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

UNSTARRED QUESTION NO:1795 ANSWERED ON:08.03.2001 STATUS OF NCES AND RENEWABLE SOURCES S. SAIDUZZAMAN

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

- (a) the details of source of non-conventional energy including renewable sources which are in actual use in India including wind power etc.
- (b) the details of the potential of each of these indicating the present usage and the ultimate targets;
- (c) whether the Non-Conventional Energy Sources and renewable sources including Biomass is rather unhappy; and
- (d) if so, the steps taken and proposed to be taken in this regard?

## **Answer**

## MINISTER OF STATE FOR NON-CONVENTIONAL ENERGY SOURCES (INDEPENDENT CHARGE), (SHRI M. KANNAPPAN)

- (a) & (b): India has a vast potential of non-conventional energy sources such as solar, wind, small hydro power and biomass. The various systems/devices have been developed for effective utilization of non-conventional energy sources for meeting energy needs of cooking, heating, lighting and electricity in the country. The details of estimated potential in the country and achievements made under various non-conventional energy programmes upto 31st December, 2000 are given in the Annexure.
- (c) & (d): No, Sir. The Ministry has installed a cumulative capacity of about 3000 MW by end of 31st December 2000 including about 300 MW from biomass and is giving priority for power generation from non-conventional energy sources, including biomass. In addition, the Ministry is encouraging promotion, development and utilisation of non-conventional energy sources, by providing various fiscal, financial and promotional incentives including financial support, soft term loans and conducive renewable energy power policies for wheeling, banking, buy-back and third party sale of renewable energy power.

  Annexure

Annexure referred to in reply to part (a) & (b) of the Lok Sabha Unstarred Question No.1795 for 08.03.2001 regarding status of non-conventional energy sources.

The estimated potential and achievements made under various non-conventional energy sources upto December, 2000 in the country.

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Sources/Systems Approximate Achievements
Potential
                                    (as on 31-12-2000)
1. Biogas plants (No.) 120 lakh 31.1 lakhs
2. Improved Chulha (No.) 12 crores 326.2 lakhs
3. a. Biomass Power 19,500 MW
                                                 273 MW
 b. Biomass Gasifier 35.52 MW
4. Solar Photovoltaic 20 MW/sq. km.
i. Solar Street Lighting Systems -
                                     40764 Nos.
ii. Home Lighting Systems - 137212 Nos.
iii Solar Lanterns - 319310 Nos.
iv. SPV Power Plants - 1078.7 kWp
   Solar Water Heating Systems 30 million sq.m 5,50,000 sq.mtr.
    collector area collector area
6.
     Solar Cookers
                    4,91,212 Nos.
    Wind Power 45,000 MW 1269.4 MW
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8. Small Hydro Power 15,000 MW 1341.1 MW (upto 25 MW)

9. Wind Pumps 670 Nos.
10. Hybrid Systems 91.5 kW
11. Solar PV Pumps 3575 Nos.
12. Solar Photovoltaic Power 1615 kW
13 Energy Recovery from wastes 1700 MW 16.2 MW
14. Battery Operated Vehicles 240 Nos.