



WALMER ENERGY

Domestic hydrogen energy site ranking





Overview

What is the global hydrogen review?

The Global Hydrogen Review was prepared by the Energy Technology Policy (ETP) Division of the Directorate of Sustainability, Technology and Outlooks (STO) of the International Energy Agency (IEA). The study was designed and directed by Timur Gül, Chief Energy Technology Officer.

Where can I find IEA hydrogen production projects?

production can be found in the new Hydrogen Tracker available on the IEA website. Source: IEA Hydrogen Production Projects Database (September 2025). Only around 10 Mtpa of low-emissions hydrogen production are almost certain or have strong potential to be operational by 2030.

Which country has the most hydrogen refuelling stations in the world?

Source: IEA (2025), Global Electric Vehicle Outlook 2025. China leads the global roll-out of hydrogen refuelling stations, whereas station availability has declined in the United States, due to reliability and hydrogen supply issues.

Why is a hydrogen market integrated in the National Energy Modeling system (NEMS)?

Representing an integrated hydrogen market in the National Energy Modeling System (NEMS) allows us to analyze the potential growth in hydrogen use as a clean energy source and to reflect current laws and regulations in our projections.



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Hydrogen Tracker - Data Tools

Sep 12, 2025 · About the tracker This tool enables users to explore historical data on the production of low-emissions hydrogen, transmission pipelines ...

Global Hydrogen Review 2025

Sep 11, 2025 · Abstract The Global Hydrogen Review is an annual publication by the International Energy Agency that tracks hydrogen production and demand worldwide, shedding light on the ...

Introduction: DOE Hydrogen and Fuel Cells Program FY ...

Dec 2, 2025 · Introduction The U.S. Department of Energy's (DOE's) Hydrogen and Fuel Cells Program (the Program) provides funding and strategic direction for research, development, ...

Evaluating Renewable Energy Sites in the ...

Aug 16, 2024 · Green hydrogen can be generated through electrolysis using electricity from renewable sources, such as wind and solar, to split water ...

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 larg...

Hydrogen Production , Hydrogen Program

The U.S. Department of Energy Hydrogen Program, led by the Hydrogen and Fuel Cell Technologies Office (HFTO) within the Office of Energy Efficiency and Renewable Energy ...

Green Hydrogen Leaders - Q3 2025

Home Data & Insights Thematic Indicators Green Hydrogen Leaders - Q3 2025 By the end of Q2 2025, the total active and upcoming capacity for low-carbon hydrogen stood at 132mtpa, with ...

China Hydrogen Energy Enterprise Ranking 2023

Apr 20, 2024 · 1) Hydrogen production: Domestic shipments of water electrolysis hydrogen production equipment will reach 722MW in 2022, doubling year-on-year, a significant increase ...

Selection of a green hydrogen production facility location ...

Apr 2, 2025 · While green hydrogen site selection involves a broad range of technical, economic, environmental, and policy considerations, this study specifically focuses on the integration of ...

Hydrogen

2 days ago · What is the role in clean energy transitions? Low-emissions hydrogen produced



with renewable or nuclear energy, or fossil fuels using ...

Top 10 Green Hydrogen Projects in the World ...

1 day ago · NEOM green hydrogen project along with Brint and Xinjiang green hydrogen projects make it to the top 10 largest green hydrogen ...

Hydrogen Tracker - Data Tools

Sep 12, 2025 · About the tracker This tool enables users to explore historical data on the production of low-emissions hydrogen, transmission pipelines and underground storage ...

Hydrogen hubs are key to domestic energy production and ...

May 8, 2025 · Hydrogen hubs are intended to test, develop, and demonstrate technologies needed to minimize emissions intensity of hydrogen production, and the Regional Clean ...

Top 10 Green Hydrogen Projects in the World (2025)

1 day ago · NEOM green hydrogen project along with Brint and Xinjiang green hydrogen projects make it to the top 10 largest green hydrogen power plants in the world. Discover the complete list.

Annual Energy Outlook 2025 Fact Sheet: Hydrogen ...

Apr 14, 2025 · Hydrogen Market Module We have introduced a new Hydrogen Market Module (HMM) to represent the domestic hydrogen market in the Annual Energy Outlook 2025 ...

Hydrogen hubs are key to domestic energy ...

May 8, 2025 · Hydrogen hubs are intended to test, develop, and demonstrate technologies needed to minimize emissions intensity of hydrogen ...

Beyond the triangle of renewable energy acceptance: The ...

Oct 15, 2022 · Despite this imperative, the social acceptance of domestic hydrogen energy technologies remains underexplored by sustainability scholars, with limited insights regarding ...

Energy.gov

Dec 5, 2025 · The U.S. Department of Energy Hydrogen Program, led by the Hydrogen and Fuel Cell Technologies Office (HFTO) within the Office of ...

Homes of the future: Unpacking public perceptions to ...

May 31, 2022 · 1. Introduction Since the idea of a global 'hydrogen economy' [1] was introduced in the 1970s [2], the hydrogen revolution has been met with a series of 'false dawns' [3]. Despite ...

China Hydrogen Energy Enterprise Ranking ...

Apr 20, 2024 · 1) Hydrogen production: Domestic shipments of water electrolysis hydrogen production equipment will reach 722MW in 2022, ...



International Journal of Hydrogen Energy

Jun 24, 2025 · Underground hydrogen storage suitability index: A geological tool for evaluating and ranking storage sites Lorenzo Borghini a,*^a, Amerigo Corradetti a, Anna Del Ben a, ...

China Hydrogen Energy Enterprise Ranking ...

Apr 26, 2024 · Hydrogen energy is the cleanest energy in the 21st century and is a key technology route and research direction of the third energy ...

Site suitability analysis for green hydrogen production using ...

Jan 6, 2025 · The study reported in [11] selected the best site for hydrogen generation from wind energy among 13 provinces in Saudi Arabia using the EDAS, COPRAS, and WSM methods.

Department of Energy Hydrogen Program Plan

1 day ago · Clean hydrogen is part of a comprehensive portfolio of solutions to achieve net-zero-carbon emissions by 2050, as well as create American jobs, energy security, and technology ...

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