

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 1392

ANSWERED ON 31/07/2024

WASTE TO ENERGY PROGRAMME

1392. SHRI KAMAKHYA PRASAD TASA

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

- (a) the details of utilization of funds of Central Financial Assistance (CFA) for Waste to Energy Programme during the last two years in the North-Eastern Region, project-wise;
- (b) whether the Government has data on the establishment of new bio-methanation plants under the Waste to Energy Programme in the country including North-Eastern States and if so, the details thereof;
- (c) the steps taken by the Government to set up the bio-methanation plants in North-Eastern States;
- (d) whether the Government has developed any monitoring mechanism for the plants which get Central Financial Assistance under Waste to Energy Programme; and
- (e) if so, the details thereof and if not, the reasons therefor?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

- (a) Under the Waste to Energy programme of Ministry of New and Renewable Energy (MNRE), Central Financial Assistance (CFA) is provided for setting up of Waste to Energy projects based on the applications received from the project developers. During the last two years, no application has been received from North-Eastern Region under the Waste to Energy programme of MNRE.
- (b) As on 30.06.2024, total 64 bio-methanation plants have been set up in the country under the Waste to Energy programme dated 02.11.2022, as per details at **Annexure-I**. No such projects have been set up in the North-Eastern States.
- (c) Various steps taken by the Government to set up bio-methanation plants in North-Eastern States, inter-alia, include:
 - i. Under the National Bioenergy Programme, 20% higher CFA is provided for bio-methanation projects set up in Special Category States, including the North-Eastern Region, than the standard CFA pattern for normal category states. Details of standard CFA pattern for bio-methanation projects is given at **Annexure-II**.
 - ii. Urban Local Bodies in all States, including North-Eastern States, are encouraged to set up Municipal Solid Waste based Biomethanation plants (Compressed Biogas (CBG)/Biogas plants) for which additional central assistance (ACA) is provided under Swachh Bharat Mission-Urban as per the Operational Guidelines.
- (d) & (e) Under the Waste to Energy Programme guidelines dated 02.11.2022, inspection for plants performance is carried out by designated inspection agencies before the release of CFA.

In addition, developers are required to share generation data of the Waste to Energy plants through SCADA System or a remote monitoring system to Ministry of New and Renewable Energy.

Annexure-I

Annexure referred to in reply to parts (b) of the Lok Sabha Unstarred Question No. 1392 to be answered on 31.07.2024 regarding “Waste to Energy Programme”

Details of bio-methanation projects set up in the country under the Waste to Energy programme:

Type of bio-methanation project	No.s of project	Installed capacity (in MWeq)
Biogas	11	11.77
BioCNG	42	59.31
Power (based on Biogas)	11	14.26
Total	64	85.33

Annexure-II

Annexure referred to in reply to parts (c) of the Lok Sabha Unstarred Question No. 1392 to be answered on 31.07.2024 regarding “Waste to Energy Programme”

i. Standard CFA pattern for bio-methanation projects under Waste to Energy Programme:

Type of project	CFA (in Rs Crores)
Biogas generation	Rs 0.25 per 12000cum/day (Maximum CFA of Rs. 5.0 Cr/project)
BioCNG generation	Rs 4.0 Crore per 4800 kg/day (for BioCNG generation from new biogas plant) (Maximum CFA of Rs. 10.0 Cr/project for both cases)
Power generation based on Biogas	Rs 0.75 Crore/MW (for power generation from new biogas plant) (Maximum CFA of Rs. 5.0 Cr/project for both cases)

20% higher CFA for special category states (NE Region, Sikkim, Himachal Pradesh and Uttarakhand, Jammu & Kashmir, Ladakh, Lakshadweep, Andaman & Nicobar Islands) and Gaushalas/Shelters.

ii. Standard CFA pattern for bio-methanation projects under Biogas Programme:

- a. Rs. 35,000/- to Rs. 45,000/- per kilowatt for power generation, and
- b. Rs. 17,500/- to Rs. 22,500/- per kilowatt equivalent for thermal applications (25 - 2500 cubic meter/day plant capacity)