



Green Energy Corridor

For Prelims: Features of the Green Energy Corridor Scheme, Initiatives for the Green Energy

For Mains: India's initiatives for renewable energy, India's renewable energy targets and associated challenges

Why in News

Recently, the Cabinet Committee on Economic Affairs approved the scheme on **Green Energy Corridor (GEC) Phase-II for Intra-State Transmission System (InSTS)**.

Key Points

▪ GEC-1:

- Phase 1 of the Green Energy Corridor is already under implementation in Gujarat, Andhra Pradesh, Karnataka, Himachal Pradesh, Maharashtra, Madhya Pradesh, Tamil Nadu, and Rajasthan.
- It is working for the grid integration and power evacuation of about 24GW of Renewable Energy.

▪ GEC-2:

- It will **facilitate grid integration and power evacuation of approximately 20 GW of Renewable Energy (RE) power projects** in seven States namely, Gujarat, Himachal Pradesh, Karnataka, Kerala, Rajasthan, Tamil Nadu and Uttar Pradesh.
- The transmission systems **will be created over a period of five year from Financial Year 2021-22 to 2025-26**.
- It is targeted to be set up with a total estimated cost of Rs. 12, 031 crores, and the **Central Finance Assistance (CFA)** will be 33% of the project cost.
 - The CFA will help **in offsetting the Intra-State transmission charges and thus keep the power costs down.**

▪ Objectives:

- It aims at **synchronizing the electricity produced from renewable resources, such as wind and solar, with the conventional power stations in the grid.**
- It aims to achieve the **target of 450 GW installed RE capacity by 2030.**
- The objective of the GEC is to **evacuate approx. 20,000 MW of large-scale renewable power and improvement of the grid** in implementing states.

▪ Significance:

- It will contribute to the **long-term energy security of India and will promote ecologically sustainable growth** by reducing carbon footprint.
- It will facilitate in **generating large direct and indirect employment opportunities** for both the skilled and unskilled personnel.

Initiatives related to Green Energy

- [International Solar Alliance](#)

- [One Sun, One World, One Grid \(OSOWOG\).](#)
- [National Solar Mission.](#)
- [Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyaan \(PM KUSUM\)](#)
- Atal Jyoti Yojana
- Suryamitra Skill Development Programme
- Solar Park Scheme and Grid Connected Solar Rooftop Scheme
- [Rewa Solar Power Plant.](#)
- [National Wind-Solar Hybrid Policy 2018.](#)
- [Hydrogen Based Fuel Cells Vehicles.](#)

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