

## ContainerPower Energy Solutions

# Bhutan with solar power supply system



## Overview

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The roadmap, developed by the Bhutan Energy Research and Development Center (BERDC) with support from the International Solar Alliance (ISA), focuses on deploying large-scale ground-mounted solar PV plants, mini-grids, and rooftop solar systems across the country. 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.

Can solar power diversify Bhutan's energy sources?

The 180 kW grid-tied solar PV plant, the first of its kind in the country, demonstrates viability of solar power to diversify Bhutan's energy sources  
Photo: Department of Renewable Energy, Ministry of Economic Affairs.

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 which takes Bhutan a step closer to achieving energy security through a diversified and sustainable energy supply mix.

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.

Is grid-tied solar a viable alternative energy source in Bhutan?

The commissioning and inauguration of the 180kW grid-tied ground mounted solar photo-voltaic power plant marks the start of Bhutan's investment in grid-tied solar energy as a viable alternative energy source in the face of soaring domestic demand and climate change.

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