

Why is energy security important in Bhutan?

Energy security is at the heart of the energy policy. Achieving energy security, however, is difficult as energy sector faces challenges due to resource depletion and climate change. It is becoming a key concern for Bhutan due to perpetual demand growth including climate change presenting formidable challenge.

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.

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.

Should Bhutan diversify its energy sources?

In the face of climate change and the need for enhanced energy security, the business case for Bhutan to diversify its energy sources, especially by tapping into alternative renewable energy, is compelling. Bhutan is yet to realize its full potential in terms of renewable energy.

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.

Who governs the energy sector in Bhutan?

Bhutan's energy sector is governed by two apex institutions, viz, Ministry of Economic Affairs (MoEA) and the Ministry of Agriculture and Forests (MoAF) (Department of Energy, 2009).

The pilot 180kW solar photovoltaic (PV) project is a grid-tied, ground-mounted system and employs local contractors and workers. The project is innovative and transformational, and will contribute towards enhancing Bhutan's energy ...

Recognizing the criticality of the energy security and vulnerability of the energy sector due to climate change,

the paper analyzed Bhutan's existing energy policies from ...

2 ???&#0183; First of all, Tata Power recently partnered with Bhutan's only electricity generation utility, Druk Green Power Corporation, to build almost 5,000 megawatts (MW) of clean energy ...

The project is innovative and transformational, and will contribute towards enhancing Bhutan's energy security, help generate green services and jobs, and demonstrate viability of solar energy. It is also expected to catalyse additional ...

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We distinguished four dimensions of energy security that relate to the availability, accessibility, affordability and acceptability of energy and classified indicators for energy security...

Because Bhutan is heavily dependent on rivers--through hydropower--for their own development and to generate revenue from electricity-hungry India, shifts in climate are directly tied with international relations. The ...