

## European Solar and Energy Storage Solutions

# Bhutan top solar panels in



## Overview

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Bhutan Solar Initiative Project (BSIP) set up under Royal Command has implemented two Solar PV Projects in Thimphu. 250kW Rooftop Centenary Farmers Market (CMF) and 500kW Ground mounted at Dechencholing. Both projects are grid-tied, meaning the electricity generated is directly fed into the BPC grid, and are without batteries.

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. 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.

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

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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.

Who inaugurated a solar power plant in Bhutan?

4 October 2021: The Chairperson of the National Council of Bhutan, Lyonpo Tashi Dorji, inaugurated the 180 kW grid-tied ground mounted solar photo-voltaic power plant at Rubesa, Wangduephodrang today.

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.

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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### 500KV ground-mounted and grid-tied Solar PV project at ...

"We did the studies on renewable energy management master planning in 2016 and the reports say Bhutan has a capacity for 12 Giga watts of solar energy and 760 MW of wind so we have a lot to tap as there is a lot of opportunity for solar energy solar power to grow in Bhutan. There is a lot of potential and I think this is the right step."

### Promoting renewable energy for a clean and sustainable future

The pilot grid-tied solar project at the UN House will demonstrate solar as a reliable energy source and serve as a key driver of energy source diversification in Bhutan. The UN House in Thimphu inaugurated its 83 KW grid connected rooftop solar, a first of its kind in Bhutan, and the 20 KW solar-thermal space heating projects on 8 March 2021.



### Bhutan Power Inverters and Solar Panels

Bhutan operates on a 230 Vac 50 Hz electrical system, and Power inverters are a great way to attain off-grid, mobile and/or emergency backup power. Inverters harness clean, non-polluting energy unlike fuel-powered generators. AIMS Power inverters, inverter chargers, and solar inverter chargers are here to give power to the people in Bhutan.

## BSIP launches 500kW solar installation

The 393 rooftop panels are expected to generate over 365,000 units of energy annually. Electricity from these installations will be integrated seamlessly into the Bhutan Power Corporation's low-voltage grid, bypassing the need for batteries.



## Top Solar Panel Distributors Suppliers in Bhutan

Saatvik Green Energy actively supports the global effort to energize the world through alternate and greener sources of energy. Top Solar Panel Manufacturers in Europe. SolarWorld. SolarWorld is a German company that is dedicated to the manufacturing and marketing of photovoltaic products all over the world. REC Group. Based in Norway, REC

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## Home

Working with JB Solar has been a transformative experience for us at the Ministry of Energy in Bhutan. Their solar solutions have not only helped us reduce our carbon footprint but have also provided cost-effective and sustainable

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energy solutions for our operations. We commend their dedication to excellence. Back To Top Changzamtog

## International Solar Alliance to help boost Bhutan's Solar

With Bhutan ratifying the Framework Agreement and becoming a full member of the International Solar Alliance (ISA) in October 2022, the momentum of collaboration between the ISA and the Royal Government of Bhutan has picked up pace through implementation of various initiatives supported by the ISA.



## Demo project shows Bhutan's potential in solar energy

The energy department has laid out plans to implement various solar projects including the installation of a small-scale 21-kilowatt solar system in Shangsa village, Lunana. The department is also working to provide three-kilowatt rooftop solar panels to 304 economically disadvantaged households in rural areas.

## Renewable Energy

The Bhutan Foundation's renewable energy program is designed to facilitate equitable socio economic development, through improving access to reliable energy sources for remote communities in Bhutan. Bhutan aims for 500 MW of solar energy by 2025 and 1,000 MW by 2030.

## HOW YOU CAN HELP.



### **Bhutan Trust Fund**

The DSP Solar Initiative (DSP-SI), in its first phase, successfully commissioned a 250 kW rooftop solar power plant at the Centenary Farmers Market on May 29, 2023, and a 500 kW ground-mounted solar power plant at Dechencholing on June 9, 2023.



### **Bhutan launches its first grid-tied solar power plant**

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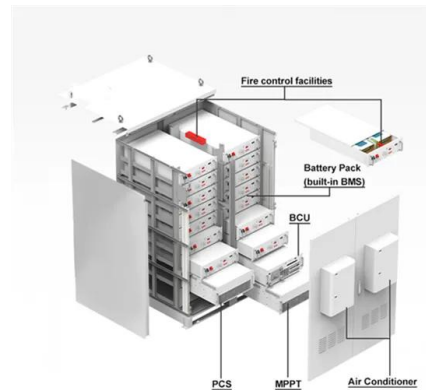
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## First phase of Bhutan's Utility-Scale Solar Project to complete by

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.



## Best Solar Panels: Which One Should You Choose?

Summit Energy via REC Group . Best for warm climates. REC is a European-based solar company that offers a range of solar panels. Its newest series, the Alpha Pure-R, has an impressive temperature coefficient compared to other panels at 0.24%/°C, making them the best choice if you live in a consistently hot area.

## Sephu hosts Bhutan's first mega solar power plant

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## Rooftop solar plant at CFM in Thimphu to generate 360,000 units ...

The status of the project and power generation is



displayed in the control room at CFM. Although the rooftop solar plant is installed at the Centenary Farmer's Market, the electricity generated will be directly fed to the Bhutan Power Corporation's grid which means it will be supplied to the consumers.

## Launch of First Grid-tied Solar Power Plant

The 180kW solar power plant is first of its kind in the country and will trigger transformative changes towards energy source diversification. The community of Rubesa under Wangdue Dzongkhag should be proud to host both solar and wind power plants in the country."



### ESS



## First 180kW grid-tied solar plant in Ruebisa , Kuensel Online

With 464 solar panels, the 180kW plant will produce 263,000 units of energy a year, which is adequate to meet the electricity supply demands for around 90 households. Director of the Department of Renewable Energy (DRE), Phuntsho Namgyal, said that Bhutan was endowed with 12,000 megawatts (MW) of solar power potential.

## Bhutan Solar Initiative Project (BSIP)

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in Thimphu. The first phase of the project completed in May-June, last year.



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

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