(viii) Issued order for waiving the Inter State Transmission System charges and losses for inter-State sale of solar and wind power for projects to be commissioned by December, 2019 and March, 2019 respectively.

Statement

(A) Source-wise generation and capacity in total power production in the country during the current year 2017-18 (upto November, 2017)*

Category	Capacity (MW)	Generation* (MU)
Thermal	218959.51	680976.23
Nuclear	6780.00	23752.58
Hydro	44963.42	99871.35
RES	62053.75	63260.84**
GRAND TOTAL	332756.58	867861.00

Note: Generation from stations of 25 MW & above only.

* Provisional.

** As on 31.10.2017.

*(B) The demand and supply of power in the country during April-November, 2017**

Energy (Million Unit)				Peak (Mega Watt)			
Energy Requirement	Energy Supplied	Energy Not Suppied		Peak Demand	Peak Met	Demand not Met	
MU	MU	MU	%	MW	MW	MW	%
815,348	809,493	5,855	0.7	164,066	160,752	3,314	2.0

* Provisional.

Increase in generation of electricity

†1749. SHRI PARVEZ HASHMI: Will the Minister of POWER be pleased to state:

(a) the steps taken by Government in last three years to increase the generation of electricity, the details thereof;

(b) the number of powerhouses 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, the details thereof?

†Original notice of the question was received in Hindi.

THE MINISTER OF STATE OF THE MINISTRY OF POWER (SHRI RAJ KUMAR SINGH): (a) The following steps has been taken by Government of India to increase the generation of electricity:–

(i) During last three years (2014-15 to 2016-17), the Generation capacity of 83,009 MW comprising of 60,753 MW from the conventional sources and 22,256 MW from renewable sources have been added.

(ii) During last three years (2014-15 to 2016-17), 76,515 ckm of transmission lines and 2,10,219 MVA of transformation capacity have been completed. This has facilitated in evacuation of power from Generating Stations to the consumers. The inter-regional transmission capacity has been doubled from 37,950 MW as on 31.03.2014 to 78,050 MW as on 30.11.2017. Due to this, electricity can now be Seemlessly transferred from anywhere to anywhere in the country.

(iii) Government of India is assisting States through schemes like Deendayal Upadhyaya Gram Jyoti Yojana (DDSGJY), 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.* 2014-15, 2015-16, 2016-17 are given in the Statement-I (*See* below).

(c) The details of generation and electrical energy supplied during last three years are given in the Statement-II.

Statement-I

(A) List of projects commissioned during 2014-15

	Project Name	Type	Capacity (MW)
	Thermal Projects		
1.	Painampuram TPP U-1	Coal	660
2.	Damodaram Sanjeevaiah TPS U1, 2	Coal	1600
3.	Simhapuri PH-II U-4	Coal	150

	Project Name	Type	Capacity (MW)
4.	Muzaffarpur U-3	Coal	195
5.	Barh STPP ST-II U-5	Coal	660
6.	Swastik Korba U-1	Coal	25
7.	Akaltara (Naitara) TPP	Coal	600
8.	Tamnar TPP U-3,4	Coal	1200
9.	Raikhera TPP U-1	Coal	685
10.	Salora TPP U-1	Coal	135
11.	Badadarha U-2	Coal	600
12.	Sikxa TPP extn. U-3	Coal	250
13.	Dgen mega CCPP module 3	GAS	400
14.	Dhuvran CCPP-III	GAS	376.1
15.	Dhariwal TPP U-2	Coal	300
16.	Tirora TPP, P-II Unit 3	Coal	660
17.	Amravati TPP Phase-1 U-3, 4, 5	Coal	810
18.	Chandrapur U-8	Coal	500
19.	Koradi tps extn. U-8	Coal	660
20.	Sasan UMPP U-3, 5, 6	Coal	1980
21.	Nigri TPP U-1, 2	Coal	1320
22.	Shree Singhaji TPP U-2	Coal	600
23.	Derang TPP U-1, 2	Coal	1200
24.	Talwandi sabo TPP U-1	Coal	660
25.	Rajpura TPP U-2	Coal	700
26.	Ramgarh ST	GAS	50
27.	Kalisindh TPP U-1	Coal	600
28.	Chhabra TPP Ext U-4	Coal	250
29.	Mutiara TPP U-1	Coal	600
30.	Tuticorin JV U-1	Coal	500

	Project Name	Type	Capacity (MW)
31.	NLC TPP-2 expn. U-2	Coal	250
32.	Agartala CCPP ST-I	Gas	25.5
33.	Monarchak CCPP	Gas	65.4
34.	Tripura CCGT, BLK-2	Gas	363.3
35.	Haldia TPP U-1, 2	Coal	600
36.	Raghunathpur TPP, Ph-1	Coal	600
	TOTAL (THERMAL)		20830.3
	Hydro projects		
37.	Parbati III HEP U-4	Hydro	130
38.	Rampur HEP U-3, 4, 6	Hydro	206.01
39.	Koldam HEP U-1, 2	Hydro	400
	TOTAL (HYDRO)		736.01
	Nuclear projects		
40.	Kudankulam U-1	Nuclear	1000
	TOTAL (NUCLEAR)		1000
	GRAND TOTAL (THERMAL+HYDRO+NUCLEAR)		22566.3

(B) List of projects commissioned during 2015-16

	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

	Project Name	Type	Capacity (MW)
9.	Vindhyachal STPP ST-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 U-1	Coal	350
26.	Nabi Nagar TPP Exp. U-1	Coal	250
27.	Bokaro 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

	Project Name	Type	Capacity (MW)
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

(C) Projects Commissioned during the year 2016-17

	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-1	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

	Project Name	Type	Capacity (MW)
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.	Nagarjuna Sagar 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

Statement-II

(A) All India Generation in Million Units (MU) during last three years

	Electricity Generation (In MU)		
	2014-15	2015-16	2016-17
Conventional sources	1048672	1107822.28	1160140.94
Renewable Energy Sources	61784.93	65780.85	81548.21
TOTAL	1110456.93	1173603.13	1241689.15

Note : Generation data from Renewable Energy Sources is Provisional.

(B) All India electrical energy supplied in Million Units (MU) during last three years

Year	Electricity Supplied (In MU)
2014-15	1,030,785
2015-16	1,090,850
2016-17	1,135,332

Loss free power distribution companies

1750. SHRI PARIMAL NATHWANI: Will the Minister of POWER be pleased to state:

(a) whether Government plans to make operation of each power distribution company loss free by the year 2019;

(b) the names of the States which have gone through the Ujwal DISCOM Assurance Yojana (UDAY) process;

(c) the steps being taken to reign in other States under the UDAY; and

(d) the percentage of debt financing by State DISCOMs and its impact on power sector?

THE MINISTER OF STATE OF THE MINISTRY OF POWER (SHRI RAJ KUMAR SINGH): (a) Government have set a target for Power Distribution Companies to reduce their Aggregate Technical & Commercial (AT&C) losses to less than 15% by March, 2019.

(b) So far, Twenty Seven (27) States and Four (04) UTs in all *viz.* Jharkhand, Chhattisgarh, Rajasthan, Uttar Pradesh, Gujarat, Bihar, Punjab, Jammu and Kashmir, Haryana, Himachal Pradesh, Uttarakhand, Goa, Karnataka, Andhra Pradesh, Manipur, Madhya Pradesh, Maharashtra, Assam, Sikkim, Meghalaya, Telangana, Tamil Nadu, Arunachal Pradesh, Kerala, Tripura, Mizoram, Nagaland, Andaman and Nicobar Islands, Dadra and Nagar Haveli, Daman and Diu and Puducherry have signed the Memorandum of Understanding (MoUs) under UDAY.

(c) The Scheme is open to all remaining States and UTs for operational efficiency. However, relaxation of borrowing outside Fiscal Responsibility and Budgetary Management (FRBM) limit ended on 31-03-2017.