

Waste to Energy Scheme

The objective of this scheme is to support the setting up of Waste to Energy projects for generation of Biogas/ BioCNG/ Power or Syngas from urban, industrial and agricultural wastes/residues.

The scheme provides CFA to project developers and service charges to implementing / inspection agencies for ensuring successful commissioning of Waste to Energy plants.

Details of CFA for different components

- For Biogas generation:** Rs 0.25 crore per 12,000 m³ / day (maximum CFA – Rs. 5 Crores / project)
- For BioCNG/enriched Biogas/Compressed Biogas generation:** (maximum CFA – Rs. 10 crore/project)
 - BioCNG generation from new Biogas plant – Rs. 4 Crores per 4,800 Kg / day
 - BioCNG generation from existing Biogas plant – Rs. 3 Crores per 4,800 Kg / day
- For Power generation based on Biogas** (maximum CFA – Rs. 5 Crores / project):
 - Power generation from new Biogas plant – Rs 0.75 Crores / MW
 - Power generation from existing Biogas plant – Rs 0.5 Crores / MW
- For Power generation based on bio & agro-industrial waste (other than MSW through incineration process):** Rs. 0.40 Crores / MW (maximum CFA – Rs. 5 Crores / project)
- For Biomass Gasifier for electricity/ thermal applications:**
 - Rs. 2,500 / kWe with dual fuel engines for electrical application
 - Rs. 15,000 / kWe with 100% gas engines for electrical application
 - Rs. 2 lakh / 300 kWth for thermal applications

The eligible CFA would be 20% higher than standard CFA pattern for:

- All plants in special category states (Northeast region, Sikkim, Himachal Pradesh and Uttarakhand), Jammu & Kashmir, Ladakh, Lakshadweep and Andaman & Nicobar Islands
- Biogas/BioCNG/Power (biogas based) generation plants based on cattle dung as main feedstock set up by gaushalas registered with respective state governments.



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Waste to Energy Scheme:

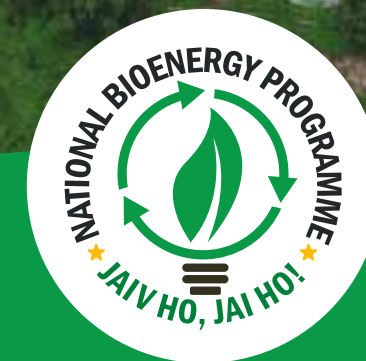
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Image Credit: GIZ



Powering a Sustainable Future with the National Bioenergy Programme

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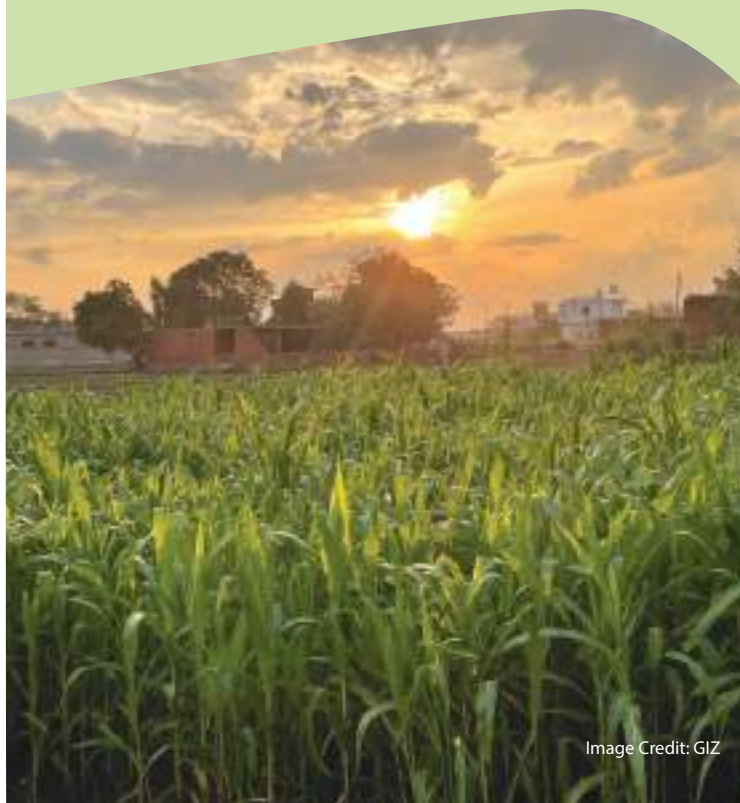


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Introduction

MNRE has notified the Phase I of the National Bioenergy Programme up to FY 2025-26. The objective of the Programme is to promote utilization of surplus biomass, cattle dung, industrial and urban bio-waste available in the country for recovery of energy.



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Benefits

MNRE is extending support in the form of Central Financial Assistance (CFA) for setting up of bioenergy projects. Further, the Programme not only promotes the utilization of surplus biomass in the country but, this way, also provides avenues for an additional source of income for farmers and rural households.

Schemes under the National Bioenergy Programme

- i. **Biomass Scheme** (scheme to support manufacturing of Biomass Briquette/Pellet and promotion of Biomass (non-bagasse) based Cogeneration in industries) to support setting up of Biomass Briquette/Pellet plants for use in power generation and Biomass (non-bagasse) based Cogeneration projects in industries.
- ii. **Biogas Scheme** to support setting up of family and medium-sized Biogas plants in rural areas.
- iii. **Waste to Energy Scheme** (scheme on energy from urban, industrial and agricultural wastes / residues) to support setting up of large Biogas, BioCNG, Syngas and Power plants (excluding municipal solid waste based power projects).



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Biomass Scheme

The objective of the scheme is to support setting up of Biomass Briquette/Pellet manufacturing plants and to support Biomass (non-bagasse) based Cogeneration projects in industries.

The scheme offers CFA to project developers and service charges to implementing / inspection agencies for setting up of Biomass projects.

Details of CFA for different components

- a. For Briquette/Pellet manufacturing plants: Rs. 9 Lakhs / TPH (maximum CFA – Rs. 45 Lakh / project).
- b. For non-bagasse Cogeneration projects: Rs. 40 Lakhs / MW (maximum CFA – Rs. 5 Crores / project).

Biogas Scheme

The objective of this scheme is to support setting up of Biogas plants for meeting clean cooking, lighting, thermal and small power needs of users which ultimately results in GHG emission reduction, improved sanitation, women empowerment and creation of rural employment.

Details of CFA for different components

- a. For small Biogas plants (1-25 m³ / day plant capacity): Rs. 9,800 to Rs. 70,400 / plant based on size of the plant in m³
- b. For power generation and thermal application (25 - 2500 m³ / day plant capacity): Rs. 35,000 to Rs. 45,000 / kW for power generation and Rs. 17,500 to Rs. 22,500 / kW equivalent for thermal applications

The eligible CFA would be 20% higher than the standard CFA for Northeast region, islands, registered gaushalas and SC / ST beneficiaries.



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