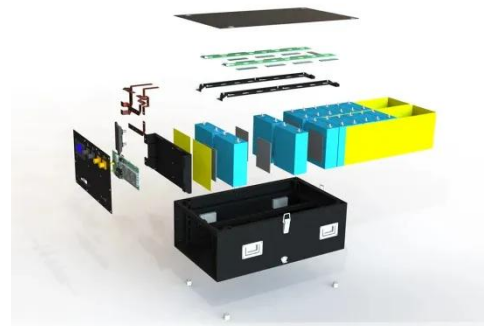
at the top 10 companies making waves in the industry as we continue to see growth in hydrogen demand and generation

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Global Hydrogen Station Database 1Q 2025: ...

Jan 27, 2025 · According to the database, the highest number of hydrogen stations have been built in China, followed by Japan. In the Asia-Pacific ...

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Optimal sites selection of oil-hydrogen combined stations ...

Jan 8, 2023 · The popularity of hydrogen refueling stations in China is hindered by unreasonable site selection and high initial costs. Built gas stations with large consumer groups and ...

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A study on the macro-micro two-stage site selection of ...

Jun 25, 2025 · A novel model for hydrogen refueling stations based on DC

microgrids utilizing renewable energy sources for hydrogen production and refueling has become a focal point of ...

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Number of hydrogen fuel stations by country ...

Aug 19, 2025 · China has the greatest number of hydrogen fuel stations of any country worldwide. As of August 2025, there were. Log in or register to access ...

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Risk analysis on mobile hydrogen refueling stations in Shanghai

Dec 3, 2014 · To better understand the hazards and risks associated with the mobile hydrogen refueling stations, a risk analysis was preformed to improve the safety...

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New report: There are now 1,000+ hydrogen ...

Feb 17, 2025 · According to the latest



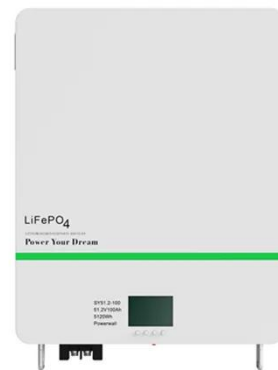
figures from LBST's H2stations report, the number of operational hydrogen refuelling stations worldwide has officially ...

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Sinopec opens HK hydrogen refueling station

Dec 10, 2024 · Data released by the Chinese Renewable Energy Society show that China has built over 400 hydrogen refueling stations, ranking first in the world in number.

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Hydrogen Fueling Infrastructure Analysis , Hydrogen and ...

Feb 13, 2025 · NREL's technology validation team is analyzing the availability and performance of existing hydrogen fueling stations, benchmarking the current status, and providing feedback ...

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China tops world in hydrogen stations, fueling a ...

Jan 6, 2024 · According to Jiang Lijun, vice president of the Chinese Renewable Energy Society, China has built over 400 hydrogen refueling stations, ranking ...

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Top 25 Companies Excelling in Hydrogen Energy ...

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Cost-benefit analysis of solid hydrogen storage technology:

...



Apr 9, 2025 · The breakthrough of solid hydrogen storage technology is not only the optimization of technical route, but also the key for the hydrogen energy industry to move from ...

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Nation takes global lead in hydrogen energy output

May 14, 2025 · Foreign delegates check out hydrogen production equipment during a power expo in Beijing in March. CHEN XIAOGEN/FOR CHINA DAILY China emerged as a global leader in ...



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Safety resilience evaluation of hydrogen refueling stations ...

May 13, 2024 · In the field of hydrogen energy research, El Manaa Barhoumi et al. conducted in-depth research on utilizing photovoltaic power stations to produce hydrogen, optimizing the ...

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An integrated SWOT-fuzzy AHP-fuzzy TOPSIS analysis of various hydrogen

Aug 6, 2025 · The transition from fossil fuel dependency to low-carbon pathways and energy storage is heavily reliant on various options. Hydrogen is playing a pivo...

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More than 1,000 H2 refueling stations in ...

Feb 13, 2025 · Around 1,160 H 2 refueling stations were in operation worldwide at the end of 2024, which represents a further increase compared to the previous ...

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