



# Energy independence bhutan





## Overview

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With Bhutan's techno-economically viable hydropower potential at 23,000 MW (from 90 sites outside ecological parks), solar at 12,000 MW, wind at 800 MW, and biomass at 2,700 GWh annually, the NEP 2025 sets ambitious targets: 25,000 MW total generation capacity by 2040 . With Bhutan's techno-economically viable hydropower potential at 23,000 MW (from 90 sites outside ecological parks), solar at 12,000 MW, wind at 800 MW, and biomass at 2,700 GWh annually, the NEP 2025 sets ambitious targets: 25,000 MW total generation capacity by 2040 . Bhutan's National Energy Policy 2025 (NEP 2025), released in June 2025 by the Ministry of Energy and Natural Resources (MoENR), represents a pivotal shift in the country's energy strategy. Titled "Empowering Energy Security & Sustainable Growth," the policy consolidates and supersedes several prior. "Hydropower is considered our nation's most precious resource that belongs to all the people of Bhutan. " "I want to emphasise three immediate priority areas that will support the Gelephu project: Energy, Connectivity, and Skills. First, we need to further expand our energy sector. Hydropower has long underpinned Bhutan's economy, contributing significantly to revenue. 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. The combined ventures — including Adani's 570 MW Wangchhu, Tata's 600 MW Kholongchhu, and Reliance's 500 MW solar farm — are set to. The National Energy Policy 2025 introduces a comprehensive strategy for Bhutan to diversify its energy mix beyond hydropower in response to rising domestic demand, and the need for long-term energy security.



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### [25,000 MW by 2040: Bhutan's Bold Energy Policy 2025 and ...](#)

By setting ambitious targets for hydropower expansion, embracing pumped storage, diversifying into solar and other renewables, and fostering strategic partnerships, Bhutan aims to ...

### **Diversifying energy sources beyond hydropower under new energy ...**

The National Energy Policy 2025 introduces a comprehensive strategy for Bhutan to diversify its energy mix beyond hydropower in response to rising domestic demand, and the need for ...



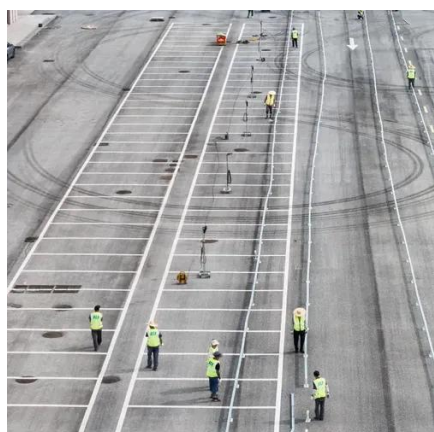
### [New national energy policy charts bold path to 2040](#)

While continuing to honour hydropower, the policy moves decisively toward renewable diversification, energy security, climate resilience, and economic transformation to meet Bhutan's ...



## **Energy Sector in Bhutan**

Public-Public/Private Partnership (PPP): PPP between Bhutanese Public Sector and Foreign Public/Private Sector. Contd .



## Energy in Bhutan

Overview  
Government agencies and operations  
Production and consumption  
History  
External links

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. Though Bhutan's many hydroelectric plants provide energy far in excess of its needs in the summer, dry winters and increased fuel demand makes the kingdom a marginal net importer of e...

### Bhutan's Clean Energy Boom and Future Power Outlook

Hydropower will remain the backbone, but solar and wind will fill critical seasonal gaps and support domestic electrification. The result? A more resilient, self-sufficient energy ecosystem ...



## National Energy Policy 2025

The policy targets 25,000MW of installed capacity by 2040 - 20,000 MW of hydropower and 5000 MW solar, to enable Bhutan's ambition of becoming a "High-income GNH Economy by ...



## A Comprehensive Review of Bhutan's National Energy Policy 2025

Bhutan's National Energy Policy 2025 is a visionary document that balances tradition with innovation, safeguarding hydropower while embracing renewables for a sustainable future.



## NATIONAL ENERGY POLICY 2025

For decades, the roaring and cascading waters of our majestic rivers have been the life-blood of our nation, not just sustaining fresh eco-systems and communities, but generating clean energy and ...

## Energy in Bhutan

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## Analysis of Bhutan's energy policies



## **in relation to energy security and**

Given these emerging challenges, this paper presents preliminary analysis of Bhutan's energy policies from energy security perspective in the face of climate change. In doing so, key ...





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