

# **Bhutan wind and solar hybrid power generation system**





## Overview

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Can solar power plants help Bhutan achieve energy security?

The Solar Plant in Rubesa is one such initiative that takes Bhutan a step closer to achieving energy security through a diversified and sustainable energy supply mix. The project particularly demonstrates the viability of solar power plants on a utility-scale.

Does Bhutan have a solar energy project?

The project was executed by the Bhutanese government's Department of Renewable Energy in collaboration with the Bhutan Power Corporation, a public utility. It received funding support from the Japanese government and was supported by the United Nations Development Programme in Bhutan. Is this the start of a solar energy rollout in Bhutan?

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Why should Bhutan invest in solar energy?

Like hydropower, sun is a bountiful resource Bhutan can tap into for producing renewable energy in keeping with our carbon neutrality commitments and also for enhancing energy security through diversification of energy sources.

How is Bhutan achieving energy security?

Bhutan is undertaking various initiatives to broaden its energy mix by exploring other clean, renewable energy sources. The Solar Plant in Rubesa is one such initiative that takes Bhutan a step closer to achieving energy security through a diversified and sustainable energy supply mix.



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### [\(PDF\) IMPACTS OF INTEGRATING SOLAR](#)

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Hydropower has been the primary source of electricity in Bhutan, and to achieve power security and sustainability, alternative renewable energy sources (RES) such as solar and wind are being ...

### [Bhutan's Solar Energy Roadmap: A Path to ...](#)

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 power as a vital step ...



### [Bhutan is tapping into solar energy with its ...](#)

Electricity in Bhutan is mostly generated from hydropower, a renewable energy source, unlike fossil-fuel driven power plants that are major contributors to carbon dioxide emissions worldwide.

### [Bhutan looks beyond hydropower to solar](#)

A large-scale, grid-connected solar plant in Bhutan, the first of its kind, is part of a drive to enhance energy security and diversify electricity sources beyond hydropower A ...



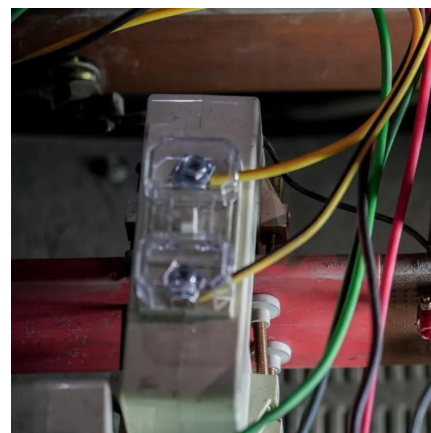
[\(PDF\) IMPACTS OF INTEGRATING SOLAR AND WIND PLANTS INTO THE POWER](#)

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[Bhutan looks beyond hydropower to solar](#)

A large-scale, grid-connected solar plant in Bhutan, the first of its kind, is part of a drive to enhance energy security and diversify electricity sources beyond hydropower A 180kW solar plant in Wangduephodrang ...



[Bhutan's Solar Energy Roadmap: A Path to Energy Security](#)

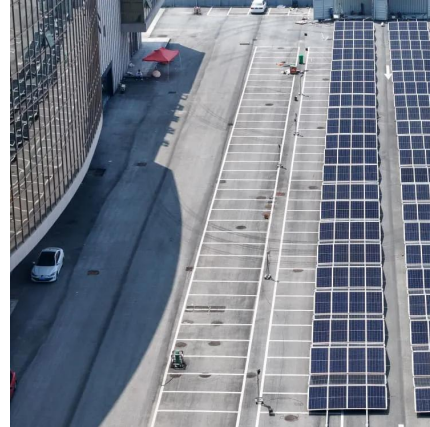
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## [A Comprehensive Review of Bhutan's National Energy Policy ...](#)

Explore Bhutan's transformative National Energy Policy 2025 (approved June 2025): how it consolidates previous energy frameworks into one cohesive NEP, opens ...



## **Bhutan is tapping into solar energy with its first grid-tied solar**

Electricity in Bhutan is mostly generated from hydropower, a renewable energy source, unlike fossil-fuel driven power plants that are major contributors to carbon dioxide emissions worldwide.

## [Wind and Solar Resource Potential Assessment in Bhutan](#)

Among all the renewable energy systems solar and wind power are most mature technologies which can be used for power generation. This paper aims to calculate the wind ...



## [Bhutan's biggest solar project finally powers up](#)

Punakha--After months of delays caused by incessant rain and prolonged monsoon, Phase II of Bhutan's first utility-scale solar power plant in Yongtru, Sephu Gewog, is finally ...



## Assessment of solar energy generation potential in Western Bhutan ...

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



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