

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

UNSTARRED QUESTION NO:4335

ANSWERED ON:18.12.2014

WIND AND SOLAR ENERGY POTENTIAL

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

- (a) the details of the last exploration made to assess the potential of country's solar, wind and geo-thermal energy sources;
- (b) the extent to which the country's energy requirement is being drawn from solar, wind and geo-thermal energy, source-wise;
- (c) the programmes aimed at giving much needed impetus for promoting solar, wind and geo-thermal energy production across the country;
- (d) the funds allocated for promotion of solar, wind and geo-thermal energy in the last three years and the current year, State/UT-wise;
- (e) the details of the funds utilised and unutilised during the said period, State/UT-wise; and
- (f) whether any study has been undertaken in the recent past to undertake the economic viability of the projects of solar, wind and geo-thermal energy, and if so, the details thereof and steps taken by the Government for promotion of wind, solar and geo-thermal energy especially in coastal areas of our country?

**Answer**

THE MINISTER OF STATE FOR POWER, COAL & NEW AND RENEWABLE ENERGY (INDEPENDENT CHARGE) (SHRI PIYUSH GOYAL)

(a)&(b): A potential of about 2,45,000 MW power generation has been estimated from various renewable energy sources in the country. This includes over 1,00,000 MW each from Wind and Solar Energy and balance 45,000 MW from other renewable energy sources. About 6.5 percent of the annual grid electricity generation is contributed by various renewable energy sources.

(c): Ministry of New and Renewable Energy (MNRE) is implementing various schemes /programmes aimed at promoting renewable energy production across the country. Details of these schemes/ programmes are given at Annexure-I.

(d)&(e): The details of funds allocated and released for promotion of renewable energy sources in the country during the last three years and current year, State/UT-wise are given in Annexure-II.

(f): Evaluation through Independent Agencies covering the quality, functionality and impact of all the major schemes implemented during the 11th Plan period have been carried out during 2012-13. The studies also included review of financial parameters, satisfaction level of beneficiaries, human resource development and training requirements.

Further, to promote the use of renewable energy including the coastal areas of our country, MNRE is providing various fiscal and financial incentives, such as capital/interest subsidy, generation based incentives, accelerated depreciation, concessional excise and customs duties. The other steps to promote renewable energy include: setting up of demonstration projects, preferential tariff for purchase of power generated from renewable sources, resource assessment, development of power evacuation and testing facilities, introduction of Renewable Energy Certificates and Renewable Purchase Obligation, etc. Wide publicity and awareness raising on the benefits of renewable energy systems have also been taken up in Hindi, English and regional languages using print, electronic and outdoor media.