

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 387
ANSWERED ON 08.12.2022

ELECTRICITY FROM SOLID WASTE

+387. SHRI VISHNU DAYAL RAM

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

- (a) whether power plants are producing electricity, biogas and bio-CNG from solid waste across the country;
- (b) if so, the details thereof along with the quantum of production/generation from these plants, State/UT-wise;
- (c) whether the Government proposes to set up certain new plants;
- (d) if so, the details thereof; and
- (e) the number of plants proposed to be set up across the country, States/UT-wise including Jharkhand?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a) & (b) As on 30.11.2022, 6 plants with BioCNG generation capacity of 29520 kg/day and 12 plants with electricity generation capacity of 164.14 MW from municipal solid waste (MSW) are running in the country. The State-wise details are given at **Annexure-I**.

(c) to (e) The Ministry of New and Renewable Energy is implementing Waste to Energy (WTE) Programme under the umbrella of National Bioenergy Programme. The WTE Programme has a budget outlay of Rs 600 crore for the period FY 2021-22 to FY 2025-26. This Programme aims to support setting up of Waste to Energy plants for generation of Biogas, BioCNG and electricity from urban, industrial and agricultural waste by providing central financial assistance (CFA) (However, new MSW to Power projects are not supported under the Programme). Such projects are set up in various States/UTs by project developers and interested developers seek CFA under the Programme.

Further, Ministry of Petroleum and Natural Gas, under the Sustainable Alternative Towards Affordable Transportation (SATAT) initiative envisages setting up of 5000 BioCNG plants by 2023-24 with production target of 15 MMT of BioCNG from urban, industrial and agricultural waste including municipal solid waste.

SATAT initiative encourages entrepreneurs to set up BioCNG plants, produce & supply BioCNG to Oil Marketing Companies (OMCs) for sale as automotive fuels. As on 31st Oct, 2022, total **3694** LoIs have been issued by OMCs for BioCNG capacity addition of **23868** Tons per day. List of LOIs issued by OMCs in various States/UTs including Jharkhand is given at **Annexure-II**.

Annexure in reply to part (a) & (b) of the Lok Sabha unstarred Question No. 387 to be answered on 08.12.2022 regarding “Electricity from Solid Waste”

Waste to Energy Projects for generation of Biogas, BioCNG and electricity from municipal solid waste installed in the Country, as on 30-11-2022

	State/UT	BioCNG generation capacity	Power Generation Capacity
		<i>Kg/day (Nos of plants)</i>	<i>MW (Nos of plants)</i>
1.	Andhra Pradesh	3330.00 (3)	30.00 (2)
2.	Delhi		84.00 (4)
3.	Goa		0.34 (1)
4.	Gujarat		7.50 (1)
5.	Haryana		8.00 (1)
6.	Madhya Pradesh	16000.00 (1)	11.50 (1)
7.	Maharashtra	8190.00 (1)	3.00 (1)
8.	Telangana	2000.00 (1)	19.80 (1)
	Total	29520.00 (6)	164.14 (12)

Annexure in reply to part (e) of the Lok Sabha unstarred Question No. 387 to be answered on 08.12.2022 regarding “Electricity from Solid Waste”

State-wise details of LoIs issued by OMCs for setting up of BioCNG plants, as on 31-10-2022:

	States/UTs	Nos of BioCNG projects	Project capacity (TPD)
1.	Andhra Pradesh	137	812
2.	Andaman and Nicobar Island	2	15
3.	Arunachal Pradesh	6	20
4.	Assam	88	295
5.	Bihar	116	508
6.	Chandigarh	2	14
7.	Chhattisgarh	86	565
8.	Dadar and Nagar Haveli	1	10
9.	Delhi	16	133
10.	Goa	4	40
11.	Gujarat	268	1414
12.	Haryana	360	3778
13.	Himachal Pradesh	13	246
14.	Jammu and Kashmir	6	39
15.	Jharkhand	29	209
16.	Karnataka	283	1248
17.	Kerala	196	498
18.	Madhya Pradesh	215	1475
19.	Maharashtra	374	3259
20.	Manipur	2	7
21.	Meghalaya	6	28
22.	Mizoram	3	6
23.	Nagaland	6	13
24.	Odisha	84	648
25.	Puducherry	7	41
26.	Punjab	119	1003
27.	Rajasthan	53	321
28.	Tamil Nadu	225	1244
29.	Telangana	85	688
30.	Tripura	13	36
31.	Uttar Pradesh	776	4528
32.	Uttarakhand	38	195
33.	West Bengal	75	533
	Grand Total	3694	23868