



सत्यमेव जयते



# **Transmission Plan for Integration of over 900 GW Non-Fossil Fuel Capacity by 2035-36**

Government of India

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**March 2026**

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घनश्याम प्रसाद  
अध्यक्ष तथा पदेन सचिव भारत सरकार  
**GHANSHYAM PRASAD**  
Chairperson & Ex-officio Secretary  
To the Government Of India



केन्द्रीय विद्युत प्राधिकरण  
भारत सरकार  
विद्युत मंत्रालय  
सेवा भवन, आर.के. पुरम  
नई दिल्ली-110066  
**Central Electricity Authority**  
Ministry of Power  
Sewa Bhawan, R. K. Puram  
New Delhi-110066

## **FOREWORD**

India's commitment to a sustainable energy transition is one of the most ambitious global endeavours of our time. As the nation targets a non-fossil fuel installed capacity of 500 GW by 2030, and eyes even greater milestones by 2035-36 for long term sustainable development, the necessity of a robust and forward-looking transmission infrastructure has now become very critical. The challenge of integrating renewable energy (RE) lies in its unique nature: solar and wind projects have significantly shorter gestation periods compared to the transmission systems required to evacuate their power. Recognizing this gap, a meticulous plan for integration of over 900 GW of non-fossil fuel capacity has been prepared well in advance.

Generation expansion planning studies indicate that the likely installed capacity (IC) in the country may reach about 1121 GW by 2035-36, out of which about 786 GW is expected to be from non-fossil fuel-based sources. However, the transmission system has been planned for over 900 GW non-fossil fuel capacity considering the implementation challenges in transmission system. The implementation decision has to be taken depending on the progress of development of RE integration. This report serves as a strategic roadmap to ensure that our power grid is not only prepared for this massive influx of clean energy but is also resilient enough to support India's burgeoning economic growth.

This report provides essential visibility for RE developers, grid operators, and policymakers, aligning generation capacity additions with the necessary infrastructure. It is a major step toward achieving the Government of India's energy transition goals and ensures that our journey toward a greener future is backed by a world-class transmission network.

As a testament to our collective resolve to build a resilient, carbon-conscious, and energy-secure nation for generations to come, Central Electricity Authority has prepared this report titled "Transmission Plan for Integration of over 900 GW Non-fossil Fuel Capacity by 2035-36". The report presents a roadmap for enabling continuous growth of Renewable Energy (RE) capacity. It is a blueprint for India's green industrial revolution. This report will serve as a useful reference for utilities, developers, and provide a structured framework for transmission system infrastructure required for non-fossil capacity integration by 2035-36, thereby strengthening India's clean, secure, and sustainable energy future. I thank Shri V.K. Singh, Member (Power System, CEA), Ms. Ammi Ruhama Toppo, Chief Engineer (PSPA-1, CEA), officers of Central Electricity Authority (CEA), and all the stakeholders i.e. MNRE, CTUIL, Grid India, State Power utilities, etc. for their sincere efforts in preparing this report.

  
**(Ghanshyam Prasad)**

New Delhi  
16 March 2026