

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 1619
TO BE ANSWERED ON 28.12.2017

GENERATION OF POWER FROM MUNICIPAL SOLID WASTE

1619. SHRIMATI KIRRON KHER:
SHRI VENKATESH BABU T.G.:

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

- (a): the percentage of the total power generated in the country from the Municipal Solid Waste (MSW);
- (b): the number of Waste-to-Energy Plants which are currently generating power from MSW;
- (c): whether the Government has set up new projects at some places in the country for generation of power from municipal solid wastes / garbage or assisted the State Governments for this proposal and if so, the details along with the estimated cost, generation capacity thereof, State-wise;
- (d): whether the Government proposes to set up more such plants to increase capacity of existing plants and if so, the details thereof and if not, the reasons therefor, State/UT-wise including Tamil Nadu;
- (e): whether the Government gives any incentives to promote waste generation from MSW by the private players and if so, the details thereof; and
- (f): whether the Government has also taken any steps to increase the capacity of production of power from biomass in the country and if so, the details thereof and if not, the reasons therefor, State-wise?

ANSWER

THE MINISTER OF STATE FOR POWER AND NEW & RENEWABLE ENERGY (I/C)
(SHRI R.K. SINGH)

- (a) & (b):** The present installed capacity of power generation from the Municipal Solid Waste (MSW) is 65.75 MW which is about 0.02% of total power generation capacity in the country. The state-wise details of six Municipal Solid Waste to Energy plants set up are given in **Annexure-I**.
- (c):** Under Swachh Bharat Mission (SBM) of the Ministry of Housing and Urban Affairs, 48 MSW based plants with cumulative installed capacity of 412.5 MW are under various stages construction. Details of these projects are given in **Annexure-II**.
- (d) & (e):** The Swachh Bharat Mission under the Ministry of Housing and Urban Affairs provides incentive up to 35% of project costs for Solid Waste Management projects including waste to energy plants. The projects under PPP mode are encouraged, to invite private capital in urban infrastructure as well as to bring in private sector efficiency in delivery of urban services and operation and maintenance.
- (f):** The Ministry has set a target of installing 10 GW power capacity from biomass by 2022. So far about 8.2 GW biomass power projects have already been set up in the country. State-wise details of Biomass Power / Cogeneration plants set up in the country as on 31.11.2017 are given in **Annexure-III**.

Annexure-I

Annexure-I referred to in reply to parts (a) & (b) of the Lok Sabha Unstarred Question No. 1619 for 28/12/2017 regarding "Generation of Power from Municipal Solid Wastes"

"State-wise details of Waste to Energy plants set up from Municipal Solid Waste (MSW), as on 15.12.2017"

S. No.	State / UTs	Plant Commissioned/Under trial	Installed Capacity (MW)
1.	Delhi	M/s Ramky Group at Narela-Bawana, New Delhi	24.0
2.	Delhi	M/s Jindal Urban Infrastructure Pvt Ltd. at Okhla, New Delhi	16.0
3.	Delhi	M/s IL&FS Environment Infrastructure and Services Ltd. at Ghazipur, New Delhi	12.0
4.	Madhya Pradesh	M/s Essel Infra at Jabalpur	9.0
5.	Maharashtra	M/s Solapur Bio-energy Systems Pvt. Ltd at Solapur	3.0
6.	Himachal Pradesh	M/s Elephant Energy Private Limited at Shimla	1.75

**Annexure-II referred to in reply to part (c) of the Lok Sabha Unstarred Question No. 1619 for
28/12/2017 regarding "Generation of Power from Municipal Solid Wastes"**

**"State/UT-wise details of Municipal Solid Waste (MSW) plants under construction supported
under "Swachh Bharat Mission(SBM)"**

S.No.	State	City	Total (MW)
1	Andhra Pradesh	Guntur	15
2	Andhra Pradesh	Tirupati	6
3	Andhra Pradesh	Vizinagaram	4
4	Andhra Pradesh	Tadapalligudam	5
5	Andhra Pradesh	Machalipatnam	4
6	Andhra Pradesh	Kadappa	5
7	Andhra Pradesh	Anantapur	4
8	Andhra Pradesh	Nellore	4
9	Andhra Pradesh	Karnul	1
10	Andhra Pradesh	Vishakapatnam	5
11	Bihar	Patna	10
12	Chhattisgarh	Durg-Bhilai	5
13	Chhattisgarh	Raipur	5
14	Goa	Pernem	5
15	Gujarat	Surat	13.5
16	Haryana	Karnal	3.5
17	Haryana	Sonepat	5
18	Haryana	Bandhmadi	10
19	Haryana	Faridabad	10
20	Himachal Pradesh	Shimla	1.7
21	J&K	Srinagar	6.5
22	Jharkhand	Ranchi	11
23	Jharkhand	Dhanbad	12
24	Karnataka	Bengaluru (7 plants)	20
25	Kerala	Kochi	10
26	MP	Bhopal	20
27	MP	Rewa	6
28	MP	Indore	20
29	MP	Gwalior	10
30	Maharashtra	Nagpur	11.5
31	Manipur	Imphal	2
32	New Delhi	Kidwai Nagar	1.6
33	Odisha	Bhubaneswar & Cuttack, Odisha	11.5
34	Punjab	Amritsar	11.5
35	Rajasthan	Jaipur	15
36	Rajasthan	Kota	7
37	Rajasthan	Jodhpur	3
38	Tamil Nadu	Pallavapuram&TambaramVenkatamangalam Project	4
39	Telangana	Cluster of 18 ULBs (M/ S Shalivahana MSWM Green Energy Ltd)	12
40	Telangana	Cluster of 16 ULBs (M/s Hemasri Power Projects Ltd.)	12.6
41	Telangana	Greater Hyderabad Municipal Corporation (RDF Power Projects Ltd.)	11
42	Telangana	Greater Hyderabad Municipal Corporation (SELCO)	6.6
43	UP	Kanpur	15
44	UP	Agra	10

S.No.	State	City	Total (MW)
45	UP	Rampur	8
46	UP	Meerut	10
47	Uttarakhand	Roorkee (Cluster of 18 ULBs)	11
48	Punjab	Amritsar Cluster (include Amritsar, Jandiala, Patti, Tarantaran, Raja Sansi, Majitha, Rayya, Khemkaran)	12
		Total	412.50

Annexure-III referred to in reply to part (f) of the Lok Sabha Unstarred Question No. 1619 for 28/12/2017 regarding "Generation of Power from Municipal Solid Wastes"

State-wise details of Biomass Power / Cogeneration plants set up in the country as on 30.11.2017

S. No.	States / UTs	Biomass Power / Cogeneration (Megawatt)
1	Andhra Pradesh	378.20
2	Bihar	113.00
3	Chhatisgarh	228.00
4	Gujarat	65.30
5	Haryana	96.40
6	Karnataka	1452.00
7	Madhya Pradesh	93.00
8	Maharashtra	2065.00
9	Odisha	50.40
10	Punjab	179.00
11	Rajasthan	119.30
12	Tamil Nadu	878.00
13	Telangana	158.10
14	Uttar Pradesh	1933.00
15	Uttarakhand	73.00
16	West Bengal	300.00
	Total	8181.70