

## Kongres Container

# When will Bhutan build a hydrogen energy station



## Overview

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Bhutan's Hydrogen Roadmap 2024 aims for a 485 MW electrolyzer capacity by 2050, supplying over 70,000 tonnes of clean hydrogen annually, requiring investment of USD 395m by 2050, leveraging growing low-emission momentum. How much hydrogen will Bhutan have by 2050?

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.

Will Bhutan launch 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 the country's reliance on fossil fuels and advancing its carbon-neutral goals.

Why should Bhutan invest in green hydrogen?

"Fossil fuel imports have a considerable impact on Bhutan's trade deficit, placing pressure on the economy," the speaker said. "At the same time, Bhutan has made a strong global commitment to remain carbon neutral. In this context, investing in green hydrogen is not just an energy solution—it is an economic and environmental imperative.

Will Bhutan have a thriving hydrogen economy by 2040-2050?

By 2040–2050, Bhutan envisions a thriving hydrogen economy supported by a comprehensive supply and distribution system. The speaker expressed confidence that Bhutan will be able to harness the full potential of hydrogen as a clean energy carrier.

Is Tetra Tech preparing a roadmap for green hydrogen in Bhutan?

[Tetra Tech's] report has proved to be an invaluable resource in preparing our

roadmap, and we are grateful for your contribution towards the development of green hydrogen in Bhutan.

Can Bhutan generate hydrogen?

Tetra Tech reviewed the potential for hydrogen generation in Bhutan in the project's first phase. Our experts assessed the country's current and future hydropower development and consulted with market experts to better understand the potential for hydrogen production and utilization.

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