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

UNSTARRED QUESTION NO:752 ANSWERED ON:02.12.1999 PRODUCTION OF NON CONVENTIONAL ENERGY SULTAN SALAHUDDIN OWAISI

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

(a) whether the NCES are able to give a helping hand to the growing demand of power in the country;

(b) if so, the total energy produced during each of the last three years in the country;

(c) whether the Government propose to give more concessions to the people to adopt solar power and wind power in rural areas as energy sources;

(d) if so, the details thereof; and

(e) the steps taken for making optimum use and extraction of solar energy and wind energy?

## Answer

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

(a) & (b): Yes Sir. The Non-Conventional Energy Sources are a supplementary sources of energy and are able to contribute to the growing demands of power in the country. The total energy produced from Non-Conventional Energy Sources during the last three years in the country i.e. 1996-97, 1997-98 & 1998-99, is given in Annexure-I.

(c), (d) & (e): To encourage the use of various non-conventional energy sources systems / devices in the area of wind and solar energy sector, the Government has been providing various financial concessions and fiscal incentives as per the details given at Annexure-II.

Annexure-I Annexure-I referred to in reply to part-(a) & (b) of the Lok Sabha Unstarred Question No.752 for 2.12.99 regarding production of non-conventional energy.

Details of energy produced through various non-conventional energy sources in the country 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

Million units 878 1 Wind Power 988 1065 2 Small Hydro Power Million units 300 330 410 3 Biomass Co-generation Million units 116 166 174 Energy from Urban & Industrial Wastes Million units 3.95 16.32 20.40 5 Biomass Gasifier Million units 2.57 4.78 5.92 6 Solar Photovoltaic Power Lakh KWh 1.00 9.00 9.00 7 Solar Photovoltaic Lakh KWh 8.20 9.91 11.87 Solar Thermal Water Heating System Million KWh 300 330 360 8 thermal 9 Energy Saved through SPV Pumps Million units 4.10 6.02 7.93 & Wind Pumps

Annexure-II referred to in reply to part-(c) (d) & (e) of the Lok Sabha Unstarred QuestiorNo.752 for 2.12.99 regarding production of non-conventional energy.

Details of Financial Concessions and Fiscal Incentives provided under Solar & Wind EnergyProgrammes of the Ministry of Non-Conventional Energy Sources. 1 Solar Photovoltaic Programme:

Rs.1500 (fixed) i Solar Lanterns ii Solar Home Lighting System Rs.6,000 or 50% of ex-works cost, which ever is less. iii Solar Street Lighting System Rs.12,000 or 50% of ex-works cost, which ever is less. iv Solar Power Plants & Other Systems Rs.200000/kWp of PV array Capacity or 50% of ex-works cost, which ever is less. Rs. 125 per watt of PV Array subject to v Solar Photovoltaic Pumps a maximum of Rs. 2,50,000. In addition user can avail soft loan from Indian Renewable Energy Development Agency (IREDA) at 5% annual interest rate on the 90% amount of the remaining unsubsidized portion of the pump cost. vi SPV Power Projects Financial support upto 2/3 of the project cost subject to a maximum of Rs.2.00 crores per 100 kW grid interactive SPV Power Projects. vii Solar Thermal Energy Programme Soft loan scheme through IREDA and commercial banks for Solar Water Heaters, Solar Cookers and other Solar devices. 2 Wind Energy Programme : Rs.20,000 - Rs.45,000 per pump depending i Wind Pump upon the type of pump. ii Aero-generators / Hybrid Systems 80% of the ex - work cost (Maximum Rs.2.00 lakh kW) for community application and 50% of the ex-work cost (Maximum Rs.1.25 lakh per kW) for other applications. iii Wind Power Projects fiscal and Promotional Incentives:-(1) 100% accelerated depreciation. (2) Concessional Customs Duty. (3) Excise Duty / Sales Tax Exemption. (4) 5 years Tax Holiday for Power Projects. (5) Industry status, Capital subsidy and Sales Tax benefits by States. (6) Facilities by SEB's for Grid Connection. (7) Financial Assistance for Demonstration Projects to State Governments / State Nodal Agencies upto 60% of the full cost of wind electric generator including spare and erection / commissioning. A bench mark of Rs.3.20 crore per MW has been fixed. Full cost of wind turbine equipment for

Wind-Diesel Projects.