

GOVERNMENT OF INDIA
MINISTRY OF POWER
RAJYA SABHA
UNSTARRED QUESTION NO. 3197
ANSWERED ON 28.03.2023

REQUIREMENT, DEMAND AND SUPPLY OF ELECTRICITY

3197 # SHRI SATISH CHANDRA DUBEY:

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

- (a) whether Government has done any assessment of electricity requirement, demand and supply in both peak and non-peak hours, for the next five years, State-wise;
- (b) if so, the details thereof including potential capacity growth, State/UT-wise; and
- (c) the necessary steps being taken to meet the demand of electricity and the amount being invested in it?

A N S W E R

THE MINISTER OF POWER AND NEW & RENEWABLE ENERGY

(SHRI R.K. SINGH)

(a) & (b) : The 20th Electric Power Survey (EPS) Report, published by Central Electricity Authority (CEA) in November 2022, covers electricity demand projection for the year 2021-22 to 2031-32 as well as perspective electricity demand projection for the year 2036-37 and 2041-42 for the country.

The estimated energy requirement and peak demand of the country State/UT-wise from the year 2022-23 to 2026-27 is given at **Annexure**.

(c) : The steps taken/being taken by the Government to meet the demand of electricity and investment in it are as follows:

- (i) In order to meet the growing demand of electricity, there is need for fresh generation capacity addition. As per draft National Electricity Plan for the period 2022-27 which is under approval, an investment of about Rs.14.54 lakh crore would be required to install additional generation capacity of about 210 GW during 2022-27 along with battery storage of 8680MW/ 34720 MWh.
- (ii) Thermal Power Plants of 25,440 MW of capacity are at various stages of construction in the country.
- (iii) Hydroelectric projects (above 25 MW) totaling to 17803.5 MW are under implementation.
- (iv) Nuclear Power Plants of 8,700 MW of capacity are under construction and 7000 MW of Nuclear power plants have been accorded Sanction.

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- (v) The capacity of National Grid is being expanded on a continuous basis commensurate with the growth in electricity generation and electricity demand. It is planned to add about 17,500 ckm of transmission lines and 80,000 MVA of transformation capacity per year (220 kV and above voltage level) on all India basis. The present inter-regional capacity of the National Grid is 1,12,250 MW and is likely to go upto about 1,50,000 MW by 2030.
- (vi) Government has set a target to achieve 50 percent cumulative electric power installed capacity from non-fossil fuel-based energy resources by 2030. As of February, 2023, India's total utility scale installed solar capacity is around 64.4 GW. As on February, 2023, India's total installed wind capacity is around 42 GW. As on February, 2023, total installed non-fossil based capacity is around 176 GW out of total capacity of 412 GW. The likely installed capacity of non-fossil fuel of the country by the end of year 2029-30 will be around 500 GW.

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 3197 ANSWERED IN THE RAJYA SABHA ON 28.03.2023

The estimated energy requirement of the country State/UT-wise from the year 2022-23 to 2026-27

(in MU)

State/ UT	2022-23	2023-24	2024-25	2025-26	2026-27
Chandigarh	1737	1783	1827	1869	1911
Delhi	35715	37346	39000	40771	42566
Haryana	62706	66926	71821	77217	82981
Himachal Pradesh	12614	13172	13829	14522	15238
J&K	19568	20811	21382	21800	22507
Ladakh	210	233	259	288	321
Punjab	66464	69686	73493	77571	81959
Rajasthan	101757	112368	119167	126118	133550
Uttar Pradesh	151152	159775	169529	179967	191138
Uttarakhand	16301	17138	18087	19093	20142
Northern Region	468224	499239	528394	559218	592312
Chhattisgarh	36260	38528	41223	44130	47208
Dadar Nagar Haveli	7794	8165	8605	9072	9559
Daman & Diu	2840	2970	3121	3277	3437
Goa	4630	4820	5038	5270	5512
Gujarat	139566	148082	158654	170323	182507
Madhya Pradesh	98863	104600	111424	118751	128844
Maharashtra	183777	191499	200087	209593	219726
Western Region	473729	498665	528152	560416	596793
Andhra Pradesh	72961	78134	84245	90889	98162
Karnataka	75202	77876	80922	84132	88232
Kerala	27892	29244	30729	32281	33903
Lakshadweep	58	60	62	64	66
Puducherry	3048	3136	3234	3332	3436
Tamil Nadu	115788	122102	129079	136399	144086
Telangana	73229	77503	82316	87414	92967
Southern Region	368179	388055	410587	434511	460853
A&N	345	350	357	363	368
Bihar	41814	45560	49438	53920	58256
DVC	17624	18757	20100	21550	23087
Jharkhand	19334	20677	22112	23846	25463
Odisha	43060	43582	44985	46689	48627
Sikkim	651	689	730	773	819
West Bengal	60163	63564	67518	71820	76352
Eastern Region	182992	193179	205240	218961	232971
AP	916	964	1012	1064	1117
Assam	11972	12679	13454	14279	15151
Manipur	1089	1152	1218	1289	1363
Meghalaya	2350	2437	2527	2618	2711
Mizoram	897	978	1063	1156	1252
Nagaland	909	953	997	1041	1088
Tripura	1663	1913	1991	2073	2222
North Eastern Region	19796	21076	22261	23521	24904
All India	1512918	1600214	1694634	1796627	1907835

The estimated peak demand of the country State/UT-wise from the year 2022-23 to 2026-27

(in MW)

State/UT	2022-23	2023-24	2024-25	2025-26	2026-27
Chandigarh	435	449	464	478	492
Delhi	7770	8164	8571	9003	9460
Haryana	12788	13546	14411	15335	16337
Himachal Pradesh	2119	2215	2328	2448	2571
J&K	3075	3273	3369	3443	3566
Ladakh	65	70	74	79	85
Punjab	14327	14859	15502	16189	16925
Rajasthan	16291	17906	18959	20030	21175
Uttar Pradesh	26028	27531	29235	31061	33017
Uttarakhand	2603	2742	2905	3072	3249
Northern Region	77767	82688	87457	92476	97898
Chhattisgarh	5358	5708	6132	6592	7081
Dadar Nagar Haveli	1021	1074	1138	1204	1273
Daman & Diu	405	424	447	470	493
Goa	740	778	818	859	901
Gujarat	21550	22762	24291	25953	27710
Madhya Pradesh	17009	17874	18914	20024	21592
Maharashtra	30203	31495	32999	34567	36376
Western Region	70963	74704	79137	83986	89457
Andhra Pradesh	13363	14269	15337	16495	17758
Karnataka	15075	15636	16277	16947	17810
Kerala	4592	4808	5044	5291	5549
Lakshadweep	12	12	12	13	13
Puducherry	502	517	533	549	567
Tamil Nadu	17361	18336	19413	20545	21736
Telangana	14663	15704	16877	18138	19529
Southern Region	63424	67143	71362	75861	80864
A&N	61	63	64	66	67
Bihar	7495	8184	8908	9743	10553
DVC	3248	3450	3689	3947	4220
Jharkhand	2994	3163	3362	3576	3808
Odisha	6490	6635	6918	7252	7630
Sikkim	141	150	159	169	179
West Bengal	10150	10726	11395	12123	12891
Eastern Region	28737	30479	32544	34857	37265
AP	180	190	201	211	223
Assam	2376	2526	2689	2861	3045
Manipur	276	291	308	325	344
Meghalaya	424	441	457	474	492
Mizoram	170	184	199	215	231
Nagaland	163	171	179	187	195
Tripura	356	421	452	484	531
North Eastern Region	3755	4029	4284	4556	4855
All India	216966	230144	244565	260118	277201
