

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 1516**  
ANSWERED ON 10.02.2022

**EXPLORATION OF BIOENERGY CAPACITY**

+1516. SHRIMATI RANJEETA KOLI

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

- (a) the details of the plans made by the Government for the exploration of bio-energy capacity in the country;
- (b) the current status of electricity generation from the said energy sources;
- (c) whether the bio-energy plants in the rural areas of the country are functional or dormant and if so, the details thereof;
- (d) whether the Government proposes to increase the number of biogas plants in the country;
- (e) if so, the details thereof and if not, the reasons therefor;
- (f) whether the Government also proposes to set biogas plants in every household of the farmers of the country; and
- (g) if so, the details thereof and if not, the reasons therefor?

**ANSWER**

**THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER**  
**(SHRI R.K. SINGH)**

(a)to(g) The Ministry of New and Renewable Energy (MNRE) conducted a study through Administrative Staff College of India (ASCI) for assessment of biomass power and bagasse cogeneration potential in the year 2020. As per the study report finalized in March 2021, 228 Million Metric Ton (MMT) of surplus biomass is generated annually in India which has a power potential of 42312 Megawatt (MW) as on 2021.

Another study was undertaken by GEF-UNIDO in the year 2016 in consultation with Ministry of New and Renewable Energy to assess the potential of energy generation from Industrial and urban organic waste in India. As per study, the total estimated energy generation potential from **urban and Industrial organic waste in India is approximately 5690 MW<sub>eq</sub>** as on 2017.

MNRE was providing support to bioenergy plants under the following schemes:

- I. Scheme to Support Promotion of Biomass Based Cogeneration in Sugar Mills and Other industries in the Country
- II. Programme on Energy from Urban, Industrial, Agricultural Wastes/Residues and Municipal Solid Waste
- III. New National Biogas and Organic Manure Programme(NNBOMP)
- IV. Biogas based Power Generation (Off-Grid) and Thermal Energy Applications Programme (BPGTP)

These schemes were valid till 31.03.2021. The schemes have been continued for the period FY 2021-22 to 2025-26 only for meeting the already created liabilities. Thus, no new projects after 31.03.2021 are to be sanctioned.

The cumulative installed capacity of Bioenergy Based power plants in the country is around 10515 MW as on 31.01.2022. This includes 10175 MW from Biomass Based power generation, 332.5 MW from Waste to Power generation and 7.76 MW from Biogas Power Generation.

The technologies for the recovery of Power/Biogas are well established and with sustained supply of requisite quality feedstock and proper operation & maintenance on regular basis, these plants run properly and efficiently.

As per Central Electricity Authority (CEA), electricity generation from Bioenergy plants during the financial year 2020-21 was 16.4 Billion Units and for the period 01.04.2021 to 31.12.2021 the electricity generation was 10.67 Billion Units.

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