GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 4487
ANSWERED ON 20/08/2025

MULTIPLE FEEDSTOCK BIOGAS PLANTS

4487. SHRI KONDA VISHWESHWAR REDDY

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

(a) whether the Government has identified or supported successful biogas plants in the country that operate using multiple feedstocks such as cattle dung, agricultural residue, food waste and sewage;
(b) if so, the details of such plants including their location, installed capacity, feedstock mix and operational performance;
(c) whether the Government has evaluated the cost-efficiency, scalability and environmental benefits of multi-feedstock biogas models compared to single feedstock plants and if so, the details thereof;
(d) the policy and financial incentives available for promoting multi-feedstock biogas plants particularly in rural and semi-urban areas; and
(e) whether the Government proposes to replicate successful models at scale under the Sustainable Alternative Towards Affordable Transportation (SATAT) or other schemes and if so, the details of roadmap for the same?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a) to (c) The Ministry of New & Renewable Energy (MNRE) has been supporting biogas, Bio-CNG, and biogas to Power projects, under the Waste to Energy Programme (WTE) during Phase-I of National Bioenergy Programme (NBP), that utilizes various feedstocks such as cattle dung, agricultural residue, food waste and sewage sludge, including multiple feedstocks.

The details of multiple feedstock-based WTE projects supported by MNRE during Phase-I of NBP are given at **Annexure-I.**

No comparative evaluation has been done by MNRE to assess cost-efficiency, scalability and environmental benefits of multi-feedstock biogas models compared to single feedstock plants.

Multi-feedstock biogas plants would utilize locally available waste streams, and are comparatively stable due to balanced carbon-nitrogen ratios, and environmentally beneficial as they process a wider range of biodegradable wastes, reduces methane emissions from open dumping, and produces high-quality digestate as bio-fertilizer.

(d) The details of Central Financial Assistance (CFA) pattern are given at **Annexure-II.**

(e) Under Waste to Energy component of National Bioenergy Programme, MNRE focuses on supporting technology agnostic projects for implementation of Bio-methanation based projects at scale by providing CFA, whereas other relevant Ministries and Departments are also extending their financial support to such projects.

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Annexure-I

Annexure referred to in reply to part (a) to (c) of the Lok Sabha Unstarred Question No. 4487 to be answered on 20.08.2025 regarding "Multiple Feedstock Biogas Plants"

State-wise details of applications received and sanctioned under Waste to Energy Programme during Phase-I of NBP:

Sl. No.	Project Developer	Location of Plant	Type of project	Installed Capacity (kg/day)	Commissioning Status
1.	M/s IOT Biogas Pvt Ltd (Also known as IAV Biogas)	Namakkal, Tamil Nadu	BioCNG	10000	Commissioned
2.	M/s SLR Energy	Cuddalore, Tamil Nadu	BioCNG	2800	Commissioned
3.	Akshar Biotech Private Limited	Behind J7k line, Near Parvat Patiya, Dumbhal, Punakumbhariya road, surat	BioCNG	1200	Commissioned
4.	Victory Green Energies Private Limited	Survey No:276, Block No.:360, Near Meena Hotel, Kosamba, NH-08, Mangrol-394125, Surat, Gujarat.	BioCNG	2400	Commissioned
5.	Reliance New Solar Energy Ltd.	Village-Kanachikari Navagam, Taluka-Lalpur, District-Jamnagar, Gujarat-361006	BioCNG	2400	Commissioned
6.	Maanvi Renewable (OPC) Private Limited	At Village Gohana, Sonipat, Haryana 131001	BioCNG	3000	Under Installation
7.	Hetero Renewable Energy Private Limited	Survey no. 489, Amadabakula Village, Kothakota Mandal, Wanaparthy Dist. TS,509381	BioCNG	3360	Under Installation
8.	Enlighten Biofuels & Biofertilizer Private Limited	Nangli Dairy Colony, Najafgarh Zone	BioCNG	5600	Under Installation
9.	ENLIGHTEN BIOFUELS & BIOFERTILIZER PRIVATE LIMITED	Goyla Dairy Colony, Najafgarh Zone	BioCNG	5600	Under Installation

Annexure-II

Annexure referred to in reply to part (d) of the Lok Sabha Unstarred Question No. 4487 to be answered on 20.08.2025 regarding "Multiple Feedstock Biogas Plants"

CFA Pattern for bio methanation based projects under Waste to Energy programme:

Type of project	CFA
Biogas generation	Rs 0.25 Crores 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) Rs 3.0 Crore per 4800 kg/day (for BioCNG generation from existing 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) Rs 0.5 Crore/MW (for power generation from existing Biogas plant) *(Maximum CFA of Rs. 5.0 Cr/project for both cases)*

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

The details of CFA being provided for medium size biogas plants (above 25 M^3 to 2500 M^3 biogas generation per day) under the Biogas Programme:

Power generating Capacity (kW)	**CFA** limited to the following ceiling limit**		**Administrative Charges for PIA***	
	Power Generation	Thermal Application	Power Generation	Thermal application
3 kW – 50 kW	₹ 45,000/kW	₹ 22,500 per kWeq thermal/ cooling	10% of the CFA	5% of the CFA
>50 kW – 200 kW	₹ 40,000 per kW	₹ 20,000/- per kWeq the cooling	₹2,00,000/- (fixed)	₹1,00,000/- (fixed)
>200 kW – 250 kW	₹ 35,000 per kW	₹ 17,500/- per kWeq thermal/ cooling	₹2,50,000/- (fixed)	₹1,00,000/- (fixed)

***Administrative Charges for PIA shall be provided for technical supervision, submission of project completion & commissioning reports and monitoring of projects.*

*** Special Incentives for NER, Island, Registered Gaushalas; and SC/ST: An incentive of 20% over and above the CFA mentioned in Table*