



# National Bioenergy Programme

A presentation by  
Ministry of New and Renewable Energy  
13<sup>th</sup> December 2023

# MNRE's Bioenergy programmes till 31.03.2021

- Bioenergy sector supported through targeted central sector schemes since 1980s
- Schemes implemented between 2018 to 2021 :
  - Waste to Energy Programme
  - Biogas Programme (NNBOMP & BPGTP)
  - Biomass co-gen Programme
- Schemes valid till 31.03.2021
- Central financial assistance to projects developers for setting up of projects for generation of Biogas/ Producer gas/BioCNG/Power provided under these schemes

## Cumulative Achievement till 31.03.2021

Waste to Energy projects (Biogas, BioCNG & Power)	394 MWeq (228 nos of projects)
Biomass power/cogen projects	10145 MW
Small & medium Biogas Plants	50.8 Lakhs

# National Bioenergy Programme (NBP)

Period: 2021-22 to 2025-26, Budget outlay : Rs 1715 cr for two phases, Phase-I budget outlay: Rs 858 Cr

## Waste to Energy Programme



Phase-I Budget  
outlay - **Rs 600**



Support to  
BioCNG/Boigas/Power  
plants

## Biomass Programme



Phase-I Budget  
outlay - **Rs 158**



Support to cogeneration  
and pellet/briquettes  
plants

## Biogas Programme



Phase-I Budget  
outlay - **Rs 100**



Support to small and  
medium biogas plants

## Features

- **Online** submission of applications
- **Minimal documentation**
- Bank funded and Self-funded both projects eligible for CFA.
- **Advance CFA** for bank financed BioCNG projects under SATAT
- **20% higher CFA** for special category states\* and Gaushalas
- CFA for small and medium size biogas plants increased.
- **MSW to Power projects are now supported by MoHUA**

*\*(NE Region, Sikkim, Himachal Pradesh and Uttarakhand), Jammu & Kashmir, Ladakh, Lakshadweep and Andaman & Nicobar Island.*

# Waste to Energy Programme

Type of project	CFA Pattern
<b>Biogas generation</b>	Rs 0.25 per 12000cum/day
<b>BioCNG generation</b>	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)
<b>Power generation based on Biogas</b>	Rs 0.75 Crore/MW (for power generation from new biogas plant) Rs 0.5 Crore/MW (for power generation from existing Biogas plant)
<b>Power based on bio &amp; agro-industrial waste</b>	Rs 0.4 Crore/MW
<b>Biomass Gasifier</b>	Rs. 2,500 per kWe with dual fuel engines for electrical application Rs. 15,000 per kWe with 100% gas engines for electrical application Rs. 2 lakh per 300 kWth for thermal applications

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

## **Biomass Programme:** CFA pattern

<b>Project Type</b>	<b>Minimum eligible capacity for availing CFA</b>	<b>Rate of CFA</b>	<b>Maximum CFA per project</b>
<b>Briquette / Pellet Manufacturing plants</b>	1 TPH	Rs. 9.00 Lakh per TPH	Rs 45.00 Lakhs
<b>Biomass (Non-bagasse) cogeneration projects</b>	0.5 MW	Rs. 40.00 Lakhs per MW	Rs. 5.00 Crores

# Biogas Programme – CFA for(1 to 25 m3)

S N	Particulars	Biogas Programme					
A	CFA	1m3	2-4 m3	6 m3	8-10 m3	15 m3	20-25 m3
1	NER States / Hilly States / Special Category States and SC/ST of all states	17	22	29.2	34.5	63.25	70.4
2	All other States (General Category)	9.8	14.35	22.7	23	37.95	52.8
B 1	CFA for linking with sanitary toilets	1.6	1.6	1.6	1.6	Nil	Nil
B 2	CFA for biogas plant linked with biogas slurry filter unit	1.6	1.6	1.6	1.6	1.6	1.6
C.	Turn-Key Job Fee for construction, of biogas plants	<ul style="list-style-type: none"> <li>₹ 3,000/- plant fixed dome design from 1 to 10 m3 and</li> <li>₹ 5,000/- per plant for 15 to 25 m3</li> </ul>					
D.	Adm Charges– to State PIA	(Amount in ₹ )					
1	100 - 1999 nos. Plants.	1,00,000					
2	2,000 - 5,000 nos plants	10,50,000					
3	Above 5,000 nos. plants	24,50,000					

# Biogas Programme- CFA for(>25 to 25000 m<sup>3</sup>)

Power Gen. Capacity (kW)	CFA		Adm Charges for PIA	
	Power Generation	Thermal Application	Power Generation	Thermal application
3 kW – 50 kW	₹45,000 per 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 thermal/ 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 towards Supervision, DPR & Inspection
- 20% additional CFA for SC/ST, NER, Island & Registered Gaushalas



सत्यमेव जयते

Ministry of New and Renewable Energy  
Government of India

Thank You !