

# **Do Bhutan solar power stations require energy storage**





## Overview

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How can Bhutan improve its energy security?

To improve Bhutan's energy security while strengthening resilience to water variation and climate change, it is required to diversify power generation sources and types, including (i) solar farms, rooftop and floating solar, and agrivoltaics; and (ii) storage and pumped storage hydropower and small hydropower. 4 H. Nagai et al. 2017.

How much energy can a rooftop solar system generate in Bhutan?

Bhutan's estimated total energy generation potential from rooftop solar system is 3,586 MW, including specific estimates for Thimphu (789 MW) and Paro (206 MW).<sup>5</sup> In Thimphu alone, there are 1,521 government buildings suitable for rooftop solar installations, with an estimated capacity of 50 MW.

What is Bhutan's energy security & sustainable growth policy?

Titled "Empowering Energy Security & Sustainable Growth," the policy consolidates and supersedes several prior frameworks, including the Bhutan Sustainable Hydropower Development Policy 2021, Alternative Renewable Energy Policy 2013, Domestic Electricity Tariff Policy 2016, and National Energy Efficiency & Conservation Policy 2019.

Who owns the energy sector in Bhutan?

Bhutan's energy sector operations have separate commercial management and ownership from the government. The state-owned Druk Green Power Corporation (DGPC) owns and operates power plants while the Bhutan Power Corporation, also state-owned, performs transmission and distribution.



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### [National Energy Policy 2025](#)

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## Distributed Solar for Public Infrastructure Project: Sector ...

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