GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 952
ANSWERED ON 30/07/2024

PROJECTS TO PROMOTE RENEWABLE ENERGY

952. SHRI KESRIDEVSINH JHALA

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

(a) the details of the initiatives taken by Government to promote reliable grid integration, forecast, scheduling and dispatch for large scale grid connected renewable energy projects;

(b) the details of the strategies for long term transmission planning for renewable energy to be implemented in Gujarat and Maharashtra?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a) Various initiatives taken by Government to promote reliable grid integration, forecast, scheduling and dispatch for large scale grid connected Renewable Energy(RE) projects, inter-alia, include:

- Implementation of Intra-State transmission systems (InSTS) and Inter-State transmission systems (ISTS) for evacuation of Renewable Energy (RE), including Green Energy Corridor (GEC) Scheme.
- Preparation and implementation of transmission plan for integration of more than 500 GW RE capacity by 2030.
- Approval of 'Viability Gap Funding for Battery Energy Storage System (BESS)' scheme for 4000 MWh of BESS to help in integration of large-scale RE in the grid.
- Setting up of Regional Energy Management Centers (REMCs) for better forecasting of RE and to assist grid operators to manage variability and intermittency of RE.
- Introduction of Real-Time Market (RTM) to facilitate the distribution licencee to purchase power from market nearer to real time to maintain load – generation balance.

(b) Transmission plan for integration of more than 500 GW RE capacity by 2030 at National level has been prepared and the transmission schemes associated with RE generation in State of Gujarat and Maharashtra are at various stages of implementation which, inter-alia, include :

- In Gujarat, transmission System (ISTS) for 38 GW RE capacity is under implementation/under bidding and transmission system (ISTS) for evacuation of 22 GW RE capacity has been planned and would be taken up for implementation commensurate with the RE capacity addition.
- In Gujarat , Under GEC Intra State Transmission System (InSTS) Phase-I, 1908 ckm transmission lines and 7980 MVA capacity substations were sanctioned to Gujarat for evacuation of approx. 4000 MW of RE within the State. As on 30.06.2024, 1636 ckm of lines have been constructed and 7980 MVA substations have been charged. Under GEC (InSTS) Phase II, 2470 ckm of transmission lines and 7460 MVA capacity substations by FY 2025-26 were sanctioned to Gujarat for evacuation of renewable energy power of approx. 5100 MW capacity in the State. As on 30.06.2024, out of 27 packages, GETCO has tendered 20 packages of which only 16 have been awarded.
- In Maharashtra, transmission system (ISTS) for 7.75 GW RE capacity, is under implementation. Under GEC InSTS Phase-I, 771 ckm transmission lines were sanctioned to Maharashtra for evacuation of approx. 1860 MW of RE within the State. As on 30.06.2024, 704 ckm of transmission lines have been constructed. No projects were sanctioned under GEC (InSTS) Phase-II for Maharashtra.

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