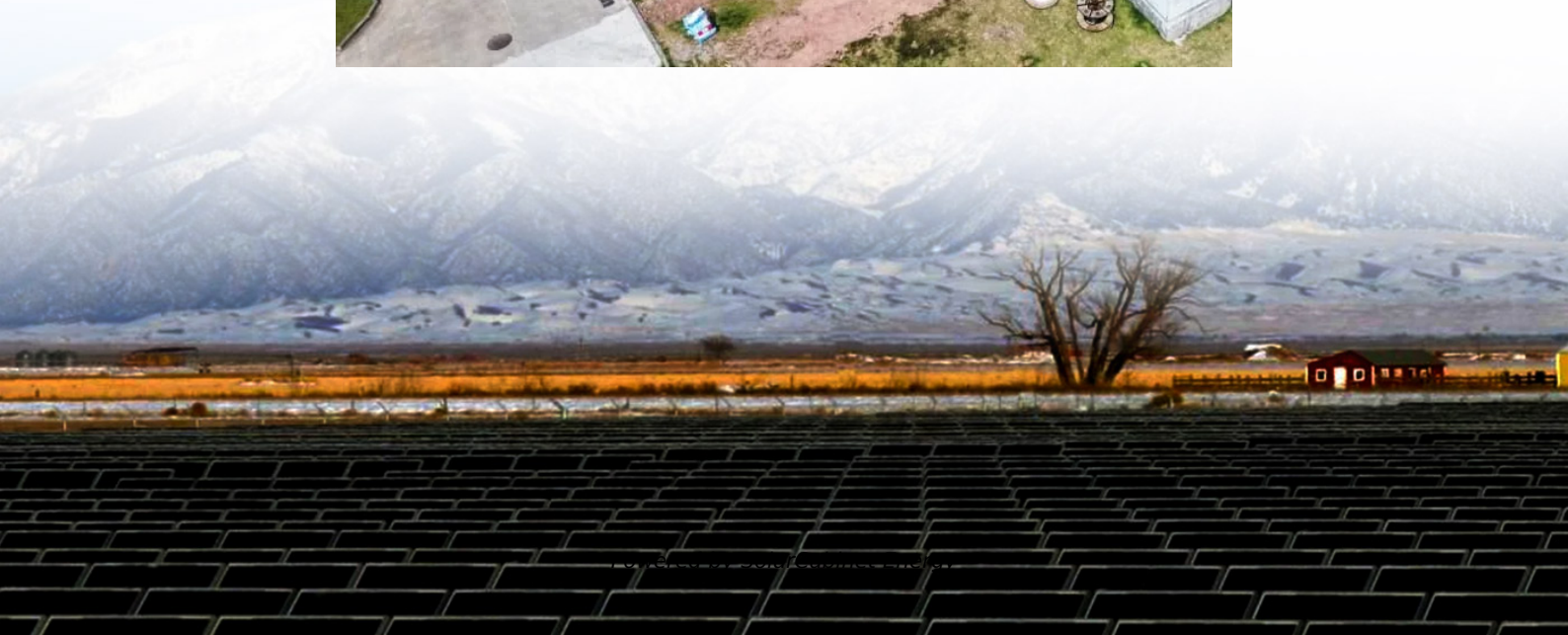


Bhutan s new outdoor power supply market





Overview

How much solar power does Bhutan have?

Solar Energy According to the Renewable Energy Resource Assessment 2015, Bhutan has a theoretical potential of 3,706,328 MW for solar photovoltaic power generation based on solar irradiance.

What is Bhutan's energy supply?

Bhutan's energy supply primarily relies on electricity, fuel-wood, coal, and diesel. Electricity is the largest contributor, with a shift towards increased usage over the years. Fuel-wood usage has decreased, while bio-gas, solar energy, and limited-scale wind energy have gained traction as alternative sources.

Which power plants are used in Bhutan?

In addition to hydropower, the country relies on diesel generators owned by Bhutan Power Corporation (BPC), contributing 8.93 MW to the overall capacity. Furthermore, the grid is connected to solar photovoltaic (PV) power plants with a capacity of 724 kWp and wind power plants with a capacity of 600 kW.

How has the power sector changed in Bhutan?

Over the last ten years, there have been significant transformations in the Power Sector of Bhutan, both in its structure and policies, driven by ongoing reform processes. Bhutan has a substantial hydropower potential, which is estimated to be 37,000 MW. Out of this, 33,000 MW is considered to be technoeconomically feasible.

How much power does Bhutan use?

The majority of this capacity is derived from hydropower plants, accounting for 2,334.1 MW, including 8.1 MW from other embedded-hydro sources. In addition to hydropower, the country relies on diesel generators owned by Bhutan Power Corporation (BPC), contributing 8.93 MW to the overall capacity.



Does Bhutan have a hydropower sector?

Bhutan's Hydropower Sector plays a crucial role in generating electricity, capitalizing on its abundant hydropower resources. The country has a considerable hydropower potential, estimated at 37,000 MW, of which 33,000 MW is techno-economically viable.



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[Distributed Solar for Public Infrastructure Project: Sector ...](#)

Bhutan has been a power surplus country on an annual basis, but there is a significant shift in seasonal power situation in Bhutan due to the recent changes in surging electricity demand ...

[Bhutan Power Supply Market \(2024-2030\) . Trends, Outlook](#)

Historical Data and Forecast of Bhutan Power Supply Market Revenues & Volume By Power Supply With Medium Output (500~1,000 W) for the Period 2020-2030



[Bhutan's domestic electricity consumption to outstrip production ...](#)

Bhutan plans to diversify its energy portfolio by developing alternative renewable sources such as solar, wind, geothermal, and biomass. Initiatives include a 500 MW utility ...



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