

**GOVERNMENT OF INDIA
NEW AND RENEWABLE ENERGY
LOK SABHA**

UNSTARRED QUESTION NO:2238

ANSWERED ON:24.08.2012

DEVELOPMENT OF SOLAR AND WIND ENERGY

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

- (a) the potential/installed capacity of solar and wind energy in the country, State/UT-wise along with its cost per mega watt as compared to other sources;
- (b) the target set and achievement made in generation of solar and wind energy in the country including their share in total energy generation during each of the last three years and the current year and proposed during the Twelfth Five Year Plan, source-wise and State-wise;
- (c) the project proposals received from the State Governments and Union Territory Administrations in this regard and the funds allocated/released and utilized during the said period State/UT-wise;
- (d) the present status of the sanctioned projects, and the details of pending proposals, State/UT-wise; and
- (e) the incentives provided to the private sector, foreign investors and other measures taken/proposed by the Government to encourage generation of solar and wind energy and make them economically viable?

Answer

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH)

(a): About 5,000 trillion kWh per year solar energy is incident over India's land area with most parts receiving 3-5 kWh per sq. mtr. per day. Under Phase-I of Jawaharlal Nehru National Solar Mission 1040.67 MW solar power generating capacity has been connected to grid under the Central and State programmes. The state wise installed capacity of grid connected solar power is at Annexure 'A'. The cost of a solar power project is approximately 10 crore per MW as per CERC. Average cost of solar power arrived at upon reverse bidding in Batch-II of Phase-I is Rs. 8.78/- per kWh.

As regards wind energy, the potential and installed capacity is at Annexure-A.2. The cost of wind power projects is around Rs. 6 Crore per MW as per CERC.

(b): The target and achievement made in regard to generation of solar power in the country under Phase-I (2010-13) & Phase-II (2013-17) of JNNSM and that of wind energy is at Annexure 'B'. As per the guidelines for allocation of grid connected solar power projects, the projects are allocated on the basis of bidding and on the off- grid applications, on the basis of project proposals received from various States and Union Territories. Hence the target set is for the country as a whole. The present total installed renewable power capacity is 25409 MW out of which solar power and wind power capacities are 1031 MW (4.1%) and 17644 MW (69.4%) respectively. The cumulative installed renewable power capacity by end of Twelfth Five year plan is likely to be 55000 MW out of which solar power and wind power capacities are likely to be 10000 MW (18.18%) and 30000 MW (54.54%) respectively.

(c): As per the guidelines for allocation of grid connected solar power projects under JNNSM, the projects are allocated on the basis of bidding and on the off-grid applications on the basis of project proposals received from various States and Union Territories. Hence project proposals are not invited from State Governments and Union Territory Administrations. The funds allocated for off-grid applications is at Annexure 'C'.

As regards wind energy, Ministry is not involved in project sanctioning and implementation and therefore does not receive any proposal. Ministry also does not release any funds as the development is taking place with private sector investment.

(d): The details are at Annexure 'D'.

(e): The details are at Annexure 'E'.