

When will Bhutan build a hydrogen energy station



Overview

The three-stage green hydrogen implementation plan envisions a 485 MW electrolyzer capacity by 2050, that will supply the country with over 70,000 tons of clean hydrogen per annum. Bhutan is preparing to launch its first hydrogen pilot project. Following the soft launch of the National Hydrogen Roadmap at CoP28 in December last year in Dubai, the final version was officially launched on 14th January in the capital. This comprehensive roadmap outlines our strategic vision for integrating hydrogen into Bhutan's energy landscape. Developed by the Department of Energy (DoE), it acknowledges the invaluable contributions made towards the preparation of the National Hydrogen roadmap. This crucial document was developed with the collaboration and support from various esteemed organizations and dedicated individuals. The plant will produce hydrogen, which will be used in hydrogen-powered vehicles, reducing dependency on fossil fuels. THIMPHU - The country's first green hydrogen pilot plant, located in Gidawom near the Thimphu-Paro highway, is expected to begin with a 1-megawatt (MW) facility and scale up to a 5-MW electrolyzer with on-site refueling infrastructure. With its abundant hydropower resources—estimated at 32,600 MW of technoeconomically viable potential—Bhutan aims to leverage its clean and renewable.

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Bhutan targets 485 MW green hydrogen capacity by 2050

As per the Hydrogen Roadmap of Bhutan 2024, the country's three-stage green hydrogen implementation plan envisions a 485 MW electrolyzer capacity by 2050, which will supply over ...

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Bhutan Targets 485 MW Green Hydrogen Capacity by 2050

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Bhutan to Develop Its First Hydrogen Pilot Project

Bhutan is preparing to launch its first hydrogen pilot project. The Department of Energy, under the Ministry of Energy and Natural Resources (MoENR), has unveiled plans for a pilot initiative aimed at reducing ...

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Launch of National Hydrogen

Roadmap

Following the soft launch of the National Hydrogen Roadmap at CoP28 in December last year in Dubai, the final version was officially launched on J, in the capital. This comprehensive roadmap ...

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Bhutan to build first hydrogen plant, paving way for hydrogen economy

Bhutan is taking its first step towards a green hydrogen economy. The country plans to construct its first green hydrogen plant at Gidawom in Thimphu. It will be a pilot project. The plant will ...

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National Green Hydrogen Roadmap to Boost Sustainability & Energy

Looking ahead, Bhutan plans to develop its first hydrogen export routes by 2030, targeting major Asian markets, particularly China and India. The strategic location of Bhutan in South Asia ...

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Bhutan launches National Green Hydrogen Roadmap

A five-megawatt green hydrogen plant will soon be constructed near the

Gidakom Mini Power Plant to meet the demands of fuel cell vehicles. Bhutan aims to establish its first hydrogen ...



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Bhutan Sets Ambitious Target of 485 MW Green Hydrogen Capacity by ...

Backed by a USD 395 million strategy, the initiative aims to decarbonize Bhutan's transport and industrial sectors. The government projects 2,700 hydrogen-powered vehicles by 2030, increasing to 45,000 ...



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Hydrogen Roadmap of Bhutan

The immense potential to produce green hydrogen at a competitive price in the region would enable Bhutan to become a global player in the international hydrogen market, significantly contributing to the global clean ...

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Bhutan , Green Hydrogen Organisation

In May 2025, Bhutan announced its first green hydrogen pilot plant in Gidawom,

near the Thimphu-Paro highway.

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