

LOK SABHA
UNSTARRED QUESTION No. 4695
TO BE ANSWERED ON 21st August, 2025

CONVERSION OF MUNICIPAL SOLID WASTES INTO COMPRESSED BIO-GAS

†4695. SMT. ROOPKUMARI CHOUDHARY:
SHRI VISHWESHWAR HEGDE KAGERI:
SHRI TEJASVI SURYA:
DR. HEMANT VISHNU SAVARA:
SMT. SHOBHANABEN MAHENDRASINH BARAIYA:

पेट्रोलियम और प्राकृतिक गैस मंत्री

Will the Minister of PETROLEUM AND NATURAL GAS be pleased to state:

- (a) whether the Government is promoting the conversion of Municipal Solid Wastes into Compressed Bio-Gas (CBG) across the country to promote circular economy;
- (b) if so, the details thereof;
- (c) the details and the number of municipal waste-based CBG plants set up across the country including Chhattisgarh and Maharashtra during each of the last ten years, State-wise, location-wise and capacity-wise;
- (d) the quantity of municipal solid waste processed by these CBG plants so far;
- (e) the impact of these plants on the environment of the country including the said States; and
- (f) whether any special initiative has been started for conversion of Municipal Solid Wastes into Compressed Bio-Gas in big cities like Mumbai, Thane, Palghar and Delhi and if so, the details thereof?

ANSWER
पेट्रोलियम और प्राकृतिक गैस मंत्रालय में राज्यमंत्री
(श्री सुरेश गोपी)

MINISTER OF STATE IN THE MINISTRY OF PETROLEUM AND NATURAL GAS
(SHRI SURESH GOPI)

(a) to (f) Government, in order to promote circular economy, have adopted a “Whole of Government” approach involving multiple Ministries and Departments for promoting conversion of organic waste [including Municipal Solid Waste (MSW)] into Biogas, Compressed Biogas (CBG), and organic manure. Various steps have been initiated including assured price for off-take of CBG through long term agreements with Oil and Gas Marketing Companies under Sustainable Alternative Towards Affordable Transportation (SATAT); the Umbrella Scheme of National Bio Energy Programme which inter-alia provides Central Financial Assistance to all kind of CBG/biogas plants; Additional Central Assistance for

Municipal Solid Waste-based CBG projects under Swachh Bharat Mission Urban 2.0; the inclusion of bio-manure produced from CBG plants as Fermented Organic Manure and Liquid Fermented Organic Manure under Fertilizer Control Order 1985; Market Development Assistance to promote Organic Fertilizer produced from CBG projects; the inclusion of CBG projects under 'White Category' on case to case basis; the inclusion of CBG projects under Priority Sector Lending; loan products from various Banks for financing of CBG projects; etc.

Additional initiatives such as guidelines for synchronization of CBG with CNG in CGD Network; a scheme for the development of pipeline infrastructure (DPI) for injection of CBG into the City Gas Distribution (CGD) network; and phase wise mandatory selling of CBG in CNG (T) and PNG (D) segment of CGD network have also been initiated by the Government.

Further, to promote the scientific management of MSW (including in the State of Chhattisgarh and Maharashtra), the Government have been promoting various types of waste processing facilities, such as Material Recovery Facilities (MRFs), composting plants, bio-methanation plants, Refused Derived Fuel (RDF) processing facilities, plastic waste processing facilities, waste to electricity plants, construction and demolition (C&D) waste plants, sanitary landfill including waste to energy plants and CBG plants. However, the states based on their resources, technology, topography, type of waste involved, climatic conditions etc. may opt for appropriate method of conversion.

The number of MSW/sewage waste based CBG plants set up in the Country during the last ten years with the details of capacity, location is at Annexure.

The setting up of MSW-based CBG projects reduces landfill burden; curbs methane emissions; promotes scientific waste processing; lowers pollution levels; converts waste into clean energy and organic manure thereby promotes circular economy.

ANNEXURE REFERRED TO IN REPLY TO PART (a) to (f) OF LOK SABHA UNSTARRED QUESTION NO. 4695 TO BE ANSWERED ON 21.08.2025 REGARDING CONVERSION OF MUNICIPAL SOLID WASTES INTO COMPRESSED BIO-GAS.

List of MSW based CBG plants

Sr.	Name of the project	District	State	Feed Stock	Feedstock Processing Capacity (TPD)
1.	Mahindra Waste To Energy Solutions Limited (Piduguralla)	Guntur	Andhra Pradesh	MSW	21.25
2.	Mahindra Waste to Energy Solutions Limited (Adoni)	Kurnool	Andhra Pradesh	MSW	20
3.	Mahindra Waste to Energy Solutions Limited (Tirupati)	Tirupati ,Chittor	Andhra Pradesh	MSW	42
4.	Vyzag Bio-Energy Fuel Pvt. Ltd.	Visakhapatnam	Andhra Pradesh	MSW	30
5.	Blue Planet Biofuel Private Limited	North Goa	Goa	MSW	12.5
6.	GAIL (India) Limited	Ranchi	Jharkhand	MSW and Cow dung	150
7.	Nexusnovus Airport Waste Management Pvt. Ltd	Devanahalli, Bangalore	Karnataka	MSW	52.5
8.	Sustainable Impacts Private Limited	Ramnagara	Karnataka	MSW	50
9.	Indore Clean Energy Pvt. Ltd.	Indore	Madhya Pradesh	MSW	500
10.	Noble Exchange Environment Solutions Pune LLP	Pune	Maharashtra	MSW	400
11.	Avni DM Green Energy Pvt Ltd.	Pune	Maharashtra	MSW	50
12.	MandiGobindgarh	MandiGobindgarh	Punjab	MSW	15
13.	Spark Bio Gas Private Limited	Chennai	Tamil Nadu	MSW	140
14.	Srinivasa Waste Management Services Private Limited	Chennai	TamilNadu	MSW	100
15.	Hyderabad Integrated MSW Limited	Hyderabad	Telangana	MSW	160
16.	EverEnviro Resource Management Private Limited	Prayagraj	Uttar Pradesh	MSW	300
Total					2043

List of Sewage Sludge based CBG plants

Sr.	Name of the project	District	State	Feed Stock	Feedstock Processing Capacity (MLD)
1	Khilari Infrastructure Private Limited	Ludhiana	Punjab	Sewage Waste	165
2	Brajdharm Power Private Limited	Jaipur	Rajasthan	Sewage Waste	87.5
3	Energion Logistics Private Limited	Hyderabad	Telangana	Sewage Sludge	339
4	Energion Logistics Private Limited	Hyderabad	Telangana	Sewage Sludge	172
5	Anarobic Energy Private Limited	Haridwar	Uttarakhand	Sewage Sludge	45
Total					808

Source: MNRE, MoHUA & MoPNG