

Why do we need a renewable base in Bhutan?

Recently, the need to expand renewable base in Bhutan's energy system has felt strongly, firstly to diversify the energy sources for enhancing energy security, and secondly, because of an unequivocal consensus from the global climate scientists about the potential threat on the energy resources, particularly hydropower due to climate change.

Why is energy important in Bhutan?

Energy in Bhutan has been a primary focus of development in the kingdom under its Five-Year Plans. In cooperation with India, Bhutan has undertaken several hydroelectric projects whose output is traded between the countries.

Why is hydropower a national priority in Bhutan?

Hydropower is accorded with highest national priority due to availability of huge hydropower potential favored by rugged geographical terrain, and considering that the resource is clean. ARES are promoted as a means to diversify energy supply mix as Bhutan has reasonable alternative energy resource endowment.

Why is Bhutan not able to secure its energy requirement?

Despite availability of diverse source of clean energy resources in excess of national demand, both in terms of potential and installed capacity, Bhutan has not been able to secure its energy requirement, especially in lean season. Bhutan imports power every winter months, when the demand is at peak and generation is at lowest point.

Does Bhutan import electricity?

Bhutan has regularly imported electricity during the lean season with the import quantum progressing substantially in the recent years. Commencing 2022 (January to March), Bhutan has resorted to purchasing power from the neighboring energy exchange, and the import is likely to grow in the coming years.

What drives Bhutan's energy policy?

Examining from energy security perspective, Bhutan's energy policies seem to be driven by natural resource endowments, rather than national strategy. Hydropower is accorded with highest national priority due to availability of huge hydropower potential favored by rugged geographical terrain, and considering that the resource is clean.

Bhutan is soon to submit its own energy compact. For Bhutan to fully realize its renewable energy potential, it must have enabling policies that are forward thinking, encourage innovation, and provide fiscal and non-fiscal incentives for investing in renewable energy. Energy efficiency must also be greatly improved.

developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total

primary energy supply. Energy trade includes all commodities in Chapter 27 of the Harmonised System (HS). Capacity utilisation is calculated as annual generation divided by year-end capacity x 8,760h/year. Avoided

These developments, particularly climate change impact on renewable resources, hydropower, which is the backbone of Bhutan's energy sector, faces vulnerability issue. Given these emerging challenges, this paper presents preliminary analysis of Bhutan's energy policies from energy security perspective in the face of climate change.

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1 ??&#0183; In a landmark event yesterday, His Majesty the King of Bhutan officially appointed Ming Z. Mei, Co-Founder and CEO of global powerhouse GLP, as the first-ever Founding Member ...

