

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.2118
TO BE ANSWERED ON 04.07.2019**

GAP IN DEMAND AND SUPPLY OF POWER

**2118. SHRI SYED IMTIAZ JALEEL:
SHRI ASADUDDIN OWAISI:**

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

- (a) whether India has achieved higher production in all types of power generation sources, viz. thermal, hydro, nuclear and renewable;**
- (b) if so, the details thereof;**
- (c) whether in spite of higher production there is a huge gap in demand and supply of power in the country;**
- (d) if so, the details thereof and the reasons therefor;**
- (e) the total demand and supply of power during the last two years and the current year, State/UT-wise;**
- (f) the total power transmission, distribution, theft and losses which are responsible for gap in demand and supply; and**
- (g) the steps taken or being taken by the Government in this regard?**

A N S W E R

THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER, NEW & RENEWABLE ENERGY AND THE MINISTER OF STATE FOR SKILL DEVELOPMENT & ENTREPRENEURSHIP

(SHRI R.K. SINGH)

(a) & (b): There has been increase in power generation from conventional fuel sources (except Nuclear) of 25 MW and above plants and from renewable sources in the country during the last three years i.e. 2016-17, 2017-18 and 2018-19. The details of source- wise generation from last three years are given at Annexure-I.

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(c) to (e) : As on 31.05.2019, the installed generation capacity was about 357 Giga Watt (GW) which is sufficient to meet the peak power demand of the country. The maximum peak demand occurred during the current year 2019-20 (upto May, 2019) was around 183 GW which was successfully met. During April-May, 2019 the average power shortage in the country was only around 0.4% and the peak power shortage was only around 0.5%. The state-wise details of power supply position in the country during the last two years and the current year 2019-20 (up to May, 2019) are at Annexure-II. This gap is generally on account of factors like constraints in distribution network, financial constraints to purchase power by Distribution Company etc.

(f) & (g) : The transmission losses in Inter-State Transmission System (ISTS) are in the range of 2.5% to 3% which is for technical reasons. As per the report information submitted by states participating under Ujwal DISCOM Assurance Yojana (UDAY) the Aggregate Technical and Commercial (AT&C) losses, which include theft and pilferage for the year 2017-18 stood at 18.7%. In spite of the above mentioned losses which includes technical losses inherent to the electrical system, there is practically no gap between supply and demand.

To reduce the losses at Distribution level, the Government has launched several schemes such as Integrated Power Development Scheme (IPDS) and Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY) for strengthening the Distribution infrastructure in urban and rural areas respectively. This includes provision of consumer and system metering, star rated transformers, underground cabling and aerial bunched cables. A total of 32 States/ Union Territories and their Power distribution utilities have also signed Memorandum of Understanding (MOUs) under UDAY the main outcome parameters of which is to reduce AT&C loss levels to 15%.

ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 2118 TO BE ANSWERED IN THE LOK SABHA ON 04.07.2019.

The details of source-wise generation for last three years and current year (upto May,19)

Source	Monitored Capacity as on 31.05.2019 (in MW)			
		2018-19	2017-18	2016-17
THERMAL	226212.85	1072223.88	1037059.10	994230.17
NUCLEAR	6780.00	37812.59	38346.12	37915.87
HYDRO	45399.22	134893.61	126122.70	122377.56
Bhutan Import	-	4406.62	4778.33	5617.34
Total (conventional)	278392.07	1249336.70	1206306.25	1160140.94
RENEWABLE SOURCES		126759.09	101839.48	81548.21
Grand Total (Conventional +Renewable)		1376095.79	1308145.73	1241689.15

*** PROVISIONAL BASED ON ACTUAL-CUM-ASSESSMENT**

Note: Gross Generation from conventional sources (Thermal, Hydro and Nuclear) stations of 25 MW and above only.

ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PARTS (c) TO (e) OF UNSTARRED QUESTION NO. 2118 TO BE ANSWERED IN THE LOK SABHA ON 04.07.2019.

The details of state/UT-wise demand and supply in terms of Energy during last 2 years and current year upto May, 2019

State / System / Region	Power Supply Position (Energy)											
	April, 2019 - May,2019 *				April, 2018 - March,2019				April, 2017 - March,2018			
	Energy Requirement	Energy Supplied	Energy not Supplied		Energy Requirement	Energy Supplied	Energy not Supplied		Energy Requirement	Energy Supplied	Energy not Supplied	
	(MU)	(MU)	(MU)	(%)	(MU)	(MU)	(MU)	(%)	(MU)	(MU)	(MU)	(%)
Chandigarh	271	271	0	0.0	1,571	1,571	0	0.0	1,610	1,601	9	0.5
Delhi	6,065	6,064	1	0.0	32,299	32,282	17	0.1	31,826	31,806	19	0.1
Haryana	8,679	8,679	0	0.0	53,665	53,665	0	0.0	50,775	50,775	0	0.0
Himachal Pradesh	1,654	1,644	10	0.6	9,850	9,618	232	2.4	9,399	9,346	53	0.6
Jammu & Kashmir	3,364	2,720	644	19.1	18,988	15,616	3,372	17.8	18,808	15,050	3,759	20.0
Punjab	8,475	8,475	0	0.0	55,328	55,315	13	0.0	54,812	54,812	0	0.0
Rajasthan	13,313	13,300	13	0.1	79,815	79,626	189	0.2	71,194	70,603	591	0.8
Uttar Pradesh	22,897	22,817	79	0.3	117,133	116,149	984	0.8	120,052	118,303	1,749	1.5
Uttarakhand	2,449	2,449	0	0.0	13,845	13,753	92	0.7	13,457	13,426	31	0.2
Northern Region	67,166	66,419	747	1.1	382,493	377,595	4,898	1.3	371,934	365,723	6,211	1.7
Chhattisgarh	5,765	5,764	1	0.0	26,471	26,417	54	0.2	25,916	25,832	84	0.3
Gujarat	21,748	21,748	0	0.0	116,372	116,356	15	0.0	109,984	109,973	12	0.0
Madhya Pradesh	12,735	12,735	0	0.0	76,056	76,054	2	0.0	69,925	69,925	0	0.0
Maharashtra	29,295	29,294	0	0.0	158,295	158,157	137	0.1	149,761	149,531	230	0.2
Daman & Diu	443	443	0	0.0	2,558	2,558	0	0.0	2,534	2,534	0	0.0
Dadar Nagar Haveli	1,106	1,106	0	0.0	6,303	6,302	0	0.0	6,168	6,168	0	0.0
Goa	801	801	0	0.0	4,295	4,292	3	0.1	4,117	4,117	0	0.0
Western Region	71,893	71,892	1	0.0	390,349	390,136	212	0.1	368,405	368,080	326	0.1
Andhra Pradesh	11,709	11,702	7	0.1	63,861	63,804	58	0.1	58,384	58,288	96	0.2
Telangana	10,772	10,771	1	0.0	66,489	66,427	62	0.1	60,319	60,235	83	0.1
Karnataka	13,569	13,568	1	0.0	71,764	71,695	69	0.1	67,869	67,701	168	0.2
Kerala	4,888	4,878	10	0.2	25,016	24,898	118	0.5	25,002	24,917	85	0.3
Tamil Nadu	20,031	20,030	1	0.0	109,482	109,380	102	0.1	106,006	105,839	166	0.2
Puducherry	517	516	1	0.1	2,766	2,756	10	0.3	2,668	2,661	7	0.3
Lakshadweep #	8	8	0	0.0	46	46	0	0.0	47	47	0	0.0
Southern Region	61,486	61,465	21	0.0	339,377	338,960	417	0.1	320,248	319,642	606	0.2
Bihar	5,662	5,659	3	0.1	30,061	29,825	236	0.8	27,019	26,603	417	1.5
DVC	3,757	3,755	2	0.1	22,745	22,372	372	1.6	21,549	21,373	176	0.8
Jharkhand	1,505	1,495	10	0.7	8,737	8,490	247	2.8	7,907	7,753	154	1.9
Odisha	5,261	5,261	0	0.0	32,145	32,115	30	0.1	28,802	28,706	96	0.3
West Bengal	9,920	9,897	23	0.2	51,471	51,287	184	0.4	50,760	50,569	191	0.4
Sikkim	78	78	0	0.0	527	527	0	0.1	485	484	0	0.1
Andaman- Nicobar#	58	54	4	6.7	346	323	23	6.7	328	299	29	8.9
Eastern Region	26,182	26,144	38	0.1	145,686	144,616	1,070	0.7	136,522	135,489	1,034	0.8
Arunachal Pradesh	127	126	1	0.6	869	859	9	1.1	799	788	10	1.3
Assam	1,573	1,434	139	8.8	9,566	9,238	328	3.4	9,094	8,779	315	3.5
Manipur	135	134	2	1.2	905	895	10	1.2	874	827	46	5.3
Meghalaya	336	318	18	5.5	1,957	1,956	2	0.1	1,557	1,553	3	0.2
Mizoram	100	99	1	0.8	643	635	8	1.2	497	488	9	1.7
Nagaland	124	123	1	0.8	888	795	93	10.5	794	774	20	2.5
Tripura	292	288	4	1.3	1,863	1,841	22	1.2	2,602	2,553	49	1.9
North-Eastern Region	2,686	2,521	165	6.2	16,691	16,219	472	2.8	16,216	15,763	453	2.8
All India	229,413	228,441	972	0.4	1,274,595	1,267,526	7,070	0.6	1,213,326	1,204,697	8,629	0.7
* Provisional												
# Lakshadweep and Andaman & Nicobar Islands are stand- alone systems, power supply position of these, does not form part of regional requirement and supply.												
Note: Power Supply Position Report has been compiled based on the data furnished by State Utilities/ Electricity Departments.												
