SolarCabinet Energy

Japan Hydrogen Energy Site Layout

Overview

What is Japan's 'basic hydrogen energy strategy'?

In December 2017, the Japanese government issued the “Basic Hydrogen Energy Strategy”, putting forward strategic steps and goals for hydrogen energy application , which includes ambitious goals: spread about 800,000 FCVs by 2030, 160 hydrogen refueling stations by 2020, and 320 by 2025.

How can hydrogen be used in Japan?

Principles for the widespread use of hydrogen in Japan Hydrogen may be produced from various energy sources and is burned without emitting CO2. It is the key energy source for carbon neutrality. In addition, hydrogen can be used not only as a fuel but also as a raw material. It shows great potential across many different industrial areas.

Why does Japan have a hydrogen policy?

Japan's profound energy insecurity is a driving force behind its hydrogen strategy. As a resource-poor island nation, it imported approximately 87% of its energy in 2023, with self-sufficiency declining sharply since the 2011 Fukushima nuclear disaster.

Is Japan a 'hydrogen society'?

Since 2017, Japan has envisioned a 'hydrogen society,' integrating hydrogen across various sectors from transportation and steel production to gas and electricity. It was the first nation to publish a national hydrogen strategy, positioning hydrogen as a cornerstone for industrial competitiveness and energy security.

How many hydrogen stations will Japan have by 2020?

In collaboration with Japan H2 Mobility (JHyM), the goal of 160 stations by 2020 was almost achieved. We will assume a wide range of usage scenarios compatible with projected hydrogen mobility demands and accelerate the

construction of large-scale and multi-use hydrogen stations. We will promptly update the support scheme in reference to input from.

Is there a hydrogen depot in Japan?

Therefore, there is no hydrogen depot in Japan. When the requirement for hydrogen increases, it is necessary to consider the construction of a hydrogen depot. In this study, a candidate location of hydrogen depot for the storage and supply of hydrogen for the whole study area also are picked out.

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[First demonstration of a commercial scale liquid hydrogen ...]

Project Goal This project proposes to develop a first-of-its-kind affordable very-large-scale liquid hydrogen (LH2) storage tank for international trade applications, primarily to be ...

[Optimal design and technoeconomic analysis of on-site hydrogen]

??: In this study, a grid-connected on-site hydrogen filling station (HRS) integrated with renewable energy systems is designed and examined for different daily hydrogen refueling ...

[Roadmap to hydrogen society of Tokyo: Locating priority of hydrogen]

Under the premise of promoting the application of hydrogen energy globally and vigorously building hydrogen energy facilities, research methods that correspond to the actual ...

[Hydrogen Society Promotion Act Enacted. Toward a Forthcoming Hydrogen]

Following this, the Hydrogen Society Promotion Act* was enacted in May 2024 to ensure the widespread adoption of hydrogen as an energy

source and promote its utilization. ...

[Demonstrations of Renewable Energy Hydrogen Fueling Stations]

As hydrogen fueling stations are still at an early stage, constructing a supply chain from only low-carbon hydrogen sourced from renewable energy presents new challenges in terms of ...

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