

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
QUESTION NO 06.12.2010
ANSWERED ON
SHARE OF RENEWABLE ENERGY .

371

Dr. Gyan Prakash Pilania

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state :-

- (a) the share of renewable energy to the total installed capacity from all sources in the country, percentage-wise and MW wise;
- (b) the economic viability of renewable energy sources as compared to traditional sources, sources-wise and the cost per mega watt;
- (c) the details of production during the last five years, State-wise and renewable sources-wise ; and
- (d) whether the above performance in new and renewable energy sector could be termed tardy?

ANSWER

THE MINISTER OF NEW AND RENEWABLE ENERGY

(Dr. FAROOQ ABDULLAH)

(a),(b),(c)&(d): A statement is laid on the Table of the House.

Statement referred to in reply to Parts (a),(b),(c)&(d) of the Rajya Sabha Starred Question No. 371 for 6.12.2010

(a):Grid-interactive Renewable Power Generation Capacity of about 18,321 MW from various renewable energy sources has been set up in the country upto 31.10.2010. This corresponds to about 10.9% of the total installed power generation capacity of around 1,68,000 MW from all sources in the country.

(b):The initial capital investment in renewable energy projects is generally high and their viability is very much region / site specific. As such, the cost of renewable power generation is also high in comparison with the traditional sources. Details of indicative initial capital costs and costs of electricity generation in respect of different categories of renewable power plants are given in Annexure-I.

(c):State-wise details of grid-interactive installed capacity during the last 5 years, i.e., 2005-06, 2006-07, 2007-08, 2008-09 and 2009-10 from different renewable energy sources are given in Annexure-II.

(d): No, Sir. There has been a steady increase in grid-interactive renewable power generation capacity from 1,628 MW as on 1.4.2002 (beginning of 10th Plan) to 18,321 MW as on 31.10.2010. In terms of its contribution in the total installed capacity from all sources, the same has increased from 2% to around 11% in this period. Also, renewable power generation capacity of 6,560 MW has been added during the first three years of the 11th plan period (2007-08, 2008-09 & 2009-10), which is over 25% of the total capacity addition during this period.

Annexure-I

Annexure-I referred to in reply to part (b) of Rajya Sabha Starred Question No.371 for 06.12.2010 regarding Share of renewable energy

Indicative initial capital costs and cost of electricity generation in respect of different categories of renewable power plants

Renewable power Plant category	Estimated initial capital cost electricity generation (Rs. In crore/MW)	Estimated cost of electricity generation (Rs./kWh)
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Small Hydro Power	6.00- 7.50	2.50 - 3.50
Wind Power	5.50 - 6.00	2.75 - 3.50
Biomass Power	4.50 - 5.00	2.75 - 3.50
Bagasse Cogeneration	4.30 - 5.00	2.50 - 3.50
Energy from Urban/ Industrial Waste	4.00 - 12.00	2.50 - 5.00
Solar Power	12.00 - 17.00	11.00 - 18.00