

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 453
ANSWERED ON 06/02/2024

EXPLORATION OF BIO-ENERGY

453. SHRI TIRUCHI SIVA

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

- (a) the details of the schemes formulated by Government for exploring the potential of bio-energy in the country along with the status of power generation from the said energy sources, State/UT-wise;
- (b) the details of the households where bio gas plants are both operating as well as lying idle, particularly in the rural and backward areas of the country, State/UT-wise?
- (c) whether Government proposes to increase the number of bio gas plants installed in the country; and
- (d) if so, the details thereof?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a) The Government has formulated various Schemes/Programmes for exploring the potential of bioenergy which, *inter alia*, include the following:

(i) The Ministry of New and Renewable Energy has notified the National Bioenergy Programme (NBP) in November, 2022 with budgetary outlay of Rs. 1715 Crore for a period 01.04.2021 to 31.03.2026 to be implemented in two phases. The first phase has budget outlay of Rs. 858 Crore. This Programme supports setting up of Bioenergy plants by providing Central Financial Assistance (CFA).

(ii) The Ministry of Petroleum and Natural Gas has launched “Sustainable Alternative Towards Affordable Transportation (SATAT)” initiative on 1st October 2018, with the aim of establishing an ecosystem for production of Compressed Bio Gas (CBG) from various biomass/waste sources and for promoting its use along with Natural Gas.

(iii) Under the GOBARDHAN scheme implemented by Department of Drinking Water and Sanitation, Ministry of Jal Shakti, a financial assistance upto Rs. 50.00 lakh per district is available for setting up of model community biogas plants, and

(iv) Ministry of Power has notified SAMARTH Mission (National Mission on Use of Biomass in Thermal Power Plants) for promoting the blending of biomass in the existing coal powered thermal power plants.

The state-wise total installed capacity of Bio energy Projects for power generation is placed at **Annexure-I**.

(b) MNRE had carried out independent evaluation study to assess the functionality of small biogas plants installed during the year 2012-13 to 2016-17 in 10 States, which showed an overall functionality rate of 96.5%. Similarly, another independent evaluation study was carried out for small biogas plants installed during the year 2017-18 to 2019-20 in 13 States where 96% of the biogas plants were found to be functional. The State-wise details of operational and non-operational plants as per the above studies have been given in **Annexure-II**.

(c) & (d) MNRE is implementing the Biogas Programme under which an annual target for installation of small biogas plants in the States/ UTs has been set.

ANNEXURE-I

REFERRED TO IN REPLY TO THE RAJYA SABHA UNSTARRED QUESTION NO. 453, Part (a) TO BE ANSWERED ON 06.02.2024 ON “EXPLORATION OF BIO-ENERGY”.

S. No.	State	Total installed capacity (in MW) of Bio energy Projects for power generation
1.	Andhra Pradesh	557.27
2.	Bihar	125.00
3.	Chhattisgarh	274.89
4.	Delhi	84.00
5.	Goa	1.90
6.	Gujarat	97.60
7.	Haryana	259.86
8.	Karnataka	1897.10
9.	Madhya Pradesh	125.54
10.	Maharashtra	2615.90
11.	Punjab	511.05
12.	Rajasthan	124.25
13.	Tamil Nadu	1025.35
14.	Telangana	211.70
15.	Uttarakhand	132.12
16.	Uttar Pradesh	2206.06
17.	West Bengal	340.32
18.	Odisha	59.22
19.	Himachal Pradesh	9.20
20.	Kerala	2.27
21.	Meghalaya	13.80
22.	Jharkhand	14.10
23.	Assam	2.00
	Total	10690.50

ANNEXURE-II

REFERRED TO IN REPLY TO THE RAJYA SABHA UNSTARRED QUESTION NO. 453, Part (b) TO BE ANSWERED ON 06.02.2024 ON “EXPLORATION OF BIO-ENERGY”.

The details of State wise functionality of small biogas plants installed during the year 2012-13 to 2016-17 as per study report received in February, 2018						
Sl. No.	States	Total	Not Operating (N.O.)	Operating	% of N.O.	Operating (%)
1	Assam	1345	129	1216	9.6%	90.4%
2	Chhattisgarh	539	46	493	8.5%	91.5%
3	Gujarat	487	7	480	1.4%	98.6%
4	Kerala	577	2	575	0.3%	99.7%
5	Maharashtra	2747	4	2743	0.1%	99.9%
6	Odisha	657	31	626	4.7%	95.3%
7	Punjab	1405	1	1404	0.1%	99.9%
8	Rajasthan	132	1	131	0.8%	99.2%
9	Sikkim	32	8	24	25%	75%
10	Telangana	947	85	862	9%	91%
Grand Total		8868	314	8554	3.5%	96.5%

The details of State wise functionality of small biogas plants installed during the year 2017-18 to 2019-20 as per study report received in January, 2021						
Sl No.	States	Total	Not Operating (N.O.)	Operating	% of N.O.	Operating (%)
1	Assam	637	149	488	23%	77%
2	Bihar	15	1	14	7%	93%
3	Gujarat	201	8	193	4%	96%
4	Jharkhand	20	4	16	20%	80%
5	Karnataka	1377	30	1347	2%	98%
6	Madhya Pradesh	893	-	893	0%	100%
7	Maharashtra	2050	21	2029	1%	99%
8	Meghalaya	24	1	23	4%	96%
9	Mizoram	57	1	56	2%	98%
10	Rajasthan	90	-	90	0%	100%
11	Tamil Nadu	75	-	75	0%	100%
12	Uttar Pradesh	72	-	72	0%	100%
13	Uttarakhand	285	1	284	0.4%	99.6%
Grand Total		5796	216	5580	4%	96%
