

PIENAAR ENERGY (PTY) LTD

Bhutan Smart Solar System



Overview

Bhutan has launched its first fully solar-powered smart village in the eastern district of Trashigang. The initiative, supported by the Asian Development Bank and Bhutan's Ministry of Energy, includes solar panels, Wi-Fi, smart meters, and water purification units. This landmark initiative positions solar power as a vital step toward achieving energy self-sufficiency by 2025, a goal that aligns with the kingdom's. As Bhutan's glaciers melt and hydropower becomes increasingly vulnerable to climate change, the Kingdom is turning its face toward the sun—literally. With rising temperatures and erratic rainfall threatening its energy lifeline, Bhutan is quietly investing in solar power as a resilient alternative. Druk Green Power Corporation Limited (DGPC) marked a key milestone in its clean energy transition with the signing of a Contract Agreement on Ap, with a Joint Venture of Telecommunications Consultants India Limited, Smart Roof Solar Solution Pvt., and Enerture Technologies Pvt. in April. The agreement involves a 1,000 kW solar plant in Trashigang, with a target of 5,000 kW by 2029 and a goal of 20,000 kW by 2040. This initiative is part of Bhutan's broader strategy to diversify its energy mix and emerge as a regional leader in renewable energy, with an ambitious push to expand solar. A 180-kW grid-tied solar photovoltaic (PV) plant in Wangdue Phodrang district supported by UNDP and the Government of Japan. In a first major step towards diversifying its energy mix, the Himalayan Kingdom initiated a.

Bhutan Smart Solar System



- IP65/IP55 OUTDOOR CABINET
- OUTDOOR CABINET WITH AIR CONDITIONER
- OUTDOOR ENERGY STORAGE CABINET
- 19 INCH

Assessment of solar energy generation potential in Western Bhutan - ...

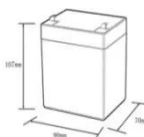
In this paper, efforts have been made to assess the future energy potential from the rooftop solar photovoltaic (PV) systems in Thimphu City. For this study, we designed and simulated a ...

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Sephu Solar Project


The Department of Energy, MoENR announces the commissioning of Phase I (17.38 MWp) of the Sephu Solar Project in Sephu Gewog, Wangdue Phodrang, marking the launch of the ...

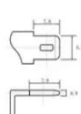
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12.BV6Ah

Nominal voltage (V):12.8
 Nominal capacity (ah):6
 Rated energy (WH):76.8
 Maximum charging voltage (V):14.6
 Maximum charging current (a):6
 Floating charge voltage (V):13.6~13.8
 Maximum continuous discharge current (a):10
 Maximum peak discharge current @10 seconds (a):20
 Maximum load power (W):100
 Discharge cut-off voltage (V):10.8
 Charging temperature (°C):0~+50
 Discharge temperature (°C):-20~+60
 Working humidity: <95% R.H (non condensing)
 Number of cycles (25 °C, 0.5C, 100%doD): >2000
 Cell combination mode: 32700-4s1p
 Terminal specification: T2 (6.3mm)
 Protection grade: IP65
 Overall dimension (mm):50*70*107mm
 Reference weight (kg):0.7
 Certification: un38.3/msds







Bhutan Accelerates Solar Energy Drive With National Roadmap - BHUTAN TODAY

Two pilot projects, each with 180 MW capacity, have already demonstrated solar's potential, particularly during winter when hydropower output drops. A core feature of Bhutan's strategy is linking solar ...

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DGPC embarks on 7.83 MW rooftop solar project - The Bhutanese

This rooftop solar initiative is the first of four subprojects under the Distributed Solar for Public Infrastructure Project, which aims to deploy 35 MW of distributed solar PV systems across ...



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Bhutan Rolls Out First Solar-Powered Smart Village

Bhutan has launched its first fully solar-powered smart village in the eastern district of Trashigang. The initiative, supported by the Asian Development Bank and Bhutan's Ministry of ...

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Harnessing Bhutan's solar potential with market-driven solutions

As a starting point, the project will establish a private sector driven 30 MW solar energy through blended finance mechanisms and a series of policy reforms. This is a significant step ...



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Bhutan's Solar Energy Roadmap: A Path to Energy Security

HEAT DISSIPATION

Cold aisle containment,
making optimal refrigeration effect:



Developed by the Bhutan Energy Research and Development Center (BERDC) with support from the International Solar Alliance (ISA), the roadmap focuses on deploying large-scale ...

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DGPC signs contract agreement for rooftop solar PV projects

The systems will be installed on 267 public buildings in Thimphu as well as DGPC infrastructure at the Basochhu and Chhukha Hydropower Plants. The project, valued at ...



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Bhutan Smart Solar Market (2025-2031) , Value & Share

6Wresearch actively monitors the Bhutan Smart Solar Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue analysis, and forecast outlook.

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Bhutan's Biggest Solar Project Yet: A Giant Leap Toward Energy ...

This project will be Bhutan's first and largest grid-connected utility-scale solar power plant, marking a significant leap in the country's renewable energy ambitions. Beyond Jamjee, several other large ...

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