

Findings reveal that Bhutan's low existing energy tariff of \$0.038/kWh poses challenges to the financial sustainability of solar PV systems, where generation costs range from \$0.04-0.045/kWh. Rural users are willing to adopt feed-in-tariff programs if tariffs are adjusted to \$0.05-0.07/kWh to sustain investments.

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 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.

This study analyses the prospects of a feed-in-tariff program for solar PV systems in Bhutan. It is based on the analysis of a pilot project covering 361 households in rural areas of Bhutan. A mix of qualitative and quantitative methods is applied, which captures the multi-disciplinary variables and generates primary data from the pilot project ...

The implementation of solar PV systems, as a climate mitigation effort, have a significant positive impact on the environment, as it is a form of renewable energy generation with the least climate impact.

Learn about Bhutan's energy challenges and the solution provided by the Sephu Solar Project, the country's first commercial renewable energy initiative.

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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.

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.

International Solar Alliance (ISA) and the Royal Government of Bhutan, a high-level delegation from ISA,



Bhutan solar insight

New Delhi, led by its Director-General, Dr Ajay Mathur, is currently visiting Bhutan to further solidify solar energy initiatives. The ongoing visit marks the signing of the Country

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