

Bhutan wind solar and energy storage project construction





Overview

What is Bhutan's first solar power project?

The first phase of Bhutan's first utility-scale solar power project at Sephu in Wangdue Phodrang is set for completion by March next year. A utility-scale solar facility generates solar power and feeds it into the grid. The 17.38-megawatt solar farm is expected to generate around 24 million units of energy annually, once operational.

Will Reliance Enterprises develop a 500 MW solar power project in Bhutan?

In October 2024, Reliance Enterprises, jointly promoted by Reliance Power and Reliance Infrastructure, initiated a strategic partnership with DHI to develop solar and hydropower projects in Bhutan. As part of the agreement, the firms will jointly develop a 500 MW solar power project.

Can solar power plants help Bhutan achieve energy security?

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

Why should Bhutan invest in solar power?

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. The commissioning and inauguration of the 180kW grid-tied ground mounted solar photo-voltaic power plant.

How much solar energy will Bhutan produce?

According to the Renewable Energy Management Master Plan 2016, Bhutan has the potential to generate 12 gigawatts of solar power and 760 MW of wind energy. The first phase of the Sephu solar farm is expected to produce 25



million units of energy, enough to power 3,476 households, assuming an average urban household consumes five kilowatts of energy.

What is Bhutan's largest solar project?

The Sephu project will be Bhutan's largest solar facility. Credit: Bhutan ministry of energy and natural resources The Bhutanese government has started construction on the country's first utility-scale solar farm, the Sephu solar project, which boasts a capacity of 17.38MW.



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With groundbreaking projects like the Sephu solar plant and the upcoming Jamjee initiative, the country is actively diversifying its power sources to reduce reliance on hydropower and imports.

[Harnessing Bhutan's solar potential with market-driven solutions](#)

Nearly all of Bhutan's electricity comes from its glacier-fed hydropower plants. In a first major step towards diversifying its energy mix, the Himalayan Kingdom initiated a 180-kW ...



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The government plans to finish construction on the project by the end of 2024, at which point it will transfer operation of the plant to Druk Green Power, a Bhutanese electric utility.

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