

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 302
TO BE ANSWERED ON 25.02.2016

POWER GENERATION FROM STRAW OF PADDY

302. SHRI RAJESHBHAI CHUDASMA:

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

- (a) the details of schemes being implemented by the Government for power generation from waste including from straw of paddy in the country,
- (b) whether the Government proposes to encourage the States to start projects for power generation from waste and paddy,
- (c) if so, the number of such plants set up so far in the country and the quantum of power generated from waste material along with the percentage of such power out of total power generated in the country during the last three years, State/UT-wise; and
- (d) the details of incentives given at present proposed to be given for promoting power generation from waste?

ANSWER

THE MINISTER OF STATE FOR POWER, COAL & NEW AND RENEWABLE
ENERGY (INDEPENDENT CHARGE) (SHRI PIYUSH GOYAL)

(a)&(b): Ministry of New and Renewable Energy (MNRE) is implementing schemes to support promotion of Biomass Power generation using bio-waste from agricultural, industrial/ agro-industrial sector, bagasse, crop/agro residues, including straw of paddy. States are encouraged to evolve power projects with incentives as per details given at Annexure – I.

(c): 418 plants aggregating 4418 MW of Biomass power (grid connected), 193 plants aggregating 600 MW (captive power) and 100 plants aggregating 106 MW (waste to power) has been set up till 31.03.2015. Only one plant of 12 MW capacity based on agro waste/residue (straw of paddy) was set up in Punjab in 2010 with 34.1, 27.1, 42.9 Million KWH generated during 2012-13, 2013-14 and 2014-15 respectively. Percentage of power generation from such plants is 1.90 % of total power generated (2,71,772 MW as on 31.03.2015). State-wise cumulative power generation (MW) for the last three years is given at Annexure –II.

(d): Brief about incentives being given under the scheme is placed at Annexure – I.

ANNEXURE-I

Annexure-I referred to in reply to parts (a),(b) & (d) of Lok Sabha
Unstarred Question No. 302 to be answered on 25/02/2016

Project Type	Special Category States	Other States
Biomass Power projects	Rs.25 lakh X (C MW) (Maximum Support of Rs 1.5 Crore per Project.)	Rs.20 lakh X (C MW) (Maximum Support of Rs 1.5 Crore per Project.)
Bagasse Co-generation by Private sugar mills*	Rs.18 lakh X (C MW) (Maximum Support of Rs 1.5 Crore per Project.)	Rs.15 lakh X (C MW) (Maximum Support of Rs 1.5 Crore per Project.)
Bagasse Co-generation projects by cooperative/ public sector sugar mills 40 bar & above 60 bar & above 80 bar & above	Rs.40 lakh Rs.50 lakh Rs.60 lakh Per MW of surplus power (maximum support Rs. 6.0 crore per project)	Rs.40 lakh Rs.50 lakh Rs.60 lakh Per MW of surplus power (maximum support Rs. 6.0 crore per project)
Power Generation from Biogas, Solid Industrial, Agricultural Waste/residues excluding bagasse through Boiler + Steam Turbine Configuration	Rs. 0.20 crore/MW (Max. Rs. 1.20crore/project)	Rs. 0.20 crore/MW (Max. Rs. 1 crore/project)
Power Generation from Biogas (engine / gas turbine route) and production of bio-CNG for filling into gas cylinders	Rs. 1.00 crore/MW Or bio-CNG from 12000 m3 biogas (Max. Rs.5 crore/project)	Rs. 1.00 crore/MW Or bio-CNG from 12000 m3 biogas (Max. Rs.5 crore/project)
Biogas generation from Urban, Industrial and Agricultural Wastes/residues	Rs. 0.50 crore /MWeq. (12000 m3 biogas /day with maximum of Rs. 5 cr./ project)	Rs. 0.50 crore /MWeq. (12000 m3 biogas /day with maximum of Rs. 5 cr./ project)
Power generation from biogas at Sewage Treatment Plant or through biomethanation of Urban and Agricultural Waste/residues including cattle dung or production of bio-CNG.	Rs. 2.00 crore/MW or bio-CNG from 12000 m3 biogas/day (Max. Rs. 5 crore/project)	Rs. 2.00 crore/MW or bio-CNG from 12000 m3 biogas/day (Max. Rs. 5 crore/project)
Power generation from Municipal Solid Waste	Rs. 2.00 crore/MW (Max. Rs.10crore/project)	Rs. 2.00 crore/MW (Max. Rs.10crore/project)

ANNEXURE-II

Annexure-II referred to in reply to part (c) of Lok Sabha Unstarred
Question No. 302 to be answered on 25/02/2016

State	Generation (in MU)
Andhra Pradesh	1797.42
Bihar	205.791
Chattisgarh	3296.062
Gujarat	107.886
Haryana	310.75
Karnataka	8395.959
Kerala	74.475
Madhya Pradesh	127.19
Maharashtra	6517.8
Odisha	41.360
Punjab	1150.976
Rajasthan	509.145
Tamil Nadu	5499.862
U.P.	3036.547