

Bhutan allows third-party communication base stations to complement wind and solar power



Overview

The wind-solar-diesel hybrid power supply system of the communication base station is composed of a wind turbine, a solar cell module, an integrated controller for hybrid energy management for communication, a battery pack and an outdoor incubator for the battery. As hydropower-rich Bhutan pursues solar to diversify its renewable energy source and maintain carbon neutral status, UNDP is supporting the government in shaping a private sector led energy market so the country can harness its 12 GW solar potential. Titled "Empowering Energy Security & Sustainable Growth," the policy consolidates and supersedes several prior . 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 worldwi The Kingdom of Bhutan is a landlocked South Asian nation situated between India and China. The project directly supports the implementation of this Master Plan.

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Bhutan - Solar Power

By the end of the project, Bhutan will have a fully functional renewable energy market with high levels of investment confidence among ESCOs, capable of covering the country's total 12 GW solar energy

[Bhutan's communication base station wind and solar hybrid facilities](#)

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



[Harnessing Bhutan's solar potential with market-driven solutions](#)

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Bhutan Communications solar Base Station 125kWh

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



[Bhutan's Solar Power Shift: A New Era in](#)



[Bhutan communication base station wind and solar hybrid power](#)

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[Diversifying energy sources beyond hydropower under new energy](#)

While hydropower remains the backbone of Bhutan's electricity generation, the policy emphasizes harnessing other renewable energy sources, such as solar, wind, biomass, geothermal,



[Renewable Energy Security](#)

Discover how Bhutan is embracing solar power to secure its energy future. Learn how this strategic shift to renewable energy enhances national stability.



[Bhutan Accelerates Solar Energy Drive With National Roadmap - BHUTAN TODAY](#)

Unlike conventional energy projects, Bhutan's approach combines large-scale installations with decentralized solutions.



Communication Facilities in Bhutan's Power Sector: Overview

Reliable power system operation and management depend on effective communication facilities, especially in countries like Bhutan, where challenging terrain and

[A Comprehensive Review of Bhutan's National Energy Policy 2025](#)

Drawing from royal addresses by His Majesty Jigme Khesar Namgyel Wangchuck, the policy emphasizes hydropower as a "precious resource" while advocating for expansion into solar,



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