

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

UNSTARRED QUESTION NO:1557
ANSWERED ON:01.12.2006
ESTABLISHMENT OF SEZ
Acharia Shri Basudeb

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

- (a) whether Government has invited participation for establishing Special Economic Zone (SEZ) from global renewal energy industry such as wind turbine makers;
- (b) if so, the details thereof;
- (c) whether the Government proposes to invite public-private participation for adding capacity generation;
- (d) if so, whether the Government has undertaken any study to explore other potential such as offshore wind farms; and
- (e) if so, the details thereof?

Answer

MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI VILAS MUTTEMWAR)

(a) & (b): No, Sir. However, Indian Renewable Energy Development Agency, a non-banking financial company under the administrative control of the Ministry of New & Renewable Energy, is envisaging formation of a Special Purpose Vehicle for setting up, maintaining and running of a Special Economic Zone for renewable energy products.

(c): Grid-interactive renewable power installed capacity of 9013 MW (wind power – 6066 MW, small hydro power-1847 MW, bio power-1100 MW) has been set up as on 31.10.2006, mainly through private investment. Further capacity addition of about 13,500 MW is envisaged also largely through private investment during the 11th Plan.

(d) & (e): Renewable energy potential of around 84,000 MWe from different renewable energy sources, mainly wind, small hydro and biomass has been estimated in the country, details of which are given in Annexure.

Annexure

Annexure-I referred to in reply to parts (d)&(e) of Lok Sabha Unstarred Question No. 1557 for 01.12.2006 regarding Establishment of SEZ.

Details of Estimated Renewable Energy Potential

Sl. No. Resource Estimated Potential (in MWe)

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 84,0003

MWe = Megawatt equivalent;

Note: - 1 Although this potential is based on surplus agro-residues, in practice biomass power generation units prefer to use forest-residues for techno-economic reasons. Excludes potential of 45,000 MWe from around 20mha of wastelands assumed to be yielding 10MT/ha/annum of woody biomass having 4000 k-cal/kg with system efficiency of 30% and 75% PLF. In order to realize this potential a major inter-Ministerial initiative involving, among others, Agriculture, Rural Development, Panchayati Raj, Environment & Forests would be required.

2 At sites with wind power density (wpd) greater than 200 W/m² with land availability in potential areas @ 1 per cent and requirement of wind farms @ 12 ha/MW, not all of which may be suitable for grid-interactive wind power. In line with international practice for grid-interactive wind power, potential would drop if sites having wpd greater than 300 W / m² were to be considered. However, this entire potential might be suitable for off-grid applications. Further, preliminary surveys do not suggest a sizeable off-shore grid-interactive wind power potential.

3 Excludes potential for solar power which is dependent on future developments that might make solar technology cost-competitive for grid-interactive power generation applications.