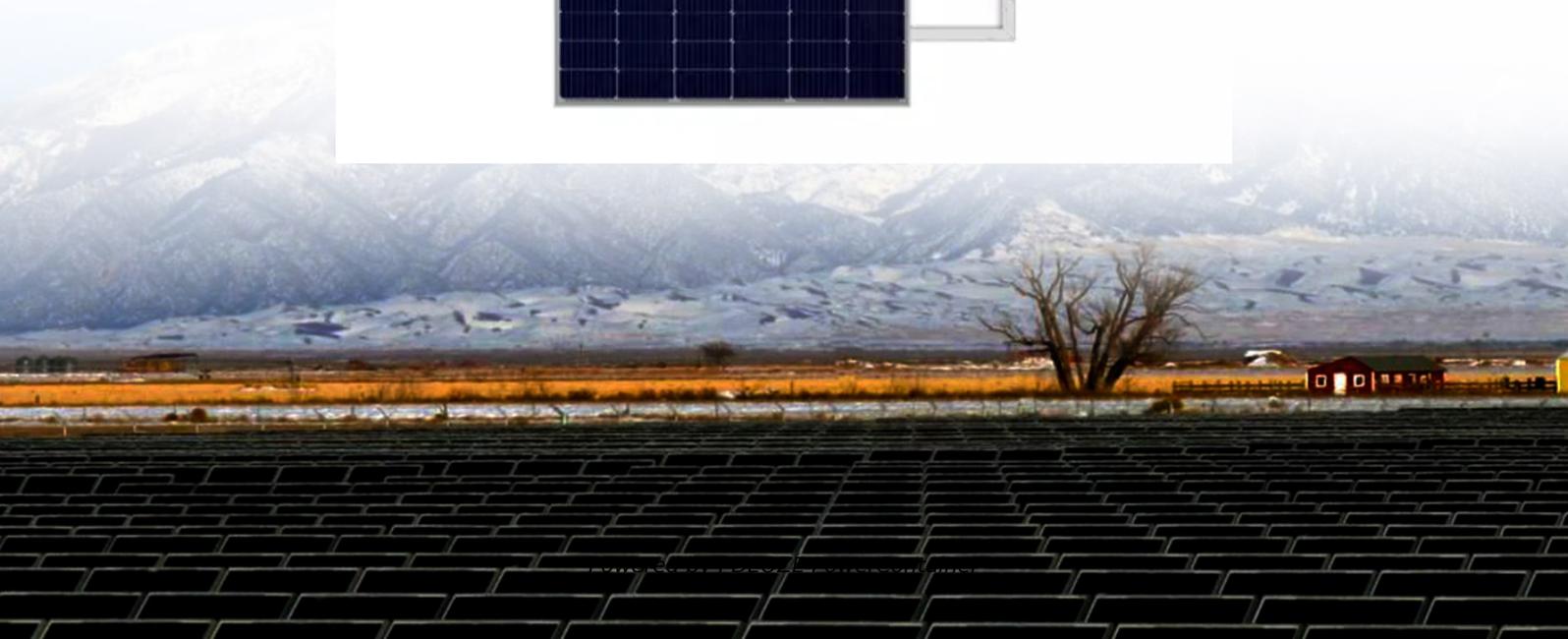


## **PDEOZE PowerContainer**

# **Bhutan s wind and solar hybrid communication base station construction status**



## Overview

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The Bhutanese government plans to complete the project construction by the end of 2024. At that time, the power station will be handed over to the Bhutanese power company Druk Green Power for operation. 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.

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.

Can a solar power plant boost hydropower supply in Bhutan?

"Solar plant such as this can augment hydropower supply to meet our rapidly increasing domestic electricity demand, especially in winter months," he said. 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.

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.

Who inaugurated a solar photo-voltaic power plant in Bhutan?

On October 4, 2021, the Chairperson of the National Council of Bhutan,

Lyonpo Tashi Dorji, inaugurated the 180kW grid-tied ground-mounted Solar Photo-Voltaic Power Plant at Rubesa, Wangdue Phodrang.

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In line with these goals, a 22.38 MW solar farm is currently under construction in Sephu, while a 30 MW solar farm is planned in Bumthang district. To realise its ambitious solar ...

Construction is expected to commence in 2026 with a five-year development timeline, setting the stage for the first power generation by around 2031.

Alternative renewable energy sources such as solar, wind, geothermal and biomass will be leveraged, to contribute to the energy mix and enhance energy security. There ...

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Therefore, this paper discusses the assessment wind and solar resource potential of some of the selected sites of Bhutan using measured data from local weather stations and ...

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