

GOVERNMENT OF INDIA
MINISTRY OF POWER

RAJYA SABHA

UNSTARRED QUESTION NO.4154
ANSWERED ON 30.03.2026

POWER DEMAND GROWTH AND GENERATION CAPACITY

4154 SHRI LAHAR SINGH SIROYA:
SHRI NARAYANA KORAGAPPA:
SHRI MITHLESH KUMAR:
SHRI SHAMBHU SHARAN PATEL:
SHRI DEEPAK PRAKASH:
SHRI KESRIDEVSINH JHALA:
SMT. KIRAN CHOUDHRY:
SHRI SADANAND MHALU SHET TANAVADE:
SHRI CHUNNILAL GARASIYA:
SHRI NARHARI AMIN:
SHRI SUBHASH BARALA:
SMT. DARSHANA SINGH:

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

- (a) whether Government has undertaken any recent assessment of the country's peak electricity demand in the State including Uttar Pradesh, particularly in view of the record peak demand levels witnessed during the recent summer seasons;
- (b) if so, the details thereof including the maximum peak demand recorded and the measures taken to ensure adequate generation capacity to meet the rising electricity demand;
- (c) whether Government has prepared any long-term roadmap to augment generation capacity and strengthen transmission infrastructure in order to meet the projected increase in electricity demand in the States including Uttar Pradesh in the coming years; and
- (d) if so, the details thereof?

A N S W E R

THE MINISTER OF STATE IN THE MINISTRY OF POWER

(SHRI SHRIPAD NAIK)

(a) to (d) : Country had successfully met the all-time maximum demand of 250 GW in Financial Year (FY) 2024-25. The details of 'Power Supply Position' in terms of peak demand and energy requirement of country and states including Uttar Pradesh for last three FY and the current FY 2025-26 (upto February, 2026) are given at **Annexure**. The 'energy supplied' & 'peak demand' met has been commensurate with the 'energy requirement' & 'peak demand' with only a marginal gap which is generally on account of constraints in the State transmission / distribution network.

As per midterm review of 20th Electric Power Survey (EPS), the peak electricity demand and energy requirement for FY 2029-30 is anticipated to be 345 GW and 2388 BU respectively and for FY 2031-32, the peak electricity demand and energy requirement is anticipated to be 388 GW and 2703 BU respectively.

Government of India has taken the following steps to meet the increasing demand of electricity in the country including the State of Uttar Pradesh:

1. Generation and Storage Planning:

- i. As per National Electricity Plan (NEP), installed generation capacity in 2031-32 is likely to be 874 GW. With a view to ensure generation capacity remains ahead of projected peak demand, all the States, in consultation with CEA, have prepared their “Resource Adequacy Plans (RAPs)”, which are dynamic 10-year rolling plans and includes power generation as well as power procurement planning.
- ii. All the States were advised to initiate process for creating/ contracting generation capacities; from all generation sources, as per their Resource Adequacy Plans.
- iii. In order to augment the power generation capacity, the Government of India has initiated following capacity addition programme:

(A) The projected thermal (coal and lignite) capacity requirement by the year 2034–35 is estimated at approximately 3,07,000 MW as against the 2,11,855 MW installed capacity as on 31.03.2023. To meet this requirement, Ministry of Power has envisaged to set up an additional minimum 97,000 MW coal and lignite based thermal capacity.

Further, following initiatives have also been undertaken: -

Thermal capacities of around 18,160 MW have been commissioned since April 2023 till 31.01.2026. In addition, 38,745 MW of thermal capacity (including 4,845 MW of stressed thermal power projects) is currently under construction. The contracts of 22,920 MW have been awarded and are due for construction. Also, 24,020 MW of coal and lignite-based candidate capacity has been identified which is at various stages of planning in the country.

(B) 12,723.50 MW of Hydro Electric Projects are under construction till 31.01.2026. Further, 4,274 MW of Hydro Electric Projects are under various stage of planning and targeted to be completed by 2031-32.

(C) 6,600 MW of Nuclear Capacity is under construction till 31.01.2026 and targeted to be completed by 2029-30. 7,000 MW of Nuclear Capacity is under various stages of planning and approval.

(D) 1,54,830 MW Renewable Capacity including 64,670 MW of Solar, 6,490 MW of Wind and 59,990 MW Hybrid power is under construction till 31.01.2026 while 47,920 MW of Renewable Capacity including 35,440 MW of Solar and 10,080 MW Hybrid Power is at various stages of planning and targeted to be completed by 2029-30.

(E) In energy storage systems, as on 31.01.2026, 13,120 MW/78,720 MWh Pumped Storage Projects (PSPs) are under construction. Further, a total of 9,580 MW/57,480 MWh capacity of Pumped Storage Projects (PSPs) are concurred and yet to be taken up for construction. As on 31.01.2026, 10,658.94 MW/ 28739.32 MWh Battery Energy Storage System (BESS) capacity are under construction, and 22,347.15 MW/ 69,836.70 MWh BESS capacity are under tendering stage.

2. Transmission Planning: Inter and Intra-State Transmission System has been planned and implementation of the same is taken up in matching time frame of generation capacity addition. As per the National Electricity Plan, about 1,91,474 ckm of transmission lines and 1,274 GVA of transformation capacity is planned to be added (at 220 kV and above voltage level) during the ten-year period from 2022-23 to 2031-32.

In addition to the above, the Ministry of Power has issued guidelines dated 14.06.2024, 21.03.2025 and 15.12.2025 regarding the payment of compensation for Right of Way (RoW) for transmission lines, wherein the land rate has been linked to the prevailing market rate. These guidelines address the key challenges of RoW arising from landowners demanding higher compensation than the rates determined by the State Government.

3. Promotion of Renewable Energy Generation:

- i. 100% Inter State Transmission System (ISTS) charges have been waived for inter-state sale of solar and wind power for projects to be commissioned by 30th June 2025 (with waiver tapering off 25% annually till June 2028), for co-located BESS projects commissioned by June 2028, for Hydro PSP projects where construction work awarded by June 2028, for Green Hydrogen Projects commissioned till December 2030 and for offshore wind projects commissioned till December 2032.
- ii. Standard Bidding Guidelines for tariff based competitive bidding process for procurement of Power from Grid Connected Solar, Wind, Wind-Solar Hybrid and Firm & Dispatchable RE (FDRE) projects have been issued.
- iii. Renewable Energy Implementing Agencies (REIAs) are regularly inviting bids for procurement of RE power.
- iv. Foreign Direct Investment (FDI) has been permitted up to 100 percent under the automatic route.
- v. To augment transmission infrastructure needed for steep RE trajectory, transmission plan has been prepared till 2032.
- vi. Laying of new intrastate transmission lines and creating new sub-station capacity has been supported under the Green Energy Corridor Scheme for evacuation of renewable power.
- vii. Scheme for setting up of Solar Parks and Ultra Mega Solar Power projects is being implemented to provide land and transmission to RE developers for installation of RE projects at large scale.
- viii. Schemes such as Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM), PM Surya Ghar Muft Bijli Yojana, National Programme on High Efficiency Solar PV Modules, New Solar Power Scheme (for Tribal and PVTG Habitations/Villages) under Pradhan Mantri Janjati Adivasi Nyaya Maha Abhiyan (PM JANMAN) and Dharti Aabha Janjatiya Gram Utkarsh Abhiyan (DA JGUA), National Green Hydrogen Mission, Viability Gap Funding (VGF) Scheme for Offshore Wind Energy Projects have been launched.
- ix. To encourage RE consumption, Renewable Purchase Obligation (RPO) followed by Renewable Consumption Obligation (RCO) trajectory has been notified till 2029-30. The RCO which is applicable to all designated consumers under the Energy Conservation Act, 2001 will attract penalties on non-compliance.
- x. "Strategy for Establishment of Offshore Wind Energy Projects" has been issued.
- xi. Green Day Ahead Market (GDAM) and Green Term Ahead Market (GTAM) have been launched to facilitate sale of Renewable Energy Power through exchanges.
- xii. Production Linked Incentive (PLI) scheme has been launched to achieve the objective of localization of supply chain for solar PV Modules.

**ANNEXURE REFERRED IN REPLY TO PARTS (a) TO (d) OF UNSTARRED QUESTION
NO. 4154 ANSWERED IN THE RAJYA SABHA ON 30.03.2026**

The state- wise 'Power Supply Position' for last three financial years and the current financial year i.e. FY 2025-26 (up to February, 2026):

State /UT	Energy				Peak			
	April,2022 - March,2023				April,2022 - March,2023			
System /	Energy Requirement	Energy Supplied	Energy not Supplied		Peak Demand	Peak Met	Demand not Met	
Region	(MU)	(MU)	(MU)	(%)	(MW)	(MW)	(MW)	(%)
Chandigarh	1,788	1,788	0	0.0	407	407	0	0.0
Delhi	35,143	35,133	10	0.0	7,695	7,695	0	0.0
Haryana	61,451	60,945	506	0.8	12,768	12,768	0	0.0
Himachal Pradesh	12,649	12,542	107	0.8	2,071	2,071	0	0.0
UT of J&K and Ladakh	19,639	19,322	317	1.6	3,137	2,967	170	5.4
Punjab	69,522	69,220	302	0.4	14,311	14,311	0	0.0
Rajasthan	1,01,801	1,00,057	1,745	1.7	17,399	17,206	193	1.1
Uttar Pradesh	1,44,251	1,43,050	1,201	0.8	27,369	26,589	780	2.8
Uttarakhand	15,647	15,386	261	1.7	2,594	2,594	0	0.0
Chhattisgarh	37,446	37,374	72	0.2	5,399	5,399	0	0.0
Gujarat	1,39,043	1,38,999	44	0.0	21,464	21,382	82	0.4
Madhya Pradesh	92,683	92,325	358	0.4	17,347	17,238	109	0.6
Maharashtra	1,87,309	1,87,197	111	0.1	30,935	28,846	2,089	6.8
Dadra & Nagar Haveli and Daman & Diu	10,018	10,018	0	0.0	1,278	1,278	0	0.0
Goa	4,669	4,669	0	0.0	718	718	0	0.0
Andhra Pradesh	72,302	71,893	410	0.6	13,167	12,293	874	6.6
Telangana	77,832	77,799	34	0.0	15,497	15,497	0	0.0
Karnataka	75,688	75,663	26	0.0	15,828	15,828	0	0.0
Kerala	27,747	27,726	21	0.1	4,699	4,370	329	7.0
Tamil Nadu	1,14,798	1,14,722	77	0.1	17,729	17,729	0	0.0
Puducherry	3,051	3,050	1	0.0	501	501	0	0.0
Lakshadweep	64	64	0	0.0	12	12	0	0.0
Bihar	39,545	38,762	783	2.0	7,852	6,631	1,221	15.5
DVC	26,339	26,330	9	0.0	3,402	3,396	7	0.2
Jharkhand	13,278	12,288	990	7.5	2,253	1,918	336	14.9
Odisha	42,631	42,584	47	0.1	6,566	6,391	175	2.7
West Bengal	60,348	60,274	74	0.1	10,125	9,900	225	2.2
Sikkim	587	587	0	0.0	124	124	0	0.0
Andaman- Nicobar	348	348	0	0.1	62	62	0	0.0
Arunachal Pradesh	915	892	24	2.6	167	167	0	0.0
Assam	11,465	11,465	0	0.0	2,379	2,376	3	0.1
Manipur	1,014	1,014	0	0.0	248	248	0	0.0
Meghalaya	2,237	2,237	0	0.0	404	404	0	0.0
Mizoram	645	645	0	0.0	159	159	0	0.0
Nagaland	926	873	54	5.8	168	167	1	0.5
Tripura	1,547	1,547	0	0.0	333	333	0	0.0
All India	15,13,497	15,05,914	7,583	0.5	2,15,888	2,07,231	8,657	4.0

The state- wise 'Power Supply Position' for last three financial years and the current financial year i.e. FY 2025-26 (up to February, 2026):

State / UT System / Region	Energy				Peak			
	April,2023 -March,2024				April,2023 -March,2024			
	Energy Requirement (MU)	Energy Supplied (MU)	Energy not Supplied (MU) (%)		Peak Demand (MW)	Peak Met (MW)	Demand not Met (MW) (%)	
Chandigarh	1,789	1,789	0	0.0	411	411	0	0.0
Delhi	35,501	35,496	5	0.0	7,437	7,437	0	0.0
Haryana	63,983	63,636	348	0.5	13,088	12,844	244	1.9
Himachal Pradesh	12,805	12,767	38	0.3	2,181	2,181	0	0.0
UT of J&K and Ladakh	20,040	19,763	277	1.4	3,181	3,133	48	1.5
Punjab	69,533	69,528	5	0.0	15,293	15,293	0	0.0
Rajasthan	1,07,422	1,06,806	616	0.6	18,128	18,128	0	0.0
Uttar Pradesh	1,48,791	1,48,287	504	0.3	28,704	28,284	420	1.5
Uttarakhand	15,644	15,532	112	0.7	2,635	2,405	230	8.7
Chhattisgarh	39,930	39,872	58	0.1	6,148	6,148	0	0.0
Gujarat	1,45,768	1,45,740	28	0.0	24,829	24,544	285	1.1
Madhya Pradesh	99,301	99,150	151	0.2	18,252	17,817	435	2.4
Maharashtra	2,07,108	2,06,931	176	0.1	31,178	27,996	3,182	10.2
Dadra & Nagar Haveli and Daman & Diu	10,164	10,164	0	0.0	1,327	1,327	0	0.0
Goa	5,111	5,111	0	0.0	776	776	0	0.0
Andhra Pradesh	80,209	80,151	57	0.1	13,237	13,237	0	0.0
Telangana	84,623	84,613	9	0.0	15,622	15,622	0	0.0
Karnataka	94,088	93,934	154	0.2	17,212	17,212	0	0.0
Kerala	30,943	30,938	5	0.0	5,284	5,284	0	0.0
Tamil Nadu	1,26,163	1,26,151	12	0.0	19,045	19,045	0	0.0
Puducherry	3,456	3,455	1	0.0	524	524	0	0.0
Lakshadweep	64	64	0	0.0	12	12	0	0.6
Bihar	41,514	40,918	596	1.4	8,049	7,420	629	7.8
DVC	26,560	26,552	8	0.0	3,451	3,451	0	0.0
Jharkhand	14,408	13,858	550	3.8	2,193	2,020	173	7.9
Odisha	41,358	41,333	25	0.1	6,443	6,443	0	0.0
West Bengal	67,576	67,490	86	0.1	11,626	11,626	0	0.0
Sikkim	544	543	0	0.0	133	133	0	0.3
Andaman- Nicobar	386	374	12	3.2	65	60	5	7.7
Arunachal Pradesh	1,014	1,014	0	0.0	186	186	0	0.2
Assam	12,445	12,341	104	0.8	2,413	2,413	0	0.0
Manipur	1,023	1,008	15	1.5	258	248	10	3.8
Meghalaya	2,236	2,066	170	7.6	405	405	0	0.0
Mizoram	684	684	0	0.0	162	162	0	0.0
Nagaland	921	921	0	0.0	174	174	0	0.1
Tripura	1,691	1,691	0	0.0	362	362	0	0.0
All India	16,26,132	16,22,020	4,112	0.3	2,43,271	2,39,931	3,340	1.4

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	Energy Requirement (MU)	Energy Supplied (MU)	Energy not Supplied (MU) (%)		Peak Demand (MW)	Peak Met (MW)	Demand not Met (MW) (%)	
Chandigarh	1,952	1,952	0	0.0	449	449	0	0.0
Delhi	38,255	38,243	12	0.0	8,656	8,656	0	0.0
Haryana	70,149	70,120	30	0.0	14,662	14,662	0	0.0
Himachal Pradesh	13,566	13,526	40	0.3	2,273	2,273	0	0.0
UT of J&K and Ladakh	20,374	20,283	90	0.4	3,236	2,836	400	12.4
Punjab	77,423	77,423	0	0.0	16,058	16,058	0	0.0
Rajasthan	1,13,833	1,13,529	304	0.3	19,165	19,165	0	0.0
Uttar Pradesh	1,65,090	1,64,786	304	0.2	30,618	30,618	0	0.0
Uttarakhand	16,770	16,727	43	0.3	2,863	2,863	0	0.0
Chhattisgarh	43,208	43,180	28	0.1	6,511	6,511	0	0.0
Gujarat	1,51,878	1,51,875	3	0.0	25,588	25,588	0	0.0
Madhya Pradesh	1,04,445	1,04,312	133	0.1	19,371	19,183	188	1.0
Maharashtra	2,01,816	2,01,757	59	0.0	30,675	30,675	0	0.0
Dadra & Nagar Haveli and Daman & Diu	10,852	10,852	0	0.0	1,390	1,390	0	0.0
Goa	5,411	5,411	0	0.0	810	810	0	0.0
Andhra Pradesh	79,028	79,025	3	0.0	13,712	13,712	0	0.0
Telangana	88,262	88,258	4	0.0	17,162	17,162	0	0.0
Karnataka	92,450	92,446	4	0.0	18,398	18,395	3	0.0
Kerala	31,624	31,616	8	0.0	5,904	5,631	274	4.6
Tamil Nadu	1,30,413	1,30,408	5	0.0	20,784	20,784	0	0.0
Puducherry	3,549	3,549	0	0.0	549	549	0	0.0
Lakshadweep	68	68	0	0.0	13	13	0	0.0
Bihar	44,393	44,217	176	0.4	8,078	7,852	226	2.8
DVC	25,891	25,888	3	0.0	3,708	3,704	4	0.1
Jharkhand	15,203	15,126	77	0.5	2,295	2,292	3	0.1
Odisha	42,882	42,858	24	0.1	6,905	6,905	0	0.0
West Bengal	71,180	71,085	95	0.1	12,645	12,640	5	0.0
Sikkim	574	574	0	0.0	138	138	0	0.0
Andaman- Nicobar	425	413	12	2.9	71	64	7	10.2
Arunachal Pradesh	1,050	1,050	0	0.0	218	191	27	12.4
Assam	12,843	12,837	6	0.0	2,812	2,687	125	4.4
Manipur	1,079	1,068	10	0.9	269	269	0	0.0
Meghalaya	2,046	2,046	0	0.0	409	408	1	0.2
Mizoram	709	709	0	0.0	168	168	0	0.0
Nagaland	938	938	0	0.0	189	188	1	0.3
Tripura	1,939	1,939	0	0.0	386	386	0	0.1
All India	16,93,959	16,92,369	1,590	0.1	2,49,856	2,49,854	2	0.0

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	Energy Requirement (MU)	Energy Supplied (MU)	Energy not Supplied (MU)	Peak Demand (%)	Peak Met (MW)		Demand not Met (MW) (%)	
Chandigarh	1,765	1,764	1	0.0	460	460	0	0.0
Delhi	36,023	36,015	8	0.0	8,442	8,442	0	0.0
Haryana	65,694	65,629	65	0.1	14,084	14,084	0	0.0
Himachal Pradesh	12,600	12,556	44	0.3	2,310	2,310	0	0.0
UT of J&K and Ladakh	18,501	18,484	17	0.1	3,325	3,325	0	0.0
Punjab	70,563	70,490	73	0.1	16,670	16,670	0	0.0
Rajasthan	1,02,187	1,02,187	0	0.0	19,617	19,617	0	0.0
Uttar Pradesh	1,51,573	1,51,548	26	0.0	31,486	31,486	0	0.0
Uttarakhand	15,290	15,236	54	0.4	2,910	2,910	0	0.0
Chhattisgarh	38,547	38,538	8	0.0	6,819	6,819	0	0.0
Gujarat	1,42,970	1,42,969	0	0.0	26,457	26,457	0	0.0
Madhya Pradesh	94,890	94,879	10	0.0	19,902	19,895	7	0.0
Maharashtra	1,83,454	1,83,446	9	0.0	30,782	30,782	0	0.0
Dadra & Nagar Haveli and Daman & Diu	10,251	10,251	0	0.0	1,416	1,416	0	0.0
Goa	4,943	4,943	0	0.0	864	864	0	0.0
Andhra Pradesh	73,109	73,102	7	0.0	13,511	13,510	1	0.0
Telangana	77,291	77,283	8	0.0	17,083	17,083	0	0.0
Karnataka	85,519	85,509	11	0.0	18,206	18,206	0	0.0
Kerala	28,098	28,095	3	0.0	5,185	5,178	7	0.1
Tamil Nadu	1,20,162	1,20,151	11	0.0	19,878	19,878	0	0.0
Puducherry	3,202	3,198	3	0.1	560	552	8	1.5
Lakshadweep	66	66	0	0.0	14	14	0	0.0
Bihar	43,751	43,737	14	0.0	8,597	8,594	4	0.0
DVC	22,636	22,633	3	0.0	3,532	3,523	9	0.3
Jharkhand	14,121	14,116	5	0.0	2,350	2,350	0	0.0
Odisha	40,490	40,484	6	0.0	7,147	7,129	18	0.3
West Bengal	66,876	66,812	64	0.1	13,108	13,108	0	0.0
Sikkim	501	501	0	0.0	126	126	0	0.0
Andaman- Nicobar	389	370	19	4.9	72	54	18	24.9
Arunachal Pradesh	1,098	1,097	0	0.0	223	223	0	0.0
Assam	12,711	12,710	1	0.0	2,812	2,812	0	0.0
Manipur	1,082	1,079	3	0.2	277	277	0	0.0
Meghalaya	1,917	1,917	0	0.0	374	374	0	0.0
Mizoram	691	691	0	0.0	182	182	0	0.1
Nagaland	922	922	0	0.0	202	191	11	5.6
Tripura	1,770	1,770	0	0.0	377	377	0	0.0
All India	15,59,347	15,58,892	454	0.0	2,45,444	2,45,416	28	0.0
