

Bhutan's wind and solar complementary base station layout planning



IP65/IP55 OUTDOOR CABINET

OUTDOOR MODULE CABINET

OUTDOOR ENERGY STORAGE CABINET

19 INCH

Overview

What is Bhutan's integrated energy strategy?

The objectives driving this integrated strategy are clear: Guarantee long-term energy security; fuel sustainable socio-economic growth; enhance resilience against climate change; ensure continued access to reliable and competitive energy; and position Bhutan in the forefront of clean energy development.

Could hydropower be the future of energy in Bhutan?

While hydropower is likely to remain an important component of the energy sector and economy of Bhutan, renewable energy technologies such as solar PV, wind, bioenergy and small hydropower could offer opportunities to diversify the country's energy mix and help address rising energy demand.

What is a solar project in Bhutan?

Project Goals and Approach to Transformational Change: The project aims to install 30 MW of solar PV and strengthen the regulatory environment to accelerate Bhutan's renewable energy market, fully realising its solar energy plan of 1000 MW as planned by the government in the current five-year plan (2024-2028).

Is Bhutan a good country for solar & wind energy?

Despite the mountainous terrain, the country is blessed with good solar and wind resources in several regions. As per the Renewable Energy Management Master Plan (2016), Bhutan could produce 12 gigawatts (GW) of solar and 760 megawatts (MW) of wind energy in technical terms.

How is the energy sector governed in Bhutan?

The energy sector of Bhutan is governed, planned and co-ordinated by two key ministries: the Ministry of Economic Affairs (MOEA) and the Ministry of Agriculture and Forests (MoAF).

How much wind energy does Bhutan have?

A DRE-MOEA (2016b) study that accounts for these limitations found that Bhutan can easily deploy close to 760 MW of wind energy, with the northern dzongkhag (district) of Wangdue accounting for close to 19% of this potential, followed by the southern dzongkhags of Chukka (12%) and Dagana (10%) (DRE-MOEA, 2016c). Figure 6. Solar map

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