

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 2547
ANSWERED ON 11/12/2024

GREEN ENERGY CORRIDOR

2547. SMT. SHOBHANABEN MAHENDRASINH BARAIYA

Will the Minister of New & Renewable Energy be pleased to state:

- a) the details of measures being taken for transmission of electricity of the States having high renewable energy installed capacity under Green Energy Corridor Phase-I;
- b) the status of the scheme and the expected time of completion of the projects, State-wise;
- c) the funds sanctioned, released and spent for the said purpose till date;
- d) the details of States identified under Green Energy Corridor (GEC) Phase-II;
- e) the details of aims and objectives of the scheme GEC Phase-II; and
- f) the details of innovative technologies being employed in the country to facilitate renewable energy transmission?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a) The Green Energy Corridor (GEC) Phase-I is being implemented by 8 renewable rich States of Andhra Pradesh, Gujarat, Himachal Pradesh, Karnataka, Madhya Pradesh, Maharashtra, Rajasthan and Tamil Nadu in order to facilitate integration of approx. 24 GW RE power. The scheme includes setting up of 9767 ckm (circuit kilometre) of transmission lines, and substations of total capacity of 22689 Mega Volt-Amperes (MVA) with central grant of 40% of the project cost or award cost whichever is lower.

(b) & (c) GEC Phase-I has been completed in State of Madhya Pradesh, Rajasthan, Tamil Nadu and Karnataka. Completion date for GEC Phase-I for States of Andhra Pradesh, Himachal Pradesh, Maharashtra is December 2024 and for State of Gujarat is March 2025. Funds sanctioned and released under GEC Phase-I up to 30.11.2024 is placed at **Annexure**.

(d) The States covered under Intra State Transmission System (InSTS) GEC Phase-II are Gujarat, Himachal Pradesh, Karnataka, Kerala, Rajasthan, Tamil Nadu and Uttar Pradesh.

(e) InSTS GEC Phase-II, scheme will help to create intra-state transmission infrastructure required for power evacuation of Renewable Energy (RE) power projects of approx. 20 GW capacity in 7 implementing States of Gujarat, Himachal Pradesh, Karnataka, Kerala, Rajasthan, Tamil Nadu and Uttar Pradesh.

(f) The innovative technologies being employed in the country to facilitate renewable energy transmission, inter-alia, include construction of Extra High Voltage AC lines, deployment of Voltage Source Converter based High Voltage Direct Current systems for long distance transmission and grid stability. Establishment of Renewable Energy Management Centres with Artificial Intelligence based RE forecasting, and installation of dynamic compensation devices, which aim to enhance grid resilience and stability, improve power quality and reliability.

ANNEXURE referred to in part (b) & (c) of the reply to Lok Sabha Unstarred Question No. 2547 to be answered on 11.12.2024 regarding “Green Energy Corridor”

Status of funds released under Green Energy Corridor Phase-I

		Eligible Central Grant (Rs. crore)	Released (Rs. crore)
1.	Andhra Pradesh	361.25	290.61
2.	Gujarat	746.40	544.08
3.	Himachal Pradesh	237.28	206.66
4.	Karnataka	326.50	326.50
5.	Madhya Pradesh	655.09	624.24
6.	Maharashtra	67.49	46.76
7.	Rajasthan	241.35	241.35
8.	Tamil Nadu	529.34	524.30
	Total	3164.70	2804.50