

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 1098
ANSWERED ON 12/12/2023

CAPACITY SURVEY OF NEW AND RENEWABLE ENERGY PROJECTS

1098. SHRI NEERAJ DANGI

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

- (a) whether Government has conducted any survey to enhance the capacity of new and renewable energy projects in the country, particularly in Rajasthan, if so, the details thereof;
- (b) the total number of projects approved State/UT-wise in the country including Rajasthan during the last two years and the current year; and
- (c) the details of the percentage of annual requirement of energy met by new and renewable energy in the country and the manner with which it is being met?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER
(SHRI R.K. SINGH)

(a): As per various surveys, the estimated potential for various renewable energy (RE) sources in the country, including the State of Rajasthan, is as follows:

RE Source	Estimate Potential (MW)	
	Rajasthan	Total
Wind (at 150 meter hub height)	284250	1163855
Small Hydro	52	21134
Large Hydro	411	133410
Solar	142310	748990
Bio Energy	1300	42265
Total	428323	2109654

Government of India has undertaken a number of steps to enhance the capacity of new and renewable energy projects in the country, including in the State of Rajasthan, these inter alia include:

- Permitting Foreign Direct Investment (FDI) up to 100 percent under the automatic route,
- Waiver of Inter State Transmission System (ISTS) charges for inter-state sale of solar and wind power for projects to be commissioned by 30th June 2025,
- Specifying the minimum share of consumption of non-fossil resources by designated consumers, including Distribution Companies, up to 2029-30,
- Setting up of Ultra Mega Renewable Energy Parks to provide land and transmission to RE developers for installation of RE projects at large scale,
- Schemes such as Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM), Solar Rooftop Phase II, 12000 MW CPSU Scheme Phase II,
- Laying of new transmission lines and creating new sub-station capacity under the Green Energy Corridor Scheme for evacuation of renewable power,
- Notification of standards for deployment of solar photovoltaic system/devices,

- Setting up of Project Development Cell for attracting and facilitating investments,
- Standard Bidding Guidelines for tariff based competitive bidding process for procurement of Power from Grid Connected Solar PV and Wind Projects.
- Government has issued orders that power shall be dispatched against Letter of Credit (LC) or advance payment to ensure timely payment by distribution licensees to RE generators.
- Notification of Promoting Renewable Energy through Green Energy Open Access Rules 2022.
- Notification of “The Electricity (Late Payment Surcharge and related matters) Rules (LPS rules).
- Launch of Green Term Ahead Market (GTAM) to facilitate sale of Renewable Energy Power through exchanges.
- National Green Hydrogen Mission launched with an aim to make India a global hub for production, utilization and export of Green Hydrogen and its derivatives.
- Notification of prescribed trajectory for RE power bids to be issued by Renewable Energy Implementation Agencies from FY 2023-24 to FY 2027-28. Under the trajectory, 50 GW/annum of RE bids to be issued.

(b) Scheme-wise total no. of projects in last two years and current year approved by Ministry of New and Renewable Energy in the country, including the State of Rajasthan, are given in **Annexure**.

Large grid connected renewable energy projects are generally installed by the private sector through a process of competitive bidding to discover the tariff. Such projects do not require any approval from the Government of India.

(c) During the year 2022-23, the percentage of India’s annual electricity generation met by renewable energy sources was 22.5%. In capacity terms, as on 31 October 2023, 42.06% of India’s installed electricity generation capacity is based on renewable energy sources.

Annexure referred to in reply to part (b) of Rajya Sabha Unstarred Question No. 1098 for 12/12/2023 regarding 'Capacity survey of new and renewable energy projects'

Total Projects Sanctioned in last two years and current year in the Country including State of Rajasthan

Scheme	Total Projects Sanctioned in last two years including State of Rajasthan	Total Projects in Rajasthan
Solar Parks	16 No. of Solar Parks of 17, 404 MW Capacity	3 No. of Solar parks of 4000 MW Capacity
PM-KUSUM	1066 MW capacity decentralized ground mounted Solar Power Plants	Nil
Solar Rooftop	1599.8 MW (capacity Projects)	55 MW (capacity Projects)