Cost of power generation

3367. SHRI HUSSAIN DALWAI : Will the Minister of POWER be pleased to state:

(a) the per unit cost of generation of thermal, hydel and nuclear power at present;

(b) the share of each of the above source in total power generation in the country at present;

(c) the reasons for less reliance on hydro and nuclear power sources; and

(d) the steps taken to increase power generation from these sources?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI K.C. VENUGOPAL) : (a) Based on the information made available by Central Electricity Authority, the weighted average rate of sale of power from generating stations of different sources to Power Utilities for the year 2010-2011 was as under:

Sources	Weighted Average Rate in Paise/kWh
Hydro	211.57
Thermal	305.41
Nuclear	248.78

(b) The share of thermal, hydro and nuclear power generation out of the total power generation during the financial year 2011-2012 was 80.83%, 15.48% and 3.68% respectively.

(c) Best efforts are being made to increase the capacity generation from all sources including hydro and nuclear sources. As such, there is no reason for less reliance on hydro and nuclear power sources.

(d) A multi-pronged strategy has been adopted for augmenting hydel capacity addition and hydro power generation in the country. Some of the policy measures and initiatives taken by the Government for incentivizing hydro power generation are finalization of investor-friendly New Hydro Policy, 2008, 50,000 MW Hydroelectric Initiative, liberal National Rehabilitation and Resettlement Policy, revised Mega Power Project Policy, renovation, modernization and life extension of old hydel generating units, incentives for completion of projects ahead of schedule for higher generation/ availability of plants.

Power demand

3368. SHRIMATI VASANTHI STAINLEY : Will the Minister of POWER be pleased to state:

(a) the requirement of power from the Central Government, State-wise;

(b) the details of power shortages, if any, State-wise;

(c) whether Government has receive any requests from States for help from the Central pool; and

(d) if so, the details of requests and the details of relief granted?

THE MINISTER OF STATE IN THE MINISTRY OF POWER (SHRI K.C. VENUGOPAL) : (a) The requirement of power in a State is met with their own generation, supply against its share in the Central Generating Stations (CGSs) and import of power. Supply of power to the States against their allocation of power CGSs, therefore, caters to only part of their requirement. The quantum of energy scheduled from the Central Generating Stations to various States in the country and their requirement during 2011-12 are given in Statement-I (*See* below).

(b) The State-wise energy and peak shortage during 2011-12 is given in Statement-II (*See* below).

(c) and (d) As a number of States and UTs in the country have been facing shortage of power, requests for additional allocation of unallocated power of CGSs are received from time to time. Usually, the cumulative demand preferred by the States/UTs is more than the unallocated power. Additional allocation of unallocated power to the extent of their request is not always possible. Further, the quantum of unallocated power being limited and it being fully allocated at any point of time, the enhancement in allocation of any State/UT necessitates equivalent reduction in the allocation of other State(s)/UT(s). Allocation of unallocated power to the States/UTs to the extent of their request is, therefore, not feasible many a times.

Statement-I

Energy requirement of different States and energy scheduled from CGSs

(Figures in MU)

State/System	2011-12	
	Requirement	Schedule from CGS
1	2	3
Northern Region		
Chandigarh	1568.00	1063.70
Delhi	26751.00	20319.27
Haryana	36874.00	9187.72
Himachal Pradesh	8161.00	5522.97
Jammu and Kashmir	14250.00	8452.80

1	2	3
Punjab	45191.00	11908.70
Rajasthan	51474.00	11982.15
Uttar Pradesh	81339.00	31772.47
Uttarakhand	10513.00	4287.03
Western Region		
Chhattisgarh	15013.00	5408.30
Gujarat	74696.00	17469.10
Madhya Pradesh	49785.00	19459.40
Maharashtra	141382.00	29144.10
Daman and Diu	2141.00	1793.50
Dadra and Nahar Haveli	4380.00	3714.50
Goa	3024.00	3125.00
Southern Region		
Andhra Pradesh	91730.00	22260.44
Karnataka	60830.00	11228.82
Kerala	19890.00	8776.15
Tamil Nadu	85685.00	20656.16
Puducherry	2167.00	2667.43
Eastern Region		
Bihar	14311.00	10316.64
DVC	16648.00	1583.43
Jharkhand	6280.00	1824.15
Odisha	23036.00	6900.64
West Bengal	38679.00	5509.04
Sikkim	390.00	861.92
N.E. Region		
Arunachal Pradesh	600.00	462.78
Assam	6034.00	3557.92

1	2	3
Manipur	544.00	578.45
Meghalaya	1927.00	808.23
Mizoram	397.00	301.32
Nagaland	560.00	359.40
Tripura	949.00	199.63

Statement-II

State-wise details of energy and Peak shortages during 2011-12

System/ Region	Energy Surplus/Deficit(–) (MU)	(%)	Peak Surplus/Deficit(–) (MW)	(%)
1	2	3	4	5
Chandigarh	–4	0	0	0
Delhi	–77	–0.3	–3	–0.1
Haryana	–1,333	–3.6	–274	–4.2
Himachal Pradesh	–54	–0.7	–99	–7.1
Jammu and Kashmir	–3,361	–23.6	–596	–25.0
Punjab	–1,399	–3.1	–1,770	–16.9
Rajasthan	–1,983	–3.9	–583	–7.1
Uttar Pradesh	–9,223	–11.3	–271	–2.3
Uttarakhand	–305	–2.9	–12	–0.7
Northern Region	**–17,739**	**–6.4**	**–3,131**	**–7.8**
Chhattisgarh	–398	–2.7	–146	–4.5
Gujarat	–267	–0.4	–192	–1.8
Madhya Pradesh	–8,393	–16.9	–646	–7.1
Maharashtra	–23,660	–16.7	–4,652	–22.1
Daman and Diu	–226	–10.6	–25	–8.3
Dadra and Nagar Haveli	–31	–0.7	–10	–1.6
Goa	–43	–1.4	–56	–10.6

1	2	3	4	5
Western Region	**–33,018**	**–11.4**	**–5,843**	**–13.8**
Andhra Pradesh	–6,581	–7.2	–2,082	–14.8
Karnataka	–6,807	–11.2	–1,996	–18.9
Kerala	–423	–2.1	–179	–5.1
Tamil Nadu	–8,980	–10.5	–2,247	–17.5
Pondicherry	–31	–1.4	–15	–4.5
Lakshadweep#	0	0	0	0
Southern Region	**–22,822**	**–8.8**	**–5,411**	**–14.4**
Bihar	–3,051	–21.3	–293	–14.4
DVC	–639	–3.8	–244	–10.5
Jharkhand	–250	–4.0	–162	–15.7
Orissa	–343	–1.5	–63	–1.8
West Bengal	–398	–1.0	–60	–0.9
Sikkim	–6	–1.5	–5	–5.0
Andaman-Nicobar#	–40	–16	0	0
Eastern Region	**–4,687**	**–4.7**	**–708**	**–4.8**
Arunachal Pradesh	–47	–7.8	–3	–2.5
Assam	–338	–5.6	–59	–5.3
Manipur	–45	–8.3	–1	–0.9
Meghalaya	–477	–24.8	–52	–16.3
Mizoram	–42	–10.6	–4	–4.9
Nagaland	–49	–8.8	–6	–5.4
Tripura	–49	–5.2	–1	–0.5
North–Eastern Region	**–1,047**	**–9.5**	**–138**	**–7.2**
All India	**–79,313**	**–8.5**	**–13,815**	**–10.6**

Lakshadweep and Andaman and Nicobar Islands stand-alone systems, power supply position of these, does not form part of regional requirement and availability.