

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

UNSTARRED QUESTION NO:4600  
ANSWERED ON:21.02.2014  
PRODUCTION OF ENERGY FROM AGRICULTURAL WASTE  
Gandhi Shri Feroze Varun

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

- (a) whether the Government has assessed quantity of agricultural waste produced in the country and its utilisation for the production of energy;
- (b) if so, the details thereof; and
- (c) the steps taken/proposed to be taken by the Government in this regard?

**Answer**

THE MINISTER OF NEW AND RENEWABLE ENERGY (DR. FAROOQ ABDULLAH)

(a)&(b): Yes. Madam. The Ministry of New and Renewable Energy (MNRE) in association with Indian Institute of Science, Bangalore has estimated that about 500 million tons of agricultural and agro-industrial residues are being generated annually in the country. About seventy percent of these residues are used as fodder, as fuel for domestic and industrial sectors and for other economic purposes. About 120-150 million tons of surplus agro industrial and agriculture residues per year could be surplus for power generation. The state-wise details of biomass generation, biomass surplus and estimated power potential from agricultural residues is given at Annexure.

(c): MNRE is promoting efficient utilization of biomass like agricultural and agro-industrial residues for power generation in the country. Projects based on biomass combustion and biomass co-generation technologies with a total capacity of over 3,700 MW have been set up in the country as on 31st January 2014.

**Annexure**

Annexure referred to in reply to parts (a) & (b) of the Lok Sabha Unstarred Question No. 4600 for 21st February, 2014 regarding "Production of Energy from Agricultural Waste"

**State-wise details of biomass generation, surplus and estimated power potential from agricultural residues**

State	Biomass Generation (kT/Yr)	Biomass Surplus (kT/Yr)	Estimated power Potential (MW)
-------	-------------------------------	----------------------------	-----------------------------------

Andhra Pradesh	43893.2	6956.4	863.3
Arunachal Pradesh	400.4	74.5	9.2
Assam	11443.6	2346.9	283.9
Bihar	25756.9	5147.2	641.1
Chhattisgarh	11272.8	2127.9	248.5
Goa	668.5	161.4	20.9
Gujarat	29001	9085.5	1224.8
Haryana	29034.7	11342.9	1456.9
Himachal Pradesh	2896.9	1034.7	132.6
Jammu & Kashmir	1591.3	279.6	37.1
Jharkhand	3644.9	890	106.7
Karnataka	34167.3	9027.2	1195.7
Kerala	11644.3	6352.1	864.4
Madhya Pradesh	33344.8	10329.3	1373.3
Maharashtra	47624.8	14789.6	1983.7
Manipur	909.4	114.4	14.3
Meghalaya	511.1	91.6	11.3
Mizoram	61.1	8.5	1.12
Nagaland	492.2	85.2	10
Orissa	20069.5	3676.8	429.3
Punjab	50847.6	24842.9	3172.2
Rajasthan	29851.3	8645.7	1126.7
Sikkim	149.5	17.8	2.29

Tamil Nadu	22507.6	8900	1160
Tripura	40.9	21.1	2.94
Uttar Pradesh	60322.2	13737.9	1746.2
Uttaralhand	2903.2	638.4	80.9
West Bengal	35989.9	4301.5	529.3
Total	511041	145026.6	18728.7

(kT/yr=1000 tons per year; MW = Megawatt)