

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.3762
TO BE ANSWERED ON 03.01.2019**

POWER GENERATION AND CONSUMPTION

3762. SHRI K.N. RAMACHANDRAN:

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

- (a) the steps taken by the Government in last three years to increase the generation of electricity, the details thereof;**
- (b) the number of power houses established in last three years, the details of the coal, gas, water and nuclear based power plants; and**
- (c) the details of the consumption and generation of electricity at present and last three years, if so, the details thereof?**

A N S W E R

**THE MINISTER OF STATE (INDEPENDENT CHARGE) FOR POWER
AND NEW & RENEWABLE ENERGY**

(SHRI R. K. SINGH)

(a) : The following steps has been taken by Government of India to increase the generation of electricity:

- (i) During last three years 2015-16 to 2017-18 and current year 2018 (upto November, 2018),the Generation capacity of 83,519 MW comprising of 49,161 MW from the conventional sources and 34,358 MW from renewable sources have been added.**
- (ii) During last three years 2015-16 to 2017-18 and current year 2018 (upto November, 2018), 90,767ckm of transmission lines and 2,76,338 MVA of transformation capacity have been completed. This has facilitated evacuation of power from Generating Stations to the consumers. The inter-regional transmission capacity of 52,700 MW has been added during last three years 2015-16 to 2017-18 and current year 2018 (upto November, 2018). Due to this, electricity can now be seamlessly transferred from anywhere to anywhere in the country.**

(iii) Government of India is assisting states through schemes like Deendayal Upadhyaya Gram Jyoti Yojana (DDUGJY) Integrated Power Development Scheme (IPDS) and Saubhagya etc. for strengthening of sub-transmission and distribution networks and for segregation of agricultural feeders to give adequate and reliable supply of power to consumers.

(iv) Government of India has taken steps for expeditious resolution of issues relating to Environmental and forest clearances for facilitating early completion of generation and transmission projects.

(b) : The details of power projects commissioned during last three years i.e. 2015-16, 2016-17, 2017-18 and current year 2018 (upto November, 2018) are given at Annexure-I.

(c) : The details of generation and electrical energy supplied during last three years are given at Annexure-II.

ANNEXURE-I

ANNEXURE REFERRED TO IN REPLY TO PART (b) OF UNSTARRED QUESTION NO. 3762 TO BE ANSWERED IN THE LOK SABHA ON 03.01.2019.

LIST OF PROJECTS COMMISSIONED DURING 2015-16

Sl. No.	PROJECT NAME	TYPE	CAPACITY (MW)
	THERMAL PROJECTS		
1	Anuppur TPP U-1,2	Coal	1200
2	Bandakhar TPP U-1	Coal	300
3	Balco TPP U-1,2	Coal	600
4	Anpara D TPP U-6,7	Coal	1000
5	Kalisindhi STPP U-2	Coal	600
6	Bongaigaon TPP U-1	Coal	250
7	TUTICORIN JV U-2	Coal	500
8	Kondapalli Stg III-A (U-1,2)	Gas	742
9	Vindhyachalstppst-V U-13	Coal	500
10	PAINAMPURAM TPP U-2	Coal	660
11	GMR RAJAHMUNDRY ENERGY LTD. BLOCK-1,2	GAS	768
12	SIKKA TPS EXTN. U-4	Coal	250
13	Uchpinda TPP,U-1,2	Coal	720
14	Talwandi Sabo U-2,3	Coal	1320
15	ITPCL TPP Unit-I	Coal	600
16	Kakatiya TPP St-II U-I	Coal	600
17	Sagardighi TPP EXTN. U-3	Coal	500
18	Prayagraj (Bara)TPP U-I	Coal	660
19	Vizag TPP U-1,2	Coal	1040
20	Tripura CCGT, Monarchak	GAS	35.6
21	Raghunathpur TPP Ph-I U-2	Coal	600
22	Mutiara TPP ,U-2	Coal	600
23	Lalitpur TPP U-1,2	Coal	1320
24	Goindwal Sahib TPP U-1,2	Coal	540
25	Ind Barath Energy Pvt. Ltd. TPP U1	Coal	350
26	NABI NAGAR TPP EXP. U-1	Coal	250
27	BOKARAO TPS "A"EXP U-1	Coal	500
28	MOUDA STPP-II U-3	Coal	660
29	BELLARY TPP ST-III U-3	Coal	700
30	CHANDRAPUR TPS EXTN. U-9	Coal	500
31	KORADI TPS EXPN. U-9	Coal	660
32	SINGARENI TPP U-1	Coal	600
33	YERMARUS TPP U-1	Coal	800
34	PARLI TPS U-8	Coal	250
35	RAIKHEDA TPP U-2	Coal	685
36	SEIONI TPP PH-I U-1	Coal	600
	TOTAL (THERMAL)		22460.6
	HYDRO PROJECTS		
37	KOLDAM U-3,4	HYDRO	400
38	SRINAGAR U-1,2,3,4	HYDRO	330
39	BAGHLIHAR STAGE -II U-1,2	HYDRO	300
40	JORETHANG LOOP U-1,2	HYDRO	96
41	LOWER JURALA U-1,2,3,4	HYDRO	160
42	BAGLIHAR STAGE-II U-3	HYDRO	150
43	TEESTA LOW DAM STAGE-IV U-1,2	HYDRO	80
	TOTAL (HYDRO)		1516
	GRAND TOTAL (THERMAL+HYDRO)		23976.6

PROJECTS COMMISSIONED DURING THE YEAR 2016-17

Sl. No.	PROJECT NAME	TYPE	Capacity (MW)
	THERMAL PROJECTS		
1	Lalitpur STPP U-3	COAL	660
2	CUDDALORE Itpcl Tpp U-2	COAL	600
3	Bhavnagar Lignite Based Tpp U-1, 2	COAL	500
4	Gama CCPP, Block-I	GAS	225
5	Mangaon CCPP	GAS	388
6	Marwa TPP U-2	COAL	500
7	Nawapara U-1	COAL	300
8	Agartala Gas Based Power Project ST-1	GAS	25.5
9	BARA TPP U-2	COAL	660
10	Sembcorp Gayatri Pvt. Ltd. U-1, 2	COAL	1320
11	Ratija TPP U-2	COAL	50
12	Kashipur Ccpp Block-1	GAS	225
13	Singareni U-2	COAL	600
14	Sagardighi TPS-II U-4	COAL	500
15	Koradi TPP U-10	COAL	660
16	Kudgi TPP U-1, 2	COAL	1600
17	Namrup CCGT	GAS	62.25
18	NASIK TPP PH-I,U-2	COAL	270
19	Mauda STPP-II U-4	COAL	660
20	Bongaigaon TPP U-2	COAL	250
21	Kanti TPS U-2	COAL	195
22	Yermarus TPP U-2	COAL	800
23	Unchahar TPS ST-Iv U-6	COAL	500
	Total (Thermal)		11550.75
	HYDRO PROJECTS		
24	Teesta Low Dam IV U-3, 4	HYDRO	80
25	Lower Jurala U-5, 6	HYDRO	80
26	Kashang HEP-II & III U-1, 2	HYDRO	130
27	Pulichintala U-1	HYDRO	30
28	Teesta-III U-1,2,3,4,5,6	HYDRO	1200
29	Kasang HEP-II & III U-2	HYDRO	65
30	NagarjunaSagar TR U-1, 2	HYDRO	50
31	CHANJU-I U-1,2	HYDRO	24
	TOTAL (HYDRO)		1659
	NUCLEAR PROJECTS		
32	KUDANKULAM U-2	NUCLEAR	1000
	GRAND TOTAL (Thermal + Hydro + Nuclear)		14209.75

PROJECTS COMMISSIONED DURING THE YEAR 2017-18

Sl. No	PROJECT NAME	FUEL TYPE	CAPACITY (MW)
1	PULICHINTALA U-2 & U-3	HYDRO	60
2	RAYAL SEEMA TPP UNIT 6	Coal	600
3	BARAUNI EXT TPP UNIT 9	Coal	250
4	BTPS EXTN UNIT 8	Coal	250
5	NABI NAGAR TPP U-2	Coal	250
6	Akaltara (nariyara)	Coal	600
7	BINJKOTE TPP U-1 & U-2	Coal	600
8	LARA TPP UNIT 1	Coal	800
9	NAWAPARA TPP U-2	Coal	300
10	UCHPINDA TPP U-3	Coal	360
11	CHANJU-I U-3	HYDRO	12
12	SAINJ HEP U-1 & U-2	HYDRO	100
13	KISHAN GANGA HEP U 1 to U-3	HYDRO	330
14	KUDGI STPP PH-I, UNIT 3	Coal	800
15	NASIK TPP PH-I U-3 to U 5	Coal	810
16	SHIRPUR TPP U-1	Coal	150
17	SOLAPUR STPP U-1	Coal	660
18	NEW UMTRU U-1 & U-2	HYDRO	40
19	TUIRIAL HEP U-1 & U-2	HYDRO	60
20	CHHABRA SCTPP U-5	Coal	660
21	DIKCHU U-1 & U-2	HYDRO	96
22	TASHIDING U-1 &U-2	HYDRO	97
23	BARA TPP U-3	Coal	660
24	MEJA STPP UNIT 1	Coal	660
25	Haldia, IPCL Unit 2	Coal	150
26	INDIA POWER TPP (HALDIA) U-1	Coal	150
TOTAL (2017-18)			9505

PROJECTS COMMISSIONED DURING THE YEAR 2018-19 (upto November, 2018)

Sl. No	PROJECT NAME	FUEL TYPE	CAPACITY (MW)
1	PARE, U 1 & U 2	HYDRO	110
2	LAKWA REPLACEMENT POWER PROJECT U 1-7	Gas	69.755
3	MAHAN TPP, UNIT-2	Coal	600
4	SHREE SINGHAJI TPP (PHASE-II) U-3	Coal	660
5	PULICHINTALA HEP, U-4	HYDRO	30
TOTAL (2018-19) (As on 30.11.2018)			1469.755

ANNEXURE-II

ANNEXURE REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 3762 TO BE ANSWERED IN THE LOK SABHA ON 03.01.2019.

All India Generation in Billion Units (BU) during last three Years:

	Electricity Generation (In BU)			
	2015-16	2016-17	2017-18	2018-19 (upto November)
Conventional sources	1107.822	1160.140	1206.306	849.202
Renewable Energy Sources	65.78085	815.4821	101.839	88.945
Total	1173.60313	1241.689	1308.146	938.148

***Generation data from Renewable Energy sources is Provisional.**

All India electrical energy supplied in Billion Units (BU) during last three years:

Year	Electricity Supplied (In BU)
2014-15	1,030.785
2015-16	1,090.850
2016-17	1,135.332
