

**GOVERNMENT OF INDIA
NON-CONVENTIONAL ENERGY SOURCES
LOK SABHA**

UNSTARRED QUESTION NO:1483
ANSWERED ON:04.08.2006
PENDING SCHEMES OF NCES
Mahtab Shri Bhartruhari;Oram Shri Jual

Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

:

- (a) whether there is a vast scope to generate power through non-conventional sources of energy in the country particularly in Orissa;
- (b) if so, the target set and achievement made by the Government during the Tenth Five Year Plan Period, State-wise;
- (c) whether any such projects are pending for the clearance with the Government;
- (d) if so, the present status of such projects; and
- (e) the steps taken to expedite the clearance of these projects?

Answer

MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI VILAS MUTTEMWAR)

- (a): The estimated potential from renewable energy sources such as wind, small hydro and biomass has been estimated at 84,000 MW in the country, including Orissa, as per details given in Annexure-I.
- (b) : The target for grid interactive renewable power for the 10th Plan is 3075 MW against which a capacity of 4630 MW has been installed during the first four years of the said Plan, state-wise details of which are given in Annexure –II
- (c), (d) & (e): Proposals for the grant of central financial assistance under various schemes / programmes of this Ministry are received on a regular basis. At times, these proposals are found to be incomplete or not in line with the provisions of the schemes / programmes. Complete proposals are considered and approved subject to budget provision, which is a continuous process.

Annexure-I

Annexure-I referred to in reply to part (a) of Lok Sabha Unstarred Question No. 1483 for 04.08.2006 regarding Pending Schemes of NCES.

Details of estimated energy potential from renewables

(in MW)

Sl. No Resource Indicative Estimated Potential

1. Bio-power (Agro-residues)#	16,0001
2. Wind Power	45,0002
3. Small Hydro Power (upto 25 MW)	15,000
4. Cogeneration-bagasse	5,000
5. Waste to Energy :	
Municipal solid waste to energy	2,000
Industrial waste to energy	1,000
Total \$	84,000

MW = Megawatt;

Note: -

This excludes a potential of 45,000 MW from around 20mha of wastelands yielding 10MT/ha/annum of woody biomass giving 4000 k-cal/kg with system efficiency of 30% and 75% PLF. In order to realize this estimated potential a major inter-Ministerial initiative involving, among others, Agriculture, Rural Development, Panchayati Raj, Environment & Forests would be required.

\$ This excludes potential for Solar Power which is dependent on future developments making solar technology cost-competitive for grid power applications.

1 Although the potential is based on surplus agro-residues, in practice biomass power generation units prefer to use forest-residues

for techno-economic reasons

2 Sites with wind densities of 250 W/m² or higher with 3% of assessed area available for wind farms requiring 12 ha/MW. The technically feasible potential for grid-interactive power could be lower if sites with wind densities of 300 W/m² or higher are considered as suitable in keeping with international practice.