

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.1051
TO BE ANSWERED ON 27.06.2019**

ESTABLISHMENT OF POWER GENERATING SYSTEM

1051. SHRI N.K. PREMACHANDRAN:

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

(a) whether the Government proposes to establish more power generating systems for providing electric power at reasonable low price;

(b) if so, the details thereof and the action taken thereon;

(c) whether it has come to the notice of the Government that lack of power is a reason for slow down of development and establishment of new industries;

(d) if so, the details thereof and the action plan chalked out for increasing power generation;

(e) the details regarding the number of nuclear, thermal, hydroelectric and solar power generating units, State-wise;

(f) whether the Government proposes to give subsidy or financial assistance to the power stations established by the States and if so, the details thereof; and

(g) the details of number of power stations established during the last five years, State-wise?

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) : As on 31.03.2019, conventional power generation capacity of 33,957 MW in the country is at various stages of construction, which includes 25,821 MW of thermal, 4,836 MW Hydro and 3,300 MW of Nuclear.

.....2.

(c) & (d) : The actual power supply position of the country for the year 2018-19 and 2019-20 (upto May, 2019) is given below:

Year	Energy				Peak			
	Energy Requirement	Energy Supplied	Energy Not Supplied		Peak Demand	Peak Met	Demand not Met	
	Million Units	Million Units	Million Units	%	Mega Watt	Mega Watt	Mega Watt	%
2018-19	1,274,595	1,267,526	7,070	0.6	177,022	175,528	1,494	0.8
2019-20 (upto May*19)	229,413	228,441	972	0.4	183,513	182,533	981	0.5

*** Provisional**

At present, enough generation capacity is available to meet the electricity demand of the country. However, there could be demand supply gap in certain areas which is on account of factors other than availability of power in the country.

As per National Electricity Plan Notified in 2018, the all India power generation Installed Capacity by the end of 2021-22 is estimated to be 4,79,418 MW and 6,19,066 MW by the end of 2026-27. With this power generation installed capacity, the electricity demand projected as per 19th Electric Power Survey (EPS) is likely to be fully met.

(e) : The State/UT wise number of Thermal, Hydro and Nuclear power generating units as on 31.05.2019 is given in Annexure-I. The state wise detail of Solar installed capacity is given in Annexure-II.

(f) : Presently, no subsidy or financial assistance is proposed to be given to the power stations established by the State Government.

(g) : State wise List of power stations established during the last five years in the country is given in Annexure-III.

ANNEXURE REFERRED TO IN REPLY TO PART (e) OF UNSTARRED QUESTION NO. 1051 TO BE ANSWERED IN THE LOK SABHA ON 27.06.2019.

Details of State/UT wise number of Thermal, Hydro and Nuclear power generating units (as on 31.05.2019)

State /UTs	Thermal	Hydro	Nuclear
A & N Islands	1		
Andhra Pradesh	23	4	
Arunachal Pradesh		2	
Assam	7	3	
Bihar	5		
Chhattisgarh	28	1	
Delhi	5		
Goa	1		
Gujarat	26	4	1
Haryana	6		
Himachal Pradesh		26	
Jammu & Kashmir	1	12	
Jharkhand	8	4	
Karnataka	9	16	1
Kerala	4	14	
Madhya Pradesh	13	10	
Maharashtra	27	13	1
Manipur	1	1	
Meghalaya		5	
Mizoram		1	
Nagaland		1	
Odisha	7	7	
Puducherry	1		
Punjab	5	9	
Rajasthan	11	4	2
Sikkim		7	
Tamil Nadu	24	27	2
Telangana	7	8	
Tripura	5		
Uttar Pradesh	21	4	1
Uttarakhand	2	16	
West Bengal	20	5	

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STATE WISE SOLAR INSTALLED CAPACITY AS ON 31.05.2019				
(IN MW)				
Sl. No.	State /UTs	Solar Power (MW)		
		Ground Mounted	Roof Top	Total Solar
1	Andhra Pradesh	3230.740	60.020	3290.760
2	Arunachal Pradesh	1.270	4.120	5.390
3	Assam	10.670	16.200	26.870
4	Bihar	138.930	6.020	144.950
5	Chhattisgarh	215.830	15.520	231.350
6	Goa	0.950	3.830	4.780
7	Gujarat	2200.570	363.570	2564.140
8	Haryana	130.800	101.360	232.160
9	Himachal Pradesh	17.000	7.020	24.020
10	Jammu & Kashmir	8.490	6.630	15.120
11	Jharkhand	19.050	17.420	36.470
12	Karnataka	5944.060	190.850	6134.910
13	Kerala	100.000	40.330	140.330
14	Madhya Pradesh	1956.530	35.720	1992.250
15	Maharashtra	1447.300	191.850	1639.150
16	Manipur	0.000	3.470	3.470
17	Meghalaya	0.000	0.120	0.120
18	Mizoram	0.100	0.410	0.510
19	Nagaland	0.000	1.000	1.000
20	Odisha	383.560	13.330	396.890
21	Punjab	828.100	77.520	905.620
22	Rajasthan	3396.640	154.360	3551.000
23	Sikkim	0.000	0.010	0.010
24	Tamil Nadu	2663.480	148.570	2812.050
25	Telangana	3519.270	79.530	3598.800
26	Tripura	5.000	4.410	9.410
27	Uttar Pradesh	899.000	146.100	1045.100
28	Uttarakhand	239.780	70.060	309.840
29	West Bengal	50.000	39.430	89.430
30	Andaman & Nicobar	7.600	4.130	11.730
31	Chandigarh	6.340	28.370	34.710
32	Dadar & Nagar Haveli	2.490	2.970	5.460
33	Daman & Diu	10.150	5.260	15.410
34	Delhi	8.960	123.190	132.150
35	Lakshadweep	0.750	0.000	0.750
36	Puducherry	0.030	3.110	3.140
	Total	27443.440	1965.810	29409.250

ANNEXURE REFERRED TO IN REPLY TO PART (g) OF UNSTARRED QUESTION NO. 1051 TO BE ANSWERED IN THE LOK SABHA ON 27.06.2019.

**LIST OF POWER STATIONS ESTABLISHED DURING THE LAST FIVE YEARS (2014-15 TO 2018-19)
IN THE COUNTRY**

Sl. No	PROJECT NAME	SECTOR	STATE	FUEL TYPE	CAPACITY (MW)
2014-15					
1	Painampuram TPP U-1	P	AP	COAL	660
2	Damodaram Sanjeevaiah TPS U1,2	S	AP	COAL	1600
3	SIMHAPURI PH-II U-4	P	AP	COAL	150
4	MUZAFFARPUR U-3	C	BIHAR	COAL	195
5	BARH STPP ST-II U-5	C	BIHAR	COAL	660
6	SWASTIK KORBA U-1	P	Chhattisgarh	COAL	25
7	Akaltara (Naitara)TPP	P	Chhattisgarh	COAL	600
8	Tamnar TPP U-3,4	P	Chhattisgarh	COAL	1200
9	Raikhera TPP U-1	P	Chhattisgarh	COAL	685
10	SALORA TPP U1	P	Chhattisgarh	COAL	135
11	BADADARHA U-2	P	Chhattisgarh	COAL	600
12	SIKKA TPP EXTN. U-3	S	GUJARAT	COAL	250
13	DGEN MEGA CAPP MODULE 3	P	GUJARAT	GAS	400
14	DHUVRAN CAPP-III	S	GUJARAT	GAS	376.1
15	PARBATI III HEP U4	C	HP	HYDRO	130
16	RAMPUR HEP U 3,4,6	C	HP	HYDRO	206.01
17	KOLDAM HEP U-1,2	C	HP	HYDRO	400
18	DHARIWAL TPP U2	P	Maharashtra	COAL	300
19	Tirora TPP, P-II Unit 3	P	Maharashtra	COAL	660
20	Amravati TPP Phase-1 U3,4,5	P	Maharashtra	COAL	810
21	CHANDRAPUR U-8	S	Maharashtra	COAL	500
22	KORADI TPS EXTN. U-8	S	Maharashtra	COAL	660
23	SASAN UMPP U3,5,6	P	MP	COAL	1980
24	Nigri TPP U1,2	P	MP	COAL	1320
25	Shree Singhaji TPP U-2	S	MP	COAL	600
26	Derang TPP U-1,2	P	Odisha	COAL	1200
27	TALWANDI SABO TPP U1	P	PUNJAB	COAL	660
28	RAJPURA TPP U2	P	PUNJAB	COAL	700
29	RAMGARH ST	S	Rajasthan	GAS	50
30	KALISINDH TPP U1	S	Rajasthan	COAL	600
31	Chhabra TPP Ext U4	S	Rajasthan	COAL	250
32	Mutiara TPP U-1	P	TAMIL NADU	COAL	600
33	TUTICORIN JV U-1	C	TAMILNADU	COAL	500
34	NLC TPP-2 EXPN. U-2	C	TN	COAL	250
35	Kudankulam U-1	C	TN	NUCLEAR	1000
36	AGARTALA CAPP ST-I	C	TRIPURA	GAS	25.5
37	MONARCHAK CAPP	C	TRIPURA	GAS	65.4
38	Tripura CCGT,BLK-2	C	TRIPURA	GAS	363.3
39	Haldia TPP U-1,2	P	W.B.	COAL	600
40	Raghunathpur TPP, Ph-I	C	WB	COAL	600
2015-16					
1	Kondapalli Stg III-A (U-1,2)	P	Andhra Pradesh	Gas	742
2	PAINAMPURAM TPP U-2	P	Andhra Pradesh	Coal	660
3	GMR RAJAHMUNDRY ENERGY LTD. BLOCK-1,2	P	Andhra Pradesh	GAS	768
4	Vizag TPP U-1,2	P	Andhra Pradesh	Coal	1040
5	Bongaigaon TPP U-1	C	Assam	Coal	250
6	NABI NAGAR TPP EXP. U-1	C	Bihar	Coal	250
7	Bandakhar TPP U-1	P	Chhattisgarh	Coal	300
8	Balco TPP U-1,2	P	Chhattisgarh	Coal	600

9	Uchpinda TPP,U-1,2	P	Chhattisgarh	Coal	720
10	RAIKHEDA TPP U-2	P	Chhattisgarh	Coal	685
11	SIKKA TPS EXTN. U-4	S	Gujarat	Coal	250
12	KOLDAM U-3,4	C	Himachal Pradesh	HYDRO	400
13	BAGLIHAR STAGE -II U-1,2	S	J&K	HYDRO	300
14	BAGLIHAR STAGE-II U-3	S	J&K	HYDRO	150
15	BOKARAO TPS "A"EXP U-1	C	JHARKHAND	Coal	500
16	BELLARY TPP ST-III U-3	S	KARNATAKA	Coal	700
17	YERMARUS TPP U-1	S	KARNATAKA	Coal	800
18	MOUDA STPP-II U-3	C	MAHARASHTRA	Coal	660
19	CHANDRAPUR TPS EXTN. U-9	S	MAHARASHTRA	Coal	500
20	KORADI TPS EXPN. U-9	S	MAHARASHTRA	Coal	660
21	PARLI TPS U-8	S	MAHARASHTRA	Coal	250
22	Anuppur TPP U-1,2	P	MP	Coal	1200
23	Vindhyachal stpp st-V U-13	C	MP	Coal	500
24	SEIONI TPP PH-I U-1	P	MP	Coal	600
25	Ind Barath Energy Pvt. Ltd. TPP U1	P	Odisha	Coal	350
26	Talwandi Sabo U-2,3	P	Punjab	Coal	1320
27	Goindwal Sahib TPP U-1,2	P	Punjab	Coal	540
28	Kalisindhi STPP U-2	S	Rajasthan	Coal	600
29	JORETHANG LOOP U-1,2	P	SIKKIM	HYDRO	96
30	TUTICORIN JV U-2	C	Tamil Nadu	Coal	500
31	ITPCL TPP Unit-I	P	Tamil Nadu	Coal	600
32	Mutiara TPP ,U-2	P	Tamil Nadu	Coal	600
33	Kakatiya TPP St-II U-I	S	Telangana	Coal	600
34	SINGARENI TPP U-1	S	Telangana	Coal	600
35	LOWER JURALA U-1,2,3,4	S	Telangana	HYDRO	160
36	Tripura CCGT,Monarchak	C	Tripura	GAS	35.6
37	Anpara D TPP U-6,7	S	UP	Coal	1000
38	Prayagraj (Bara)TPP U-I	P	UP	Coal	660
39	Lalitpur TPP U-1,2	P	UP	Coal	1320
40	SRINAGAR U-1,2,3,4	P	UTTARAKHAND	HYDRO	330
41	Sagardighi TPP EXTN. U-3	S	WB	Coal	500
42	Raghunathpur TPP Ph-I U-2	C	WB	Coal	600
43	TEESTA LOW DAM STAGE-IV U-1,2	C	WB	HYDRO	80

2016-17

1	Nagarjuna sagar TR U-1,U-2	S	Andhra Pradesh	Hydro	50
2	Sembcorp Gayatri Pvt. Ltd. U-1 & U-2	P	Andhra Pradesh	Coal	930
3	Bongaigaon TPP U-2	C	Assam	Coal	250
4	Namrup CCGT	S	ASSAM	GAS	62.25
5	Kanti TPS U-2	C	Bihar	Coal	195
6	Ratija TPP U-2	P	Chhattisgarh	Coal	50
7	Marwa TPP U-2	S	Chhattisgarh	Coal	500
8	Nawapara U-1	P	Chhattisgarh	Coal	300
9	Bhavnagar Lignite Based TPP U-1 & U2	S	Gujarat	Coal	500
10	Kashang HEP -I	S	H.P.	Hydro	65
11	Chanju-I U-1,U-2	P	HP	Hydro	24
12	Kashang HEP-II & III U-1,2	S	HP	Hydro	130
13	Kudgi TPP u-1,2	C	Karnataka	Coal	1600
14	Yermarus TPP U-2	S	Karnataka	Coal	800
15	Koradi TPP U-10	S	Maharashtra	Coal	660
16	Mangaon CCPP	P	Maharashtra	Gas	388
17	Mauda STPP-II U-4	C	Maharashtra	Coal	660
18	NASIK TPP PH-I U-2	P	Maharashtra	COAL	660
19	Teesta-III U-1,2,3,4,5,6	S	Sikkim	Hydro	1200
20	CUDDALORE ITPCL TPP U-2	P	Tamil Nadu	Coal	600
21	Kudankulam U-2	C	Tamil Nadu	Nuclear	1000
22	Lower Jurala U-5,U-6	S	Telangana	Hydro	80
23	Pulichintala u-1	S	Telangana	Hydro	30

24	Singareni U-2	S	Telangana	Coal	600
25	Agartala Gas Based Power Project ST-1	C	TRIPURA	Gas	25.5
26	Lalitpur STPP U-3	P	Uttar Pradesh	Coal	660
27	BARA TPP U-2	P	Uttar Pradesh	Coal	660
28	Unchahar TPS ST-iv U-6	C	Uttar Pradesh	Coal	500
29	Gama CAPP,Block-I	P	Uttarakhand	Gas	225
30	Kashipur CAPP Block-1	P	Uttarakhand	Coal	225
31	Sagardighi TPS-II u-4	S	West Bengal	Coal	500
32	Teesta Low Dam Stage IV U-3,U-4	C	West Bengal	Hydro	80

2017-18

1	PULICHINTALA U-2 & U-3	S	ANDHRA PRADESH	HYDRO	60
2	RAYAL SEEMA TPP UNIT 6	S	ANDHRA PRADESH	Coal	600
3	BARAUNI EXT TPP UNIT 9	S	BIHAR	Coal	250
4	BTPS EXTN UNIT 8	s	Bihar	Coal	250
5	NABI NAGAR TPP U-2	C	BIHAR	Coal	250
6	Akaltara (nariyara)	p	CHHATTISGARH	Coal	600
7	BINJKOTE TPP U-1 & U-2	P	CHHATTISGARH	Coal	600
8	LARA TPP UNIT 1	C	CHHATTISGARH	Coal	800
9	NAWAPARA TPP U-2	P	CHHATTISGARH	Coal	300
10	UCHPINDA TPP U-3	P	CHHATTISGARH	Coal	360
11	CHANJU-I U-3	P	HIMACHAL PRADESH	HYDRO	12
12	SAINJ HEP U-1 & U-2	S	HIMACHAL PRADESH	HYDRO	100
13	KISHAN GANGA HEP U 1 to U-3	C	J&K	HYDRO	330
14	KUDGI STPP PH-I, UNIT 3	C	Karnataka	Coal	800
15	NASIK TPP PH-I U-3 to U 5	P	MAHARASHTRA	Coal	810
16	SHIRPUR TPP U-1	p	MAHARASHTRA	Coal	150
17	SOLAPUR STPP U-1	C	MAHARASHTRA	Coal	660
18	NEW UMTRU U-1 & U-2	S	MEGHALAYA	HYDRO	40
19	TUIRIAL HEP U-1 & U-2	C	MIZORAM	HYDRO	60
20	CHHABRA SCTPP U-5	S	RAJASTHAN	Coal	660
21	DIKCHU U-1 & U-2	P	SIKKIM	HYDRO	96
22	TASHIDING U-1 & U-2	P	SIKKIM	HYDRO	97
23	BARA TPP U-3	P	UTTAR PRADESH	Coal	660
24	MEJA STPP UNIT 1	C	UTTAR PRADESH	Coal	660
25	Haldia, IPCL Unit 2	P	WB	Coal	150
26	INDIA POWER TPP (HALDIA) U-1	P	WB	Coal	150

2018-19

1	PARE, U 1 & U 2	C	ARUNACHAL PRADESH	Hydro	110
2	LAKWA REPLACEMENT POWER PROJECT U 1-7	S	ASSAM	Gas	69.755
3	BONGAIGAON TPP U-3	C	ASSAM	Coal	250
4	NABINAGAR TPS U-3	C	BIHAR	Coal	250
5	UCHPINDA TPP U-4	P	CHHATTISGARH	Coal	360
6	MAHAN TPP, UNIT-2	P	MADHYA PRADESH	Coal	600
7	SHREE SINGHAJI TPP (PHASE-II) U-3 & U-4	S	MADHYA PRADESH	Coal	1320
8	GADARWARA TPP U-1	C	MADHYA PRADESH	Coal	800
9	SOLAPUR STPP U-2	C	MAHARASTRA	Coal	660
10	CHHABRA TPP EXTN. U-6	S	RAJASTHAN	Coal	660
11	PULICHINTALA HEP, U-4	S	TELANGANA	Hydro	30
12	KOTHAGUEDEM TPS STAGE VII	S	TELANGANA	Coal	800
13	DISHERGARH TPP	P	WEST BENGAL	Coal	12

C: Central Sector, S: State Sector, P: Private Sector
