

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 1910
ANSWERED ON 04.08.2026

**PROMOTION OF RENEWABLE ENERGY AND BIOMASS UTILISATION IN
PUNJAB**

1910. DR. VIKRAMJIT SINGH SAHNEY

WILL THE MINISTER OF NEW AND RENEWABLE ENERGY BE PLEASED TO STATE:

- (a) the number of households in Punjab that have benefited under the PM Surya Ghar Muft Bijli Yojana, along with the total subsidy released during the last three years;
- (b) the number of biomass and compressed biogas (CBG) projects sanctioned in Punjab during the said period and the estimated quantity of paddy straw proposed to be utilized annually through these projects;
- (c) whether Government proposes to provide additional incentives for expanding rooftop solar installations and promoting biomass and CBG projects, particularly to address stubble burning and enhance renewable energy generation in Punjab; and
- (d) if so, the details thereof?

ANSWER

THE MINISTER OF STATE FOR NEW & RENEWABLE ENERGY AND POWER

(SHRI SHRIPAD YESSO NAIK)

(a) to (d) To facilitate installation of rooftop solar (RTS) in the country, including in the state of Punjab, the Government is implementing PM Surya Ghar: Muft Bijli Yojana, which has provision for higher Central Financial Assistance (CFA) upto 60% of the benchmark cost for installation of RTS plants in the residential sector as per details given below:

Type of Residential Segment	CFA	CFA (Special Category States/UTs)
Residential Sector (first 2 kWp of RTS capacity or part thereof)	Rs.30,000/kWp	Rs.33,000/kWp
Residential Sector (with additional RTS capacity of 1 kWp or part thereof)	Rs.18,000/kWp	Rs.19,800/kWp
Residential Sector (additional RTS capacity beyond 3 kWp)	No additional CFA	No additional CFA
Group Housing Societies/ Residential Welfare Associations (GHS/RWA) etc. for common facilities	Rs.18,000/kWp	Rs.19,800/kWp

including EV charging up to 500 kWp (@ 3 kWp per house)		
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Under the PM Surya Ghar: Muft Bijli Yojana, since its launch in February 2024, a total of 17,384 RTS systems have been installed, benefitting 17,393 households and an amount of Rs. 112.62 crore has been released as CFA in the State of Punjab, as on 29.07.2026.

Ministry of New and Renewable Energy has been implementing National Bioenergy Programme (NBP) since November 2022. One of the objectives of the Programme is to encourage the efficient utilization of agricultural residues, which in turn will also address the stubble burning. The component wise CFA pattern under the Programme including in the State of Punjab is given at **Annexure-I.**

Under the Programme a total of 15 projects (8 related to biomass and 7 related to CBG) has been sanctioned as on 29.7.2026 for the state of Punjab. These projects on commissioning will be estimated to utilize Biomass including paddy straw of 11.95 lakh tons per year.

Annexure I referred to in reply of parts (a) to (d) of Rajya Sabha Starred Question No. 1910 to be answered on 04.08.2026 regarding Promotion of renewable energy and biomass utilisation in Punjab

The component wise CFA pattern under the National Bioenergy Programme

I. Waste to Energy Programme

Activity	CFA
Biogas generation	Rs 0.25 Crore per 12000cum/day (Maximum CFA- Rs. 5.00 Crores/project)
CBG generation	Rs 4.0 Crore per 4800 kg/day (for CBG generation from new biogas plant) Rs 3.0 Crore per 4800 kg/day (for CBG generation from existing biogas plant) (Maximum CFA- Rs. 10.00 Crores/project)
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- Rs. 5.00 Crores/project)
Power based on bio & agro-industrial waste	Rs 0.4 Crore/MW (Maximum CFA- Rs. 5.00 Crores/project)
Biomass Gasifier	Rs. 2,500 per kW _e with dual fuel engines for electrical application Rs. 15,000 per kW _e with 100% gas engines for electrical application Rs. 2 lakh per 300 kW _{th} for thermal applications

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

II. Biomass Programme

Activity	CFA
Briquette manufacturing plants	Rs. 9.00 Lakhs/ TPH (Maximum CFA- Rs. 45.00 Lakh per project).
Non-Torrefied Pellet manufacturing plant	Rs. 21 lakhs/ TPH production capacity or 30% of the capital cost considered for plant and machinery of 1 TPH plant, whichever is lower (Maximum Rs. 105 lakhs per project)
Torrefied Pellet manufacturing plant	Rs. 42 lakhs/ TPH production capacity or 30% of the capital cost considered for plant and machinery of 1 TPH plant, whichever is lower (Maximum Rs. 210 lakhs per project)
Non-Bagasse Cogeneration Projects	Rs. 40 Lakhs/ Megawatt Maximum CFA- Rs. 5.00 Crore per project).

III. Biogas Programme

Activity	CFA
Small biogas plants (1-25 m³/day plant capacity)	Rs. 9,800/- to Rs. 70,400/- per plant based on size of the plant in cubic meter
For Power generation and thermal application (25 - 2500 m³/day capacity)	Rs. 35,000/- to Rs. 45,000/- per kilowatt for power generation Rs. 17,500/- to Rs. 22,500/- per kilowatt equivalent for thermal applications. <i>Note: 20% higher than Standard CFA in for NER, Island, Registered Gaushalas and SC/ST beneficiaries);</i>

MW- Megawatt TPH- Tons per Hour KW- Killo Watt Cum- Cubic Meter