

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**RAJYA SABHA**  
**UNSTARRED QUESTION NO. 626**  
ANSWERED ON 25.07.2023

**NATIONAL BIO-ENERGY PROGRAMME**

626. DR. DHARMASTHALA VEERENDRA HEGGADE

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

- (a) the salient features of National Bio-Energy Programme;
- (b) the Budget outlay for the Programme;
- (c) whether the programme will be implemented in two phases, if so, the details thereof;
- (d) the State-wise details of biomass power and bagasse/ Non-bagasse cogeneration projects installed in the country during the last five years;
- (e) the amount of subsidy being provided per annum to the bio-gas plants established in the country;
- (f) the details of central financial assistance for setting up of Biogas projects / plants; and
- (g) the details of benefits of Bio-Energy?

**ANSWER**

**THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER**

**(SHRI R.K. SINGH)**

(a) to (c) The Ministry of New and Renewable Energy notified the National Bioenergy Programme in November, 2022 for the period 01.04.2021 to 31.03.2026. This programme, with a budgetary outlay of Rs. 1715 Crore, shall be implemented in two phases. The first phase has a budgetary outlay of Rs. 858 Crore.

The salient features of National Bio-Energy Programme are given as below:

- This programme provides Central Financial Assistance (CFA) for setting up of Bioenergy plants.
- Both bank financed and self-funded projects are also eligible for CFA.
- Phased/milestone-based CFA will be granted for bank financed BioCNG projects under SATAT initiative
- 20% higher CFA for special category states (NE Region, Sikkim, Himachal Pradesh and Uttarakhand, Jammu & Kashmir, Ladakh, Lakshadweep, Andaman & Nicobar Islands) and Gaushalas/Shelters.
- CFA is also available for setting up of pellets and briquettes manufacturing plants using biomass.
  
- Provisions for higher CFA to the small biogas plant beneficiary under categories of Schedule Castes / Scheduled Tribes.

(d) The State-wise details of biomass power and bagasse/ non-bagasse cogeneration projects installed in the country during the last five years (FY 2018-19 to 2022-23) are given at **Annexure-I**.

(e) & (f) The amount of CFA provided to Biogas plants under the National Bioenergy Programme is based on commissioning and submission of requisite documents as per the programme guidelines. Details of the CFA for setting up biogas projects provided under the National Bioenergy Programme are given in **Annexure-II**.

(g) Bioenergy helps in promoting circular economy by converting the organic waste/biomass into renewable energy apart from providing organic manure. Some of the major benefits of bioenergy are given as below:

- Improves energy access in remote or off-grid areas,
- Efficient treatment and disposal of waste such as urban, industrial and agriculture residue/waste,
- Promotes environmental sanitation and improves public health,
- Aids in reduction of non-renewable fossil fuels usage,
- Helps in reducing dependence on crude oil/natural gas/coal imports,
- Promotes employment generation and entrepreneurship especially in rural areas,
- Helps in reduction of greenhouse gas emissions,
- Helps in avoiding burning of surplus agriculture residue in open fields,
- Promotes organic farming and improves soil health,
- Provides clean fuel for cooking,
- Provides additional source for revenue for farmers.

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**Annexure referred to in reply to part (d) of the RS USQ 626 to be answered on  
25.07.2023 regarding “National Bio-Energy Programme”**

State-wise details of biomass power and bagasse/ non-bagasse cogeneration projects installed in the country during the last five years (FY 2018-19 to 2022-23):

Sr No	State	Project Capacity of Biomass power and bagasse/ non-bagasse cogeneration projects (in MW)
1	Bihar	13.40
2	Chhattisgarh	30.00
3	Gujarat	24.00
4	Haryana	35.00
5	Karnataka	118.00
6	Kerala	1.55
7	Madhya Pradesh	2.50
8	Maharashtra	397.20
9	Punjab	73.70
10	Tamilnadu	45.05
11	Telangana	1.00
12	Uttar Pradesh	1.00
13	West Bengal	18.70
	<b>Total</b>	<b>761.10</b>

**Annexure referred to in reply to parts (e) & (f) USQ 626 of the Rajya Sabha to be answered on 25.07.2023 regarding “NATIONAL BIO-ENERGY PROGRAMME”**

Details of Central Financial Assistance (CFA) for setting up of biogas projects provided under National Bioenergy Programme are given as below:

**1. CFA for Biogas Plants of size ranging from 1 m<sup>3</sup> to 25 m<sup>3</sup> Biogya generation per day:** The CFA for for Biogas plants of size ranging from 1 m<sup>3</sup> to 25 m<sup>3</sup> of biogas generation per day available under Biogas Programme of National Bioenergy Programme are as given below:

Sr. No	Particulars of Central Financial Assistance (CFA) and States / UTs, regions & categories of beneficiaries	Biogas Plants under Biogas Programme ranging from size 1 to 25 cubic Metre biogas per day (In ₹per plant )					
		1 m <sup>3</sup>	2-4 m <sup>3</sup>	6 m <sup>3</sup>	8-10 m <sup>3</sup>	15 m <sup>3</sup>	20-25 m <sup>3</sup>
A	CFA Applicable						
	(i) Hilly/NER States (Arunachal Pradesh, Assam, Himachal Pradesh, Jammu & Kashmir, Ladakh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura and Uttarakhand)	17,000	22,000	29,250	34,500	63,250	70,400
	(ii) Island; and						
	(iii) Scheduled Castes (SC)/ Scheduled Tribes(ST).						
	(iv) All other States and Categories	9,800	14,350	22,750	23,000	37,950	52,800

In addition to above-mentioned CFA, financial support is also available for Turn-Key Job Fee, Administrative Charges payable to PIA for physical target achievement range of biogas plants, Support for Training courses, Support for BDTCs and Incentive for saving fossil fuels & electricity.

**2. CFA for Biogas Plants of size ranging from 25 m<sup>3</sup> to 2500 m<sup>3</sup> Biogas generation per day:** The CFA for biogas plants of size above 25 m<sup>3</sup> to 2500 m<sup>3</sup> biogas generation per day available under Biogas Programme of National Bioenergy Programme are as given below:

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 per kW	₹ 22,500 per kW <sub>eq</sub> thermal/ cooling	10% of the CFA	5% of the CFA
>50 kW – 200 kW	₹ 40,000 per kW	₹ 20,000/- per kW <sub>eq</sub> thermal/ cooling	₹2,00,000/- (fixed)	₹1,00,000/- (fixed)
>200 kW – 250 kW	₹ 35,000 per kW	₹ 17,500/- per kW <sub>eq</sub> thermal/ cooling	₹2,50,000/- (fixed)	₹1,00,000/- (fixed)

**3. CFA for Biogas Plants of size more than 2500 m<sup>3</sup> Biogas generation per day:** The CFA for Biogas plants of size ranging from more 2500 m<sup>3</sup> of biogas generation per day available under Waste to Energy Programme of National Bioenergy Programme are as given below:

Type of project	CFA (in Rs Crores)
<b>Biogas generation</b>	Rs 0.25 per 12000cum/day
<b>BioCNG generation</b>	<ul style="list-style-type: none"> <li>• Rs 4.0 Crore per 4800 kg/day (for BioCNG generation from new biogas plant)</li> <li>• Rs 3.0 Crore per 4800 kg/day (for BioCNG generation from existing Biogas plant)</li> </ul> <p><i>(Maximum CFA of Rs. 10.0 Cr/project for both cases)</i></p>

**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.