

### Wind energy potential

3515. Prof. P.J. KURIEN: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) the total estimated potential of wind energy in the country, State-wise;
- (b) the details of wind energy potential tapped at present, State-wise; and
- (c) the details of Governments action plan to tap the full wind energy potential of the country?

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH) : (a) As per the Wind Atlas published by the Centre for Wind Energy Technology (C-WET), the wind power potential in the country has been estimated to be 49,130 MW . The State-wise breakup is given in the Statement-I (*See below*).

(b) The State-wise wind power installed capacity upto July, 2011 is given in the Statement-II (*See below*).

(c) The wind power is one of the fastest growing renewable energy sector in the country. The potential in various States is being tapped with time with private sector investment. The current years target is 2,400 MW. The Government is promoting wind power projects by providing fiscal and promotional incentives such as 80% accelerated depreciation to generators and concessional import duty on certain components of wind electric generators, and excise duty exemption to manufacturers. 10 years tax holiday on income generated from wind power projects is also available. Technical support including wind resource assessment is provided by the Centre for Wind Energy Technology (C-WET), Chennai. This apart, preferential tariff is being provided in potential states. Government has also announced a Generation Based Incentives (GBI) under which Rs. 0.50/unit generated from wind power projects is being provided to the projects which do not avail accelerated depreciation benefit.

### Statement-I

#### State-wise Wind Power Potential

States/UTs	Installable Potential (M W)
1	2
Andhra Pradesh	5394
Gujarat	10609

1	2
Karnataka	8591
Kerala	790
Madhya Pradesh	920
Maharashtra	5439
Rajasthan	5005
Tamil Nadu	5374
West Bengal*	22
Orissa	910
Andaman & Nicobar	2
Arunachal Pradesh*	201
Assam*	53
Chhattisgarh*	23
Himachal Pradesh*	20
Jammu & Kashmir*	5311
Lakshadweep	16
Manipur*	7
Meghalaya*	44
Nagaland*	3
Sikkim*	98
Uttarakhand*	161
Uttar Pradesh*	137
TOTAL	49130

\*Wind potential has yet to be validated with measurements.

**Statement-II**

*State-wise wind power installations*

States	Capacity(MW)
Andhra Pradesh	198
Gujarat	2284
Karnataka	1765
Kerala	35
Madhya Pradesh	276
Maharashtra	2358
Rajasthan	1643
Tamil Nadu	6160
Others	4
TOTAL	14723

**Energy generation from city wastes**

3516. SHRI BALWINDER SINGH BHUNDER: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether efforts are being made to produce energy from city wastes in various metropolitan cities; and

(b) if so, the details thereof and the amount of energy being generated through the waste management?

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH) : (a) and (b) Ministry of New and Renewable Energy is implementing a programme for setting up of five new projects on energy recovery from municipal solid wastes. The programme provides for capital subsidy of Rs. 2.00 crore per MW with upper limit of Rs. 10.00 crore per project besides fiscal benefits of customs and excise duty concessions. No projects are in operation as of now, however two projects on power generation from municipal solid wastes, namely, a 16 Mega Watt (MW) project at Okhla, New Delhi and an 8 MW project at Bangalore, Karnataka are under installation.