

**GOVERNMENT OF INDIA
MINISTRY OF POWER**

**LOK SABHA
UNSTARRED QUESTION NO.1111
TO BE ANSWERED ON 21.12.2017**

DEMAND AND SUPPLY OF POWER

**†1111. SHRI HARISH CHANDRA AL/AS HARISH DWIVEDI:
SHRI R. DHRUVA NARAYANA:
SHRI D.K. SURESH:
SHRI JANARDAN SINGH SIGRIWAL:
SHRI NALIN KUMAR KATEEL:
SHRI RAJU SHETTY:**

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

- (a) the installed capacity of power generation in the Central/State/private sectors and the percentage of power being generated under different sources in the country, separately during the year 2017-18, State/UT-wise;**
- (b) whether the installed power generation capacity is enough to meet the rapidly increasing demand of power in the country, if so, the details thereof and if not, the reasons therefor;**
- (c) the targets set and achieved for power generation from different sources during the year 2015-16, 2016-17 and 2017-18 including the details of power generation from coal gas during the first half of 2017-18 as compared to the previous year along with the reasons for decline in the quantity of power generation, if any;**
- (d) the power generation capacity added in the country in various sectors during the last year and the steps being taken and the future plans chalked out by the Government to augment the power generation capacity as well as to meet the growing demand of power in the country as well as to make the country power surplus including Bihar;**
- (e) the steps being taken by the Government to improve the power infrastructure in the country including Bihar and the power projects likely to be made operational in the country during 2017-18; and**
- (f) the details of the proposals for setting up of power projects pending with the Government from various States and the time by which those are likely to be cleared, State/UT-wise?**

A N S W E R

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

(SHRI R. K. SINGH)

- (a): The details of installed capacity of power generation in the Central/State/Private sectors and the percentage of power being generated under different sources in the country, during the year 2017-18 (upto November, 2017) are furnished at Annex-I and State/UTs-wise generation is given at Annex-II.**

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(b) : Yes, Madam. Sufficient generation capacity is available to meet the demand of electricity. However, some States are not able to meet demand of electricity due to intrastate transmission/distribution/financial constraints.

(c) : The source-wise details of targets fixed for power generation with actual quantity of power generated during 2015-16, 2016-17 and 2017-18 (upto November, 2017) including the details of power generation from coal and gas during the first half of 2017-18 as compared to the previous year is given at Annex-III.

(d) : During 2016-17, 25,530 MW power generation capacity (14,210 MW from Conventional Sources and 11,320 MW from Renewable sources) was added in the country. At present, there is surplus generation capacity in the country and as per the draft National Electricity Plan, the Installed generation capacity would increase to about 479 GigaWatt by 2021-22.

(e) : The Central Government supplements the efforts of the State Governments by establishing power plants in the Central Sector through Central Power Sector Undertakings (CPSUs) for the purpose of power generation and allocating power there from to them. The Central Government provides assistance to the States/UTs through various schemes, like Deen Dayal Upadhyaya Gram Jyoti Yojana (DDUGJY), Integrated Power Development Scheme (IPDS) and Power System Development Fund (PSDF).

A total of 13171 MW power projects has been planned to be made operational during 2017-18, out of which total of 4765 MW power projects have been made operational in the country (upto November, 2017).

(f) : As per the Electricity Act, 2003, electricity generation is a delicensed activity and any State or generating company may establish a generating station.

However, hydro projects need Techno-economic Clearance. Presently, 11 DPRs of Hydroelectric schemes with an aggregate installed capacity of 4439 MW are under examination in various appraising groups of Central Electricity Authority (CEA), Central Water Commission (CWC), Geological Survey of India (GSI), Central Soil and Materials Research Station (CSMRS) & Ministry of Water Resources, River Development and Ganga Rejuvenation (MoWR, RD&GR) for accord of concurrence/appraisal by CEA. The details of the same are given at Annex-IV.

ANNEX-I

**ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1111
TO BE ANSWERED IN THE LOK SABHA ON 21.12.2017.**

INSTALLED CAPACITY (SECTORWISE) OF POWER GENERATION AS ON 30.11.2017

	SECTOR	COAL	GAS	DISEAL	THERMAL	NUCLEAR	HYDRO	R.E.S*	TOTAL
ALL INDIA	STATE	63780.50	7078.95	363.93	71223.38	0.00	29858.00	1976.90	103058.27
	PRIVATE	74496.00	10580.60	473.70	85550.30	0.00	3394.00	58180.77	147125.06
	CENTRAL	54695.00	7490.83	0.00	62185.83	6780.00	11711.42	0.00	80677.25
Total of ALL INDIA		192971.50	25150.38	837.63	218959.51	6780.00	44963.42	60157.66	330860.58

*R.E.S UPTO 30-09-2017

SOURCE WISE GENERATION 2017-18(UPTO OCT-17)

SOURCE	GENERATION	% OF TOTAL GENERATION
HYDRO	96976.22	13.58
NUCLEAR	20183.85	2.83
THERMAL	596975.09	83.59
TOTAL	714135.16	100.00

ANNEX REFERRED TO IN REPLY TO PART (a) OF UNSTARRED QUESTION NO. 1111 TO BE ANSWERED IN THE LOK SABHA ON 21.12.2017.

STATEWISE GENERATION FROM CONVENTIONAL SOURCES DURING THE YEAR 2017-18 (UPTO 31.10.2017)

STATE	SOURCE	GENERATION 2017-18 (upto-Oct. 17) Million Unit(MU)
ANDAMAN & NICOBAR	HYDRO	
	THERMAL	147.91
ANDHRA PRADESH	HYDRO	507.51
	THERMAL	34754.48
ARUNACHAL PRADESH	HYDRO	1170.67
ASSAM	HYDRO	1170.54
	THERMAL	1987.38
BBMB	HYDRO	7215.82
Bhutan (IMP)	HYDRO	4409.24
BIHAR	THERMAL	15560.85
Chandigarh	THERMAL	0
CHHATTISGARH	HYDRO	155.02
	THERMAL	64440.91
DELHI	THERMAL	4815
DVC	HYDRO	204.11
	THERMAL	19716.96
GOA	THERMAL	0
GUJARAT	HYDRO	1092.78
	THERMAL	56900.27
HARYANA	THERMAL	14592.38
HIMACHAL PRADESH	HYDRO	24460.29
JAMMU AND KASHMIR	HYDRO	12515.32
JHARKHAND	HYDRO	151.82
	THERMAL	8433.31
KARNATAKA	HYDRO	3846.59
	NUCLEAR	4530.03
	THERMAL	16064.93
KERALA	HYDRO	3072.53
	THERMAL	47.6
LAKSHADWEEP	THERMAL	0
MADHYA PRADESH	HYDRO	1817.6
	THERMAL	60597.04
MAHARASHTRA	HYDRO	2670.77
	NUCLEAR	2975.04
	THERMAL	64785.13
MANIPUR	HYDRO	534.68
MEGHALAYA	HYDRO	1083.4
MIZORAM	HYDRO	4.48
NAGALAND	HYDRO	234.82
ODISHA	HYDRO	4617.77
	THERMAL	22897.78
PUDUCHERRY	THERMAL	129.85
PUNJAB	HYDRO	2977.02
	THERMAL	14248.85
RAJASTHAN	HYDRO	202.46
	NUCLEAR	5232.98
	THERMAL	22844.02
SIKKIM	HYDRO	7126.24
TAMIL NADU	HYDRO	1393.15
	NUCLEAR	5416.76
	THERMAL	38921.83
TELANGANA	HYDRO	1544.56
	THERMAL	27041.27
TRIPURA	THERMAL	3441.95
UTTAR PRADESH	HYDRO	970.02
	NUCLEAR	2029.04
	THERMAL	73943.88
UTTARAKHAND	HYDRO	10438.86
	THERMAL	1274.92
WEST BENGAL	HYDRO	1388.15
	THERMAL	29386.59
Grand Total		714135.16

STATEWISE GENERATION FROM RENEWABLE SOURCES DURING THE YEAR 2017-18(UPTO 31.10.2017)

State/Utility	Total (MU)
Chandigarh	5.089
Delhi	143.0758
Haryana	325.774
HP	1640.9
J & K	244.8574
Punjab	1630.9
Rajasthan	6311.781
Uttar Pradesh	1143.612
Uttarakhand	574.05
NTPC Dadri/FBD/Unchahar/Singrauli/Bhadla	275.0423
Oil India Ltd	176.3301
Chhattisgarh	673.7177
NTPC Rajgarh/Raojmal/Mandsaur	172.4153
Gujarat	7814.15
Madhya Pradesh	4081.701
Maharashtra	6685.917
Dadra and Nagar Haveli	2.725843
Daman & Diu	10.61
Andhra Pradesh	6842.567
Telangana	2009.543
Karnataka	7920.852
Kerala	530.5984
NTPC Ramagundam/Anantapuram	242.7162
Tamil Nadu	12159.73
Lakshadweep	1.059047
Punducherry	0.901963
Andaman & Nicobar	11.5298
Bihar	98.63652
Jharkhand	11.15347
Odisha	351.0643
Sikkim	26.52033
West Bengal	934.4229
DVC	8.3975
NTPC Andaman/ Talcher	11.0144
Arunachal Pradesh	0.46866
Assam	13.58532
Manipur	0.032643
Meghalaya	45.67
Mizoram	39.744
Nagaland	59.309
Tripura	24.998
NEEPCO	3.67813
Total	63260.84

**ANNEX REFERRED TO IN REPLY TO PART (c) OF UNSTARRED QUESTION NO. 1111
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Source-wise generation targets and actual generation during 2015-16, 2016-17 and 2017-18 (upto October, 2017) in Million Units

	2015-16		2016-17		2017-18 (upto October, 2017)	
Source	Target	Actual Generation	Target	Actual Generation	Target	Actual Generation
Hydro	132800	126620.96	139000	127994.9	104334	96976.22
Nuclear	38000	37413.62	40000	37915.87	25353	20183.85
Thermal	966700	943787.7	999000	994230.17	604766	596975.09
Total Generation from Conventional Sources	1137500	1107822.28	1178000	1160140.94	734453	714135.16
Renewable Energy Sources		65780.00		81550.00		63260.00
Grand Total (including Renewables)	1137500	1173602.28	1178000	1241690.94	734453	777395.16

The details of power generation from coal and gas during the first half of 2017-18 as compared to the previous year in Million Unit

Source	2016-17 (April- September, 2016)	2017-18 (April-September, 2017)	Growth (%)
Coal	440980.38	466776.71	
Gas (Including Liquid Fuel)	25615.97	25274.94	
Total	466596.35	492051.65	5.45

ANNEX-IV

**ANNEX REFERRED TO IN REPLY TO PART (f) OF UNSTARRED QUESTION NO. 1111
TO BE ANSWERED IN THE LOK SABHA ON 21.12.2017.**

List of DPRs of Hydro-Electric Schemes in India under examination in CEA

Sl. No.	Name of Scheme	State	Sector	Developer	Installed Capacity (MW)
	Jelam Tamak	Uttarakhand	Central	THDCIL	108
	Bowala Nand Paryag	Uttarakhand	State	UJVNL	300
	Dagamara	Bihar	State	BSHPCL	130
	Umngot	Meghalaya	State	MePGCL	210
	Subansiri Middle (Kamla)	Arunachal Pradesh	Private	KHEPCL	1800
	Attunli	Arunachal Pradesh	Private	AHEPCL	680
	Magochu	Arunachal Pradesh	Private	SMCPCL	96
	Luhri Stage-I	Himachal Pradesh	Central	SJVNL	210
	Kirthai-I	J&K	State	JKSPDC	390
	Mawphu Stage-II	Meghalaya	Central	NEEPCO	85
	Reoli Dugli	Himachal Pradesh	Private	L&T HHPL	430
	Total				4439
