

# Bhutan target energy solutions

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.

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.

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 does Bhutan use solar power?

To meet its annual power needs, Bhutan uses solar power alongside hydropower in a complementary manner. This promotes climate adaptation by diversifying the power generation portfolio, a systemic approach that builds resilience against climate change impacts.

Are solar water heaters a good idea in Bhutan?

Heating is a major source of energy consumption in Bhutan and efforts have been made to encourage the uptake of solar water heaters. Although heat-pumps<sup>4</sup> are popular in developed countries, they are still a new concept in Bhutan, and only recently have incentives such as tax exemptions been considered to promote them.

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.

The first-ever EIB project in Bhutan, one of just three net carbon-negative countries in the world, supports new solar photovoltaic and hydropower schemes under the EU's Global Gateway initiative. The 30-year ...

NRL's initiatives, including the launch of biofuel and green hydrogen projects, underscore its commitment to sustainable energy solutions and align with its vision of achieving net-zero emissions by 2038. This development positions NRL as a regional powerhouse, driving economic and environmental progress for the Northeast, and is expected to ...



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In a landmark move to bolster sustainable energy, Bhutan has inked a Memorandum of Understanding (MoU) with India's Reliance Group during the Bhutan Innovation Forum. The agreement, signed between Druk Holding and Investments Ltd. (DHI) and Reliance Group, paves the way for the development of 1.2 gigawatts (GW) of renewable energy projects ...

Lyonpo Lekey Dorji, Finance Minister of the Kingdom of Bhutan, stated, "As Bhutan strives to maintain its carbon-negative status amidst rising global challenges, this partnership not only strengthens Bhutan's renewable energy sector, but also contributes to the broader regional and global effort in combating climate change. We welcome the ...

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solutions. The purpose of this report is to provide deeper insight into the challenges of clean energy access and potential solutions in Bhutan. The information elicited through these data collection efforts will be important for countries as they consider developing, adopting, and evaluating policies that accelerate the transition

Bhutan is a small developing country, and tremendous changes have been seen in the energy demand in the

last few decades. The residential sector accounts for 33% of the total energy consumption of 650,220 tons of oil equivalent (IRENA, 2019). Energy sources used for lighting, cooking, heating, and appliances have changed over the years.

The country's potential to diversify energy solutions is high and multi-fold with opportunities to create green jobs along various value chains. The project will support the establishment of a 200KW solar farm at Rubesa, Wangdue Phodrang district in partnership with the Department of Renewable Energy and Bhutan Power Corporation Limited. This ...

out for Bhutan's first National Adaptation Plan (NAP) focusing on energy, water, agriculture, transport, forest & biodiversity and human health. The mitigation strategy follows the Intergovernmental Panel on Climate Change (IPCC) categories of Energy, IPPU, AFOLU and Waste with a combined cumulative emission reduction target of 3785.72 GgCO

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~ To strengthen energy security and accelerate the energy transition in the region, supporting India's 500 GW clean energy target~ ~Projects encompass 2,000 MW of hydro, 2,500 MW of ...

1.6 At the same time, when considering Bhutan's energy system as a whole, rising ... transport technology solutions can help minimize carbon emissions and growing fuel consumption. ... Set realistic target for RE in the energy-mix; f) Support and promote Research & Development in RE technologies with long ...

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