

Can Bhutan achieve long-term energy security through a diversified supply mix?

This Renewables Readiness Assessment (RRA) shows how Bhutan could achieve long-term energy security through a diversified and sustainable supply mix. With power-generation costs falling steadily and technologies maturing, the business case for a diverse mix of renewables has never been stronger.

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 energy security important in Bhutan?

Energy security for economic prosperity, social progress and the well being of Bhutanese.

How can energy pricing improve energy efficiency in Bhutan?

Reforms to energy pricing can help level the playing field for renewable energy technologies, thus incentivising their uptake in both on-grid and off-grid settings. In the specific case of Bhutan, improving energy efficiency is a fundamental and cost-effective first step towards integration of renewables in all sectors.

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 electricity does Bhutan generate?

Of-grid hydropower and solar home lighting systems accounted for a very small percentage of electricity generation in 2014 (Figure 1). Bhutan's installed power generation capacity in 2017 was 1.6 gigawatts (GW), representing only 6% of its techno-economic feasible hydropower potential.

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