

Can a solar power plant power a household in Bhutan?

Households could be powered for a year by the solar plant at Rubesa, given the average household in Bhutan uses 1,567 kWh of electricity per year. The pilot project, a 180-kilowatt solar photovoltaic (PV) plant was built at Rubesa village, in the western district of Wangduephodrang.

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.

Does Bhutan have a solar energy project?

The project was executed by the Bhutanese government's Department of Renewable Energy in collaboration with the Bhutan Power Corporation, a public utility. It received funding support from the Japanese government and was supported by the United Nations Development Programme in Bhutan. Is this the start of a solar energy rollout in Bhutan?

Why is solar energy a problem in Bhutan?

The pilot solar plant at Rubesa, Wangduephodrang, revealed a need for skilled workers and expertise in Bhutan (Image: Bhutan Power Corporation). An additional problem is that the current low cost of power means people are not incentivised to explore solar energy, according to Adhikari.

How much does solar cost in Bhutan?

In Bhutan, the majority of the population live in rural areas, where energy is subsidised. Even those in cities are charged around BTN 3 (about USD 0.04) per unit (kilowatt-hour). To encourage local people and business to adopt solar power, the Bhutan Electricity Authority is looking to draft 'Feed-In Tariff' regulations.

Why is Bhutan building a solar plant in Rubesa?

Phuntsho Namgyal said that the solar plant in Rubesa is part of the country's plan to diversify its energy sources and enhance energy security. In 2019, the International Renewable Energy Agency carried out a Renewable Readiness Assessment of Bhutan.

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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 ...

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