

**GOVERNMENT OF INDIA
MINISTRY OF POWER
LOK SABHA
UNSTARRED QUESTION NO.1531
ANSWERED ON 10.02.2022**

POWER GENERATION CAPACITY

**†1531. SHRI KANAKMAL KATARA:
SHRIMATI KESHARI DEVI PATEL:**

**Will the Minister of POWER
be pleased to state:**

- (a) the installed power generation capacity of Centre/State/Private sector in Uttar Pradesh and Rajasthan;**
- (b) the targets set and achieved for power generation from various sources during the year 2019-20 and 2020-21;**
- (c) the quantum increase in power generation capacity in different sectors during the last year along with the future plans of the Government for augmenting power generation capacity and to meet the increasing demands of power in Uttar Pradesh and Rajasthan;**
- (d) the details of the steps being taken by the Government to improve the power infrastructure in Uttar Pradesh;**
- (e) the details of the proposals received which are pending with the Union Government for setting up of power projects in Uttar Pradesh and Rajasthan; and**
- (f) whether the Government has conducted or proposes to conduct any survey regarding exploring the potential for solar energy in the Prayagraj district of Uttar Pradesh and solar, thermal and atomic energy in Bansawada and Dungarpur districts of Rajasthan?**

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

- (a) : The details of Sector-wise installed power generation capacity as on 31.01.2022 in Uttar Pradesh and Rajasthan are given at Annexure-I.**
- (b) : The details of target set and achieved in power generation from various sources (Thermal, Nuclear & Large Hydro of 25 Mega Watt and above) in the country during the year 2019-20 and 2020-21 are given at Annexure-II.**

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(c) : The country has enough installed generation capacity to meet the power demand of the country including that of Rajasthan and Uttar Pradesh. As on 31.01.2022, the installed generating capacity is about 395 Giga Watt (GW) against the Peak Power Demand of around 203 GW which occurred during the current year 2021-22. The Central Electricity Authority has estimated the installed generation capacity to be around 817 GW by 2029-30 which will be sufficient to meet the power demand of the country including the States of Rajasthan and Uttar Pradesh. The details of increase in power generation capacity in different Sectors during the last year along with the future plan for augmenting power generation capacity to meet the increasing demands in Uttar Pradesh and Rajasthan are at Annexure-III.

(d) : The details of steps being taken to improve the power infrastructure in Uttar Pradesh are given at Annexure-IV.

(e) : As per Section 7 of the Electricity Act, 2003, any generating company may establish, operate and maintain a generating station without obtaining a license under this Act, if it complies with the technical standards relating to connectivity with the grid. Accordingly, no approval of Government of India is required for setting up a generating station, subject to compliance with other applicable laws.

(f) : The construction of a Nuclear Power Plant at Mahi Banswara, District-Banswara, Rajasthan has been accorded administrative approval as well as financial sanction.

In accordance with the announcement by the Hon'ble Prime Minister at the United Nations Climate Change Conference in Glasgow (COP26), Ministry of New and Renewable Energy is committed to achieving 500 GW of installed electricity capacity from non-fossil fuel sources by 2030, to meet the increasing demand of power in the country.

The estimated potential for solar energy in the State of Uttar Pradesh including Prayagraj District is 22830 MW, while in the State of Rajasthan including Banswara and Dungarpur Districts is 142310 MW.

ANNEXURE-I**ANNEXURE REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION
NO. 1531 ANSWERED IN THE LOK SABHA ON 10.02.2022**

**Sector-wise installed power generation capacity as on 31.01.2022
in Uttar Pradesh and Rajasthan**

State	Sector	Generation Capacity (MW)
Uttar Pradesh	State	6679.70
	Private	11084.02
	Central	13413.14
	Sub-Total	31176.86
Rajasthan	State	8868.65
	Private	16578.86
	Central	2193.33
	Sub-Total	27640.84

ANNEXURE-II**ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 1531 ANSWERED IN THE LOK SABHA ON 10.02.2022**

Details of Program Generation & Actual Generation from fuel Sources (Thermal, Nuclear & Large Hydro of 25 MW and above) in the country during the year 2019-20 and 2020-21

SOURCE	Generation (Billion Units)			
	2019-20		2020-21	
	Program	Actual	Program	Actual
THERMAL	1142.13	1042.75	1138.53	1032.51
NUCLEAR	44.72	46.47	43.88	43.03
HYDRO	136.93	155.77	140.36	150.30
IMPORT FROM BHUTAN	6.22	5.79	7.23	8.76
Total (Conventional)	1330.00	1250.78	1330.00	1234.61
RENEWABLE ENERGY	152.40	138.38	152.00	147.25
Total		1389.16		1381.86

ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 1531 ANSWERED IN THE LOK SABHA ON 10.02.2022

Future Plan for augmenting power generation capacity to meet the increasing demand

Uttar Pradesh

1. Thermal :

- (i) The quantum increase in power generation capacity during the last year 2020-21 in Uttar Pradesh is 1320 MW (Meja STPP U#2 660MW, Tanda TPS U#6 660 MW) in Central Sector and 660 MW (Harduaganj TPS Exp-II Unit-1 660 MW) in State Sector.
- (ii) The details of under construction thermal power projects in the State of Uttar Pradesh are given as under :

(As on 31.01.2022)

Sl. No.	Name of the Project	Implementing Agency	Sector	Unit No.	Capacity (MW)	Anticipated Trial Run/Commissioning
1	Ghatampur TPP	JV of NLC & UPRVUNL	Central	U-1	660	Aug-22
				U-2	660	Feb-23
				U-3	660	Jun-23
2	Jawaharpur STPP	UPRVUNL	State	U-1	660	Apr-23
				U-2	660	Oct-23
3	Obra-C STPP	UPRVUNL	State	U-1	660	Oct-22
				U-2	660	May-23
4	Panki TPS Extn.	UPRVUNL	State	U-1	660	May-23
5	Khurja SCTPP	THDC	Central	U-1	660	Jan-24
				U-2	660	Jul-24
Total Capacity - Uttar Pradesh					6600	

Rajasthan

1. Thermal :

- (i) The quantum increase in power generation capacity in the State Sector during the current year 2021-22 in Rajasthan is 660 MW (Suratgarh STPS U#8 660 MW).

2. Nuclear:

- (i) Nuclear power project named Rajasthan A.P.S. Unit 7-8 with a capacity of 1400 MW is under construction in the State of Rajasthan.
- (ii) Additionally, nuclear power projects namely, Mahi Banswara (1&2) and Mahi Banswara (3&4) with 1400 MW capacity each has been accorded Administrative Approval and Financial Sanctions are under progress completion by 2031.

ANNEXURE REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 1531 ANSWERED IN THE LOK SABHA ON 10.02.2022

Major Transmission elements approved /commissioned in Uttar Pradesh

- (i) **1346 km of transmission lines (220 kV & above) and 3140 MVA of transformation capacity in substations (220 kV & above) have been commissioned in FY 2021-22 (till 31.12.2021) in the State of Uttar Pradesh. Additionally, Vindhyachal – Varanasi 765 kV D/c line included under the transmission scheme “New WR-NR 765 kV Inter-Regional Corridor” has been commissioned in June 2021.**
- (ii) **Intra-State transmission schemes for evacuation of power from 4000 MW solar parks proposed in Bundelkhand region of Uttar Pradesh have been recommended to MNRE for funding under Green Energy Corridor-II (GEC-II).**
- (iii) **Transmission system strengthening scheme for evacuation of power from solar energy zones in Rajasthan (8.1 GW) under Phase-II is presently under implementation. The scheme inter alia includes Bhadla-II PS – Sikar-II 765 kV 2xD/c line and Sikar-II – Aligarh 765 kV D/c line, thus facilitating dispersal of power from RE generations located in Rajasthan to the State of Uttar Pradesh.**
- (iv) **Under the Transmission system for evacuation of RE power from renewable energy parks in Leh, a 5 GW High Voltage Direct Current (HVDC) corridor has been approved from Leh (Ladakh) to Kaithal (Haryana) which will be connected to UP through Kaithal - Modipuram (Meerut) (UPPTCL) 765 kV D/C Line.**
- (v) **For improvement in distribution network, the Government of India has provided assistance by way of sanctioning Rs.48,016 crore to the State of Uttar Pradesh under various Central schemes i.e., Deen Dayal Upadhyaya Gram Jyoti Yojanas (DDUGJY), Integrated Power Development Scheme (IPDS), Sabhagya, Power System Development Fund (PSDF), etc.**
