



# Thimphu home solar power system

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Where are solar panels installed in Thimphu?

The project included the installation of Rooftop Solar PV at Centenary Farmer's Market (CFM) and Ground Mounted Solar Panels at Dechencholing in Thimphu. The first phase of the project completed in May-June, last year.

What is Bhutan Solar Initiative project (BSIP)?

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.

Are solar PV systems a climate mitigation effort?

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.

How many solar panels are there at CFM & Dechencholing?

The first phase of the project completed in May-June, last year. In total, there are 393 panels at CFM and 784 solar panels at Dechencholing project site, generating approximately, 380000KW hour units in the last 7 months, generating an income of roughly Nu. 2.7 million. One panel can light about 32 light bulbs (of 20watt).

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Nestled in the Himalayas, Thimphu's solar power generation system has become a blueprint for mountainous urban energy solutions. With 280+ sunny days annually, Bhutan's capital leverages its ...

Seasonal solar PV output for Latitude: 27.47, Longitude: 89.6431 (Thimphu, Bhutan), based on our analysis of 8760 hourly intervals of solar and meteorological data (one whole year) ...

The results showed strong solar potential, with an annual generation of 19,336 kWh and a performance ratio of 84%. Scenario analysis revealed that installing PV systems on 50-90% of Thimphu's rooftops ...



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