

**GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:5072

ANSWERED ON:13.08.2014

COMPARATIVE COST OF GENERATION OF ELECTRICITY

Shanavas Shri M. I.

Will the Minister of ATOMIC ENERGY be pleased to state:

- (a) whether the per unit cost of electricity generation from nuclear energy is comparatively less than the per unit cost of electricity produced from other sources;
- (b) if so, the details thereof including comparative per unit cost of electricity from all sources including nuclear energy; and
- (c) the policy/guidelines laid down for allotment of electricity generated from each nuclear reactor to the States and other consumers?

Answer

THE MINISTER OF STATE FOR PERSONNEL, PUBLIC GRIEVANCES & PENSIONS AND PRIME MINISTER'S OFFICE
(DR.JITENDRA SINGH):

(a) The cost of production of electricity through nuclear energy is comparable to those of the contemporary conventional base load power generating units (like coal based thermal power) located in the area/region.

(b) The latest available minimum and maximum tariff for pit-head and non-pit-head coal based stations, lignite based stations, gas based stations, liquid fuel based stations and hydro stations, renewable sources such as wind energy and solar energy, and nuclear energy as on 31.03.2014 is given in the Table below:

S. No.	Type of Generating stations	Maximum Total Tariff(both fixed charge and energy charge)	Minimum Total Tariff(both fixed charge and energy charge)
1.	Pit-head coal based station	Rs. 3.19 per unit	Rs. 0.87 per unit
2.	Non-pit-head based station	Rs. 5.29 per unit	Rs. 3.32 per unit
3.	Lignite based station	Rs. 4.01 per unit	Rs. 2.79 per unit
4.	Natural gas based station (APM gas)	Rs. 3.99 per unit	Rs. 2.66 per unit
5.	Natural gas based station (NAPM gas)	Rs. 4.52 per unit	Rs. 4.23 per unit
6.	LNG gas based station	Rs. 10.67 per unit	Rs. 8.41 per unit
7.	Liquid based stations (Naphtha/HSD)	Rs. 13.01 per unit	Rs. 7.67 per unit
8.	Hydro based station	Rs. 5.77 per unit	Rs. 0.86 per unit
9.	Wind energy	Rs. 6.00 per unit	Rs. 3.74 per unit
10.	Solar PV(Photovoltaic)	Rs. 7.72 per unit	
11.	Solar CSP (Concentrated Solar Power)	Rs. 11.88 per unit	
12.	Nuclear energy	Rs.3.41 per unit	Rs.0.95 per unit

(c) With effect from January, 2011, the Government of India has approved a policy of allocation of 50% of power to Home States from all new nuclear projects of Nuclear Power Corporation of India Limited (NPCIL). 15% of power would remain as unallocated at the disposal of Government of India and the remaining 35% is to be allocated to other constituents (except Home State) as per the Central formula.