

**GOVERNMENT OF INDIA
POWER
LOK SABHA**

STARRED QUESTION NO:81
ANSWERED ON:30.07.2010
DEMAND AND SUPPLY OF POWER
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Will the Minister of POWER be pleased to state:

- (a) the details of the power generated from various sources along with the demand and supply of power in the country during the last three years and the current year, source-wise and State-wise;
- (b) whether the power being generated is sufficient to meet the rapidly growing demand of power in the country;
- (c) if so, the details thereof and if not, the reasons therefor;
- (d) whether the Government has conducted any review/assessment of the gap between the demand and supply of power in the country including Jharkhand; and
- (e) if so, the details thereof and the corrective measures being taken or proposed to be taken by the Government to reduce the demand- supply gap and increase the power generation in the country?

Answer

THE MINISTER OF POWER (SHRI SUSHILKUMAR SHINDE)

(a) to (e) : A Statement is laid on the Table of the House.

STATEMENT

STATEMENT REFERRED TO IN REPLY TO PARTS (a) TO (e) OF STARRED QUESTION NO. 81 TO BE ANSWERED IN THE LOK SABHA ON 30.07.2010 REGARDING DEMAND AND SUPPLY OF POWER.

(a) : The power generated in the country from various sources, namely thermal, hydro, nuclear and import from Bhutan during 2007-08, 2008-09, 2009-10 and 2010-11 (upto June, 2010) was 7,04,469 Million Unit (MU), 7,23,794 MU, 7,71,551 MU and 2,00,315 MU respectively. The year-wise, source-wise details of gross electricity generation are given below.

Source Gross Energy Generation (Million Unit)
2007-08 2008-09 2009-10 2010-11#
(upto June,2010)

Thermal	5,58,990	5,90,101	6,40,876	1,66,316
Hydro	1,23,424	1,13,081	1,06,680	27,731
Nuclear	16,776.9	14,713	18,636.4	5,243
Bhutan Import	5,277.94	5,899	5,358.57	1,025
Total	7,04,469	7,23,794	7,71,551	2,00,315

Includes provisional figures for the month of June, 2010.

State-wise details are given at Annex-I.

The year-wise demand and supply of power both in terms of energy and peak in the country during the last three years and current year (upto June, 2010) is given below:

Year/Period Energy (Net) Peak (Net)

Requirement (MU)	Availability (MU)	(MU) (%)	(MW)	Deficit (MW)	Demand Met (%)	Deficit (%)
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2007-08	739343	666007	73336	9.9	108866	90793	18073	16.6
2008-09	777039	691038	86001	11.1	109809	96785	13024	11.9
2009-10	830594	746644	83950	10.1	119166	104009	15157	12.7
2010-11#	221013	194829	26184	11.8	119437	103003	16434	13.8

(upto June`10)

MU = Million Unit

MW = Mega Watt

Note(s) : The figures given above are net figures, excluding auxiliary consumption.

Includes provisional figures for the month of June, 2010.

The State-wise demand and supply position in terms of energy and peak for the last three years and current year (upto June, 2010) is given at Annex-II.

(b) & (c) : The demand for electricity, which has grown at Compounded Annual Growth Rate (CAGR) of 6.35%, during 2007-08 to 2009-10, has outstripped growth in electricity generation @ 5.21% during the same period. This is mainly due to the following reasons:

(i) Delay in commissioning of new projects due to non sequential supply of materials, delays in land acquisition, environment and forest clearance, etc.;

(ii) Delayed and insufficient rains in catchment areas of some of the reservoirs and hydro power projects;

(iii) Low Plant Load Factor of some of the thermal generating units, mostly in the State Sector;

(iv) Inadequate availability of coal and nuclear fuel; and

(v) High Aggregate Technical and Commercial (AT&C) losses including theft of electricity leading to imprudent use of electricity.

(d) : The shortage/gap between demand and supply in the country in terms of energy (MU) and peak (MW) during the period from 2007-08 to 2009-10 were in the range of 9.9% to 11.8% and 11.9% to 16.6% respectively. The gap between demand and supply in Jharkhand in terms of energy and peak during the last three years and current year (upto June, 2010) have been in the range of 4.7% to 13.3% and 0.2% to 13% respectively. The year-wise details are given below.

Year	Shortage in the country		Shortage in Jharkhand	
	Energy (%)	Peak (%)	Energy (%)	Peak (%)

2007-08	9.9	16.6	13.3	9.0
2008-09	11.1	11.9	4.7	0.2
2009-10	10.1	12.7	7.8	13.0
2010-11	11.8	13.8	6.2	1.7

(Upto June,2010)#

Provisional

(e) : The following measures have been taken/are being taken by the Government to reduce the demand and supply gap/improve power generation in the country:

(i) Quantum jump in capacity addition during the 11th Plan as compared to previous Plans.

(ii) Rigorous monitoring of capacity addition of the on-going generation projects.

(iii) Coordinated operation and maintenance of hydro, thermal, nuclear and gas based power stations to optimally utilize the existing generation capacity.

(iv) Thrust to import of coal by the power utilities to meet the shortfall in coal supplies to thermal power stations from indigenous sources.

(v) Hydro Power Policy 2008 launched with the aim to boost hydro power development in the country.

(vi) 50,000 MW Hydro initiative launched under which CEA has prepared Preliminary Feasibility Reports of 162 Hydro Electric Schemes aggregating to 50,000 MW.

(vii) Allocation of gas from KG Basin (D6) for gas based power stations in the country.

(viii) Tapping of surplus power from captive power plants.

(ix) Development of Ultra Mega Power Projects of 4000 MW each to reap benefits of economies of scale.

(x) Renovation, modernization and life extension of old and inefficient generation units.

(xi) Strengthening of sub-transmission and distribution network as a major step towards loss reduction.

(xii) Promoting energy conservation, energy efficiency and demand side management measures.