

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

UNSTARRED QUESTION NO:700
ANSWERED ON:02.12.1999
GENERATION OF ENERGY THROUGH NON CONVENTIONAL SOURCES
MALYALA RAJAJIAH

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

- (a) the details of sources of generation of 'ENERGY' through non-conventional sources in Andhra Pradesh;
- (b) the quantum of energy produced annually during each of the last three years; and
- (c) the efforts made to encourage the production of such energy ?

Answer

MINISTER OF STATE FOR NON-CONVENTIONAL ENERGY SOURCES (INDEPENDENT CHARGE) (SHRIM. KANNAPPAN)

(a) The Ministry of Non-Conventional Energy Sources is implementing a wide range of programmes for the production and development of non-conventional energy sources such as Biogas Plants, Improved Chulhas, Biomass Gasification and Briquetting Plants, Solar Thermal Water Heating, both domestic and industrial, Solar Photovoltaic energy based rural home-lighting, lanterns, water pumping for irrigation and village level power plants, grid connected power from Wind Energy, Small Hydro, Biomass Combustion, Bagasse-based Co-generation and Solar Photovoltaic Energy and energy from Urban and Industrial Wastes, throughout the country including in the State of Andhra Pradesh.

(b) The details of quantum of energy estimated to be produced through various non-conventional energy sources in the State of Andhra Pradesh during the last three years i.e. from 1996-97 to 1998-99 is placed at Annexure-I.

(c): The Ministry of Non-Conventional Energy Sources has taken a number of steps in order to promote the production and utilization of non-conventional energy in the country including in the State of Andhra Pradesh which include fiscal, financial and promotional incentives provided by the Central Government under its various programmes for production of energy sources, announcement of conducive policies for wheeling, banking, buy-back, third party sale and sales tax benefits by the State Governments to attract private sector participation and soft loan from IREDA.

Annexure-I referred to in reply to part (b) of the Lok Sabha Unstarred Question No. 700 for 2.12.99 regarding generation of energy through non-conventional sources.

Details of energy produced through various non-conventional energy sources in the State of Andhra Pradesh during the last three years i.e from 1996-97 to 1998-99

Sl.No.	Sources	Unit	Estimated Energy Generation		
			1996-97	1997-98	1998-99
1	Wind Power	Million units	40	52	39
2	Small Hydro Power	Million units	33	40	55
3	Biomass Co-generation	Million units	4	4	44
4	Energy from Urban & Industrial Wastes	Million units	3.95	12.57	12.86
5	Biomass Gasifier	Million units	4.84	1.92	4.41
6	Solar Photovoltaic	Lakh KWh	2.97	3.04	3.21
7	Solar Thermal	Million units	6.4	8.2	12.8
8	Biogas	Million cubic meter	13.6	17.0	19.0