



# Evergreen solar Bhutan

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.

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.

Will Bhutan build a mega solar power plant?

One imminent project is the construction of Bhutan's first mega solar power plant, a 17MW plant in Sephu, Wangdue. Today, all of Bhutan's electricity generation is from renewables such as hydropower, wind, and solar. However, 78 percent of the country's energy consumption is supplied by fossil fuels, largely for transportation purposes.

What are Bhutan's upcoming solar projects?

He added that those involved would greatly benefit and take part in Bhutan's upcoming solar projects. One imminent project is the construction of Bhutan's first mega solar power plant, a 17MW plant in Sephu, Wangdue. Today, all of Bhutan's electricity generation is from renewables such as hydropower, wind, and solar.

Will a 180kW solar plant bring Bhutan's utility scale solar power dream closer?

He said that the current pilot project of the 180kW solar plant brings Bhutan's utility scale solar power generation dream closer. The pilot project engaged around 10 engineers and technicians from the DRE and Bhutan Power Corporation (BPC), who carried out the design, construction, installation, and grid integration work.

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.

However, Bhutan is on the brink of a significant change with the Sephu Solar Project. Set to begin operations in early 2025, it will mark a milestone in the country's energy history as the first commercial renewable energy source in Bhutan.

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



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Dechencholing. Both projects are grid-tied, meaning the electricity generated is directly fed into the BPC grid, and are without batteries.

Wangdue--The country's first utility-scale solar farm in Sephu, Wangdue, initially planned at 17.38 megawatts (MW), has increased its capacity to 22.38 MW. The ...

Inching a step closer to Bhutan's aim of energy security through a diversified and sustainable energy supply mix, a 180-kilowatt (kW) grid-tied solar power plant project was inaugurated yesterday at Ruebisa, Wangdue.

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. Located in the village of Yongtru in Sephu Gewog, the solar project now spans 44 acres, reduced from the originally planned 65 acres.

The Sephu Solar Project will be Bhutan's first mega solar power plant and once it is completed, the plant is expected to generate 26.15 million units of energy earning an annual revenue of Nu 132.29 million. The plant will have the capacity to reduce 24,495.5 tonnes of carbon dioxide emissions if the plant-generated energy is exported.

Bhutan Solar Initiative Project (BSIP) aims towards achieving a sustainable energy supply for Bhutan through alternative renewable energy sources of solar grid ...

Wangdue--The country's first utility-scale solar farm in Sephu, Wangdue, initially planned at 17.38 megawatts (MW), has increased its capacity to 22.38 MW. The project is divided into two phases. The first phase, which involves constructing 17.38 MW, is scheduled for completion by March of next year.

Bhutan Solar Initiative Project (BSIP) aims towards achieving a sustainable energy supply for Bhutan through alternative renewable energy sources of solar grid integration. About 60 De-suups have been actively involved in this six-month long project and have gained practical knowledge of installing solar PV systems through hands-on experience.

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Sephu plant will serve as an addition to the 180 kW grid-connected ground-mounted solar photovoltaic power station in Rubesa (near Punakha), which became operational in October 2021. [1] The Sephu plant is currently under construction over an area of 65 acres in Yongtru village, situated in the Sephu Gewog . [ 2 ]



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Sephu plant will serve as an addition to the 180 kW grid-connected ground-mounted solar photovoltaic power station in Rubesa (near Punakha), which became operational in October 2021. The Sephu plant is currently under construction over an area of 65 acres in Yongtru village, situated in the Sephu Gewog. Upon its completion, the overall installed capacity of the facility will reach 22.38 megawatts and is expected to be complete by March 2025. It was initially planned ...

On 28 June, coinciding with the birth anniversary of Guru Rinpoche, Bhutan Solar Initiative Project (BSIP) inaugurated the 500 kW ground-mounted and grid-tied solar PV project at Dechencholing in Thimphu yesterday. The endeavour, installation which covers a ground area of 1.2 acres, is the second of its kind under the royal command.

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