



# Bhutan solar power generation home new energy power generation home

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What is a solar project in Bhutan?

**Project Goals and Approach to Transformational Change:** The project aims to install 30 MW of solar PV and strengthen the regulatory environment to accelerate Bhutan's renewable energy market, fully realising its solar energy plan of 1000 MW as planned by the government in the current five-year plan (2024-2028).

How will solar and wind projects help Bhutan?

The introduction of solar and wind projects helps Bhutan stabilise supply throughout the year. The 500 MW Reliance solar farm and local solar-wind installations like those in Sephu and Rubesa will cover winter shortfalls and reduce the need to import power during dry months.

What is Bhutan's energy policy?

According to the National Energy Policy released in June 2025, Bhutan aims to expand its total installed capacity to 25 GW by 2040 -- 20 GW from hydropower and 5 GW from solar and wind. This strategy focuses on balancing export-oriented hydro projects with localised renewable generation to ensure year-round energy security.

Will Reliance Power build a 500 MW solar farm in Bhutan?

Reliance Power, under its May 2025 joint venture with Druk Holding and Investments' subsidiary Green Digital, is taking the lead on Bhutan's largest solar investment to date -- a 500 MW solar farm to be built in phases across western and central Bhutan.

Bhutan is fast emerging as a regional leader in renewable energy, with an ambitious push to expand solar power across the country. The Royal Government of Bhutan (RGoB), through the Ministry of ...

Scheduled for completion within 24 months, the solar power project is expected to be operational by May 2027. It will play a crucial role in expanding Bhutan's solar energy capacity, ...

As Bhutan's glaciers melt and hydropower becomes increasingly vulnerable to climate change, the Kingdom is turning its face toward the sun--literally. With rising temperatures and erratic rainfall ...

In a significant step toward energy self-sufficiency, Bhutan today commissioned the first phase of its largest

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solar power project, the Sephu Solar Project, in Wangdue Phodrang. The facility, ...

Introduction and Background: Bhutan, a carbon-negative country, faces a growing threat to its environment due to climate change. Accelerated glacial melt and unpredictable river flows are ...

The present study estimated the energy output from a photovoltaic system and compared the results with existing literature. We further evaluated the annual energy production capacity of ...

Through its green energy generation from the project, it is expected to boost the firm power during the winter season and complement hydro generation, which plummets during the ...

The development of solar energy in Bhutan offers a compelling rationale to attain these objectives. By harnessing the available solar resources, Bhutan can diversify its energy mix, enhance its energy self ...

Bhutan is entering a new era of clean energy with major commitments from Adani, Reliance, and Tata to develop large-scale hydro and solar projects across the kingdom. The ...

Bhutan has launched its National Solar Energy Roadmap to diversify its energy sources and bolster energy security amid rising electricity demand. This landmark initiative positions solar ...

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