GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 3049
ANSWERED ON 11.03.2026

SHARE OF RENEWABLE ENERGY IN RAJASTHAN

3049. SHRI DUSHYANT SINGH

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) the current share of renewable energy in Rajasthan's installed capacity and generation mix, source-wise including solar, wind, biomass and small hydro;
(b) the capacity of commissioned transmission systems in the said State for evacuation of renewable energy along with the details of Inter-State Transmission (ISTS) and Intra-State Transmission System (InSTS) projects and the renewable capacity already integrated and under implementation;
(c) the present status of Phase-I of the Inter-State Transmission Line under the Green Energy Corridor;
(d) the extent to which Battery Energy Storage Systems (BESS) are being integrated at grid and project levels to address intermittency and enhance grid stability; and

(e) the roadmap for further strengthening transmission and storage infrastructure to support Rajasthan's role in India's renewable energy targets for the year 2030?

ANSWER
THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a) As on 31.01.2026, the total installed power capacity in the State of Rajasthan is 57,424.89 MW out of which renewable energy installed capacity is 43,798.06 MW (i.e. 76.27%) which includes 37,925.04 MW solar power, 5229.15 MW wind power, 136.15 MW biomass power, and 23.85 MW small hydro power.

(b) As per the information received from Ministry of Power, the details of Inter State Transmission System (ISTS) under Tariff based competitive bidding (TBCB) Mode and Intra State Transmission System (InSTS) commissioned, and under implementation transmission projects in the State of Rajasthan are given as under:

(i) ISTS:
- 6623 ckm (circuit kilometres) of transmission line along with 7500 MVA (Mega Volt-Ampere) of transformation capacity (220 kV & above) has been commissioned.
- 16522 ckm of transmission line along with 100000 MVA of transformation capacity (220 kV & above) is under implementation.

(ii) InSTS:
- 24343 ckm of transmission line along with 64770 MVA of transformation capacity (220 kV & above) has been commissioned.
- 4152 ckm of transmission line along with 15335 MVA of transformation capacity (220 kV & above) is under implementation.

(c) There is no Inter-State Transmission System project under GEC Phase-I in the State of Rajasthan.

(d) As per the information received from Rajasthan Renewable Energy Corporation Limited (RRECL), in Rajasthan, 6000MWh standalone Battery Energy Storage Systems (BESS) with solar project has been awarded.

(e) Ministry of Power has informed that addition of transmission system is constantly being implemented and planned in the ISTS and intra-state network in Rajasthan for evacuation of renewable energy from the projects located in the State of Rajasthan.

Intra-state transmission system (InSTS): Rajasthan Rajya Vidyut Prasaran Nigam Limited (RVPN) (State Transmission Utility in Rajasthan) is implementing 659 ckm of transmission lines and 2191 MVA capacity substations for evacuation of renewable energy of 2478 MW capacity in the State under Green Energy Corridor Intra-State Transmission System Phase-II (GEC-II InSTS) scheme.

Inter-State transmission system (ISTS): To facilitate renewable energy evacuation, the transmission system for evacuation of 73 GW renewable energy capacity from Rajasthan has been planned and it is in various stages of implementation. The details of transmission schemes are given below:

i. Transmission system for Ultra-Mega Solar Power Projects (2.5 GW) – Commissioned
ii. Transmission system under Phase-I REZ (8.9 GW) – Commissioned
iii. Transmission system under Phase-II SEZ (8.1 GW) – Part Commissioned
iv. Transmission system under Phase-III REZ (20 GW) – Under implementation
v. Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-1: 7.7GW) (Bikaner Complex) – Under Implementation
vi. Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-2: 5.5 GW) (Jaisalmer/Barmer Complex) – Under Implementation
vii. Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-3: 6 GW) (Bikaner Complex) – Under Implementation
viii. Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-4: 3.5 GW) (Fatehgarh/Barmer Complex) – Under implementation
ix. Transmission system for evacuation of power from Rajasthan REZ Ph-V (Part-1: 4 GW) [Sirohi/Nagaur] Complex – Under Implementation
x. Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-5: 6 GW) [Barmer Complex] Barmer-II: 6 GW (Solar) (LCC Configuration) - Under Bidding

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