

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.3707
TO BE ANSWERED ON 09.08.2018**

POWER GENERATION THROUGH VARIOUS SOURCES

3707. DR. A. SAMPATH:

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

- (a) whether the Government has any estimate on the generation of power through various sources by the year 2020;**
- (b) if so, the details thereof including the installed capacity and the present percentage of utilization;**
- (c) the details of industrial, household, service sector consumption etc.; and**
- (d) the details of all the incomplete hydro-electric projects in the country?**

A N S W E R

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

(SHRI R. K. SINGH)

(a) & (b) : The expected installed power generation capacity under various sources by March 2022 is given at Annex-I.

As on 30.06.2018, the installed generation capacity is about 344 Giga Watt (GW). The peak demand during the current year 2018-19 was 170 GW. Further, during the current year 2018-19 (upto June, 2018), the average Plant Load Factor of coal and lignite based power stations has improved to 63.24% from 61.23% during the same period of last year.

(c) : Category-wise and State-wise Electricity consumption for year 2016-17 is given at Annex-II.

(d) : As on 31.07.2018, there are 38 nos. of under construction Hydro Electric Projects (above 25 MW) aggregating to 12208.50 MW. The State wise details of these projects are given at Annex-III.

ANNEX-I

ANNEX REFERRED TO IN REPLY TO PARTS (a) & (b) OF UNSTARRED QUESTION NO. 3707 TO BE ANSWERED IN THE LOK SABHA ON 09.08.2018.

Installed generation capacity under various sources by March 2022

Source	Capacity (MW)
Coal and Lignite	217,302
Hydro	51,301
Gas	25,735
Nuclear	10,080
Renewable Energy Sources (RES)	175,000
Total	479,418

ANNEX REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 3707 TO BE ANSWERED IN THE LOK SABHA ON 09.08.2018.

ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORYWISE/STATEWISE UTILITIES & NON-UTILITIES 2016-17					
					(GWh)
State/UTs	Domestic	Commercial	Industrial Power		Public Lighting
			(Low & Med. Voltage)	(High Voltage)	
Chandigarh	719.20	497.84	135.48	129.08	21.43
Delhi	14086.66	7290.32	3053.44	37.60	494.40
Haryana	7395.65	5341.45	1642.38	9405.54	102.55
Himachal Pradesh	1937.93	528.24	208.13	4451.50	12.99
Jammu & Kashmir	3272.06	1023.80	514.19	1018.85	52.80
Punjab	13047.33	3719.32	3271.90	12778.14	186.57
Rajasthan	11496.82	4273.11	3004.88	18382.56	330.35
Uttar Pradesh	33239.31	5613.82	5643.95	23748.35	977.56
Uttarakhand	2595.00	1198.00	311.00	7131.70	46.65
Sub Total (NR)	87789.95	29485.91	17785.35	77083.33	2225.30
Chhattisgarh	4938.82	1448.59	519.52	23352.40	106.69
Gujarat	13889.84	2954.02	15737.96	59769.62	348.45
Madhay Pradesh	11184.35	2829.98	1240.82	11956.04	420.85
Maharashtra	26870.37	13367.61	9331.25	31297.23	1837.68
Daman & Diu	96.01	44.32	171.30	1405.36	7.89
D & N Haveli	104.46	30.36	211.70	5370.90	8.28
Goa	880.59	368.45	160.75	2074.57	36.95
Sub Total (WR)	57964.44	21043.33	27373.30	135226.12	2766.80
Andhra Pradesh	12383.07	3185.84	3833.28	15922.26	395.18
Telangana	10055.86	4956.21	1146.23	12449.55	534.59
Karnataka	11829.43	6262.74	1694.69	25705.78	974.37
Kerala	10340.27	4389.22	1135.73	3561.04	378.48
Tamil Nadu	24529.53	9300.08	7880.78	31832.29	1202.33
Puducherry	659.73	186.94	172.42	1415.13	26.99
Lakshadweep	35.02	11.55	0.42	0.00	0.61
Sub Total (SR)	69832.91	28292.58	15863.54	90886.06	3512.55
Bihar	8443.32	1702.15	565.98	2403.68	32.28
Jharkhand \$	4918.62	527.90	210.67	17721.01	146.70
Orissa	6894.16	1560.50	324.71	32533.35	92.85
West Bengal \$	14301.50	5725.69	2132.16	16771.70	522.09
Sikkim	164.09	41.07	1.61	205.86	0.33
A & N Islands	139.08	65.57	16.88	0.00	10.30
Sub Total (ER)	34860.78	9622.89	3252.01	69635.59	804.55
Arunachal Pradesh	147.96	44.47	4.35	101.98	10.94
Assam	3425.00	1011.00	96.00	2159.99	17.00
Manipur	330.43	43.54	14.32	7.36	3.46
Meghalaya	396.45	87.15	5.06	588.41	0.45
Mizoram	233.90	33.87	1.64	8.83	4.89
Nagaland	342.00	82.58	61.29	0.00	14.60
Tripura	502.19	77.62	26.31	24.67	38.59
Sub Total (NER)	5377.93	1380.23	208.98	2891.24	89.92
Total(All India)	255826.01	89824.93	64483.18	375722.34	9399.12

Note: \$ - Includes DVC's sales to ultimate consumers in Jharkhand & West Bengal area

ELECTRICAL ENERGY SALES TO ULTIMATE CONSUMERS CATEGORYWISE/STATEWISE UTILITIES & NON-UTILITIES 2016-17					
(GWh)					
State/UTs	Traction	Agriculture	Public Water Works & Sewage Pumping	Miscella- neous	Total Energy Sold
Chandigarh	0.00	4.23	(B)	83.94	1591.20
Delhi	71.37	28.88	602.80	941.32	26606.79
Haryana	359.57	9708.81	806.50	795.48	35557.92
Himachal Pradesh	0.00	57.28	551.01	324.83	8071.91
Jammu & Kashmir	0.00	313.00	615.00	1095.00	7904.70
Punjab	197.25	12195.97	503.63	722.98	46623.09
Rajasthan	373.59	21361.21	1503.00	675.39	61400.90
Uttar Pradesh	1657.25	15638.04	1814.71	2911.74	91244.74
Uttarakhand	19.76	141.71	366.00	567.50	12377.32
Sub Total (NR)	2678.79	59449.13	6762.64	8118.19	291378.58
Chhattisgarh	900.62	4290.38	288.06	38.78	35883.86
Gujarat	652.93	16758.62	1959.05	671.14	112741.64
Madhya Pradesh	1827.00	17331.65	1431.94	1774.46	49997.10
Maharashtra	2297.80	28201.84	2510.32	12228.64	127942.74
Daman & Diu	0.00	2.72	3.22	8.19	1739.01
D & N Haveli	0.00	6.20	4.55	3.20	5739.65
Goa	0.00	29.94	0.00	49.32	3600.57
Sub Total (WR)	5678.35	66621.35	6197.14	14773.74	337644.57
Andhra Pradesh	1240.27	13296.61	511.63	1021.26	51789.40
Telangana	553.42	15676.32	533.53	1687.76	47593.48
Karnataka	67.61	21625.35	2733.36	949.48	71842.82
Kerala	227.94	331.56	0.00	678.67	21042.89
Tamil Nadu	852.24	11733.40	1202.33	3179.61	91712.59
Puducherry	0.00	59.17	0.00	149.10	2669.48
Lakshadweep	0.00	0.00	0.00	0.00	47.59
Sub Total (SR)	2941.48	62722.41	4980.84	7665.88	286698.26
Bihar	626.35	409.28	81.28	3326.42	17590.74
Jharkhand \$	1259.66	110.39	83.77	502.56	25481.28
Orissa	1103.74	327.04	140.57	780.48	43757.42
West Bengal \$	1394.38	1433.61	877.91	3332.48	46491.52
Sikkim	0.00	0.00	0.55	23.06	436.57
A & N Islands	0.00	0.00	0.00	34.00	265.83
Sub Total (ER)	4384.13	2280.32	1184.08	7999.01	134023.35
Arunachal Pradesh	0.00	0.04	0.00	61.09	370.82
Assam	0.00	36.00	87.00	594.00	7425.99
Manipur	0.00	0.96	23.51	88.34	511.92
Meghalaya	0.00	0.10	34.59	133.29	1245.50
Mizoram	0.00	0.00	49.95	20.46	353.54
Nagaland	0.00	0.02	9.24	125.10	634.83
Tripura	0.00	40.55	81.92	103.42	895.27
Sub Total (NER)	0.00	77.67	286.21	1125.70	11437.87
Total(All India)	15682.75	191150.89	19410.91	39682.51	1061182.64

**ANNEX REFERRED TO IN REPLY TO PART (d) OF UNSTARRED QUESTION NO. 3707
TO BE ANSWERED IN THE LOK SABHA ON 09.08.2018.**

**List of Under Construction Hydro Electric Projects in the Country (above 25 MW)
State wise Details of Rivers & Basin**

Sl. No.	Name of Scheme (Executing Agency)	Cap. Under Execution (MW)
Andhra Pradesh		
1	Polavaram (APGENCO/ Irrigation Dept., A.P.)	960.00
Sub-total: Andhra Pradesh		960.00
Arunachal Pradesh		
2	Kameng (NEEPCO)	600.00
3	Subansiri Lower (NHPC)	2000.00
4	Gongri (Dirang Energy)	144.00
Sub-total: Arunachal Pradesh		2744.00
Himachal Pradesh		
5	Parbati St. II (NHPC)	800.00
6	Uhl-III (BVPCL)	100.00
7	Sawra Kuddu (HPPCL)	111.00
8	Shongtong Karcham (HPPCL)	450.00
9	Bajoli Holi (GMR)	180.00
10	Sorang (HSPCL)	100.00
11	Tangnu Romai (TRPG)	44.00
12	Tidong-I (NSL Tidong)	100.00
Sub-total: Himachal Pradesh		1885.00
Jammu & Kashmir		
13	PakalDul (CVPPL)	1000.00
14	Parnai (JKSPDC)	37.50
15	Lower Kalnai (JKSPDC)	48.00
16	Ratle (RHEPPL)	850.00
Sub-total: Jammu & Kashmir		1935.50
Kerala		
17	Pallivasal (KSEB)	60.00
18	Thottiyar (KSEB)	40.00
Sub-total: Kerala		100.00
Madhya Pradesh		
19	Maheshwar (SMHPCL)	400.00
Sub-total: Madhya Pradesh		400.00
Maharashtra		
20	Koyna Left Bank (WRD,MAH)	80.00
Sub-total: Maharashtra		80.00
Punjab		
21	Shahpurkandi (PSPCL/ Irrigation Deptt.,Pb.)	206.00
Sub-total: Punjab		206.00

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	Sikkim	
22	Bhasmey (Gati Infrastructure)	51.00
23	Rangit-IV (JAL Power)	120.00
24	Rangit-II (Sikkim Hydro)	66.00
25	Rongnichu (Madhya Bharat)	96.00
26	Teesta St. VI (LANCO)	500.00
27	Panan (Himagiri)	300.00
	Sub-total: Sikkim	1133.00
	Tamil Nadu	
28	Kundah Pumped Storage	125.00
	Sub-total: Tamil Nadu	125.00
	Telangana	
29	Pulichintala (TSGENCO) (3 units Comm.)	30.00
	Sub-total: Telangana	30.00
	Uttarakhand	
30	Lata Tapovan (NTPC)	171.00
31	Tapovan Vishnugad (NTPC)	520.00
32	Tehri PSS (THDC)	1000.00
33	Vishnugad Pipalkoti (THDC)	444.00
34	Naitwar Mori (SJVNL)	60.00
35	Vyasi (UJVNL)	120.00
36	Phata Byung (LANCO)	76.00
37	Singoli Bhatwari (L&T)	99.00
	Sub-total: Uttarakhand	2490.00
	West Bengal	
38	Rammam-III (NTPC)	120.00
	Sub-total: West Bengal	120.00
	Total:	12208.50
