

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 3159**  
TO BE ANSWERED ON 03.08.2017

**GENERATION OF POWER FROM WASTES**

3159. SHRI B.S. YEDIYURAPPA:

SHRI D.K. SURESH:

SHRI RAJESHBHAI CHUDASAMA:

SHRI S.P. MUDDAHANUME GOWDA:

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

- (a) the quantum of power generated from wastes in the country and its share in total power generation in the country;
- (b) whether the Union Government proposes to encourage states/UTs to undertake projects for production of power from waste materials;
- (c) if so, the details thereof along with the financial assistance/funds provided to the State/UTs during each of the last three years and the current year for the said purpose, State/UT-wise;
- (d) whether the waste-to-energy plants set up in the country are successful in dealing with the garbage problem and in generating requisite quantum of energy and if so, the details thereof;
- (e) whether the Union Government proposes to set up more such plants, especially in urban areas, where the problem of garbage is quite large and the demand of energy is high and if so, the details thereof and time-frame set for the same, State/UT-wise; and
- (f) whether the union Government has received a number of proposals from various States/UTs regarding setting up of such projects and financial aid for the purpose and if so, the details thereof and the response of the Union Government thereto, proposal-wise?

**ANSWER**

THE MINISTER OF STATE FOR POWER, COAL, NEW & RENEWABLE ENERGY AND MINES  
(INDEPENDENT CHARGE) (SHRI PIYUSH GOYAL)

**(a):** The Ministry of New and Renewable Energy (MNRE) supported about 259 MW grid connected / captive power plants using Urban, Industrial and Agricultural Wastes / Residues including Municipal Solid Waste (MSW). The present share of these Waste to Energy power generation projects is around 0.08% in the total installed power generation capacity in the country.

**(b) & (c):** MNRE is providing Central Financial Assistance (CFA) for setting up of Waste to Energy projects based on Urban, Industrial and Agricultural Wastes / Residues including MSW. In addition, the Ministry of Housing and Urban Affairs is implementing "Swachh Bharat Mission" (SBM) which also provides support for setting up of waste to energy plants up to 35% of the project cost in the form of Viability Gap Funding (VGF) / grant, subject to the overall state-wise funds envelop for SBM. The details of CFA provided by MNRE and the Ministry of Housing and Urban Affairs under SBM during the last three years and the current year, State/UTs wise are given at Annexure-I & II.

**(d) to (f):** Presently, five projects of 66.4 MW are operational and generating power from Municipal Solid Waste (MSW) and running successfully in Solapur, Maharashtra; Jabalpur, Madhya Pradesh; and New Delhi, which are able to process about 4516 Tons MSW per day. The State/UT-wise details of these operational plants with installed capacity and quantity of MSW utilized / processed are given at Annexure-III. Under SBM, 48 MSW based plants with cumulative installed capacity of 412.5 MW are under construction. Details of these projects are given at Annexure-IV.

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**Annexure-I referred to in reply to parts (b) & (c) of the Lok Sabha Unstarred Question No. 3159 for 03/08/2017 regarding “Generation of Power from Wastes”**

**“State/UTs wise details of Central Financial Assistance provided by the Ministry of New and Renewable Energy (MNRE) during the last three years and the current year”**

**(Rs in Crore)**

<b>SI</b>	<b>Name of State/UT</b>	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>
1	Andhra Pradesh and Telangana	-	2.89	2.14	-
2	Delhi	-	-	4.50	5.50
3	Gujarat	-	-	1.57	0.04
4	Karnataka	2.40	-	-	-
5	Maharashtra	2.90	-	1.41	-
6	Punjab	1.08	1.20	-	-
7	Uttar Pradesh	1.37	4.04	-	-
	<b>Total</b>	<b>7.75</b>	<b>8.13</b>	<b>9.62</b>	<b>5.54</b>

**Annexure-II**

**Annexure-II referred to in reply to parts (b) & (c) of the Lok Sabha Unstarred Question No. 3159 for 03/08/2017 regarding "Generation of Power from Wastes"**

**Funds released for solid waste management under SBM (Urban) by the Ministry of Housing and Urban Affairs.**

**(Rs in Crore)**

Sl. No.	States/Uts	2014-15	2015-16	2016-17	2017-18
1	A&N Islands		0.06		
2	Andhra Pradesh	21.02		185.97	
3	Arunachal Pradesh	6.84			
4	Assam				
5	Bihar	24.66		71.97	11.34
6	Chandigarh		0.98	1.49	
7	Chhattisgarh		8.79		48.99
8	Dadra & Nagar Haveli				
9	Daman & Diu				
10	Delhi	4.38	58.73		
11	Goa	1.70		2.08	2.15
12	Gujarat			187.90	80.21
13	Haryana	12.57		45.09	
14	Himachal Pradesh	3.00		6.10	
15	Jammu & Kashmir	10.90			
16	Jharkhand	9.33		37.36	18.67
17	Karnataka		39.14	18.12	
18	Kerala				
19	Madhya Pradesh		52.93		248.82
20	Maharashtra		42.43		15.13
21	Manipur	9.61			
22	Meghalaya	2.98			
23	Mizoram	8.21			
24	Nagaland	6.68			
25	Odisha			18.98	
26	Puducherry	1.00		1.12	
27	Punjab	23.00			
28	Rajasthan	33.65		181.95	128.66
29	Sikkim	2.52			
30	Tamil Nadu	13.13	83.39	108.49	
31	Telangana	15.22		50.08	25.72
32	Tripura				
33	Uttar Pradesh	37.56			
34	Uttarakhand	5.00			
35	West Bengal	34.54			53.44
<b>Total</b>		<b>287.50</b>	<b>286.46</b>	<b>916.70</b>	<b>633.14</b>

Annexure-III referred to in reply to parts (d) to (f) of the Lok Sabha Unstarred Question No. 3159 for 03/08/2017 regarding “Generation of Power from Wastes”

State/UT-wise details of Municipal Solid Waste (MSW) based operational plants with installed capacity and quantity of MSW utilized / processed

S. No.	Plant Commissioned/Under trial	Installed Capacity (MW)	Average quantity of MSW utilized / processed (Tons/day)
1.	M/s Ramky Group at Narela-Bawana, New Delhi	24.0	756
2.	M/s Jindal Urban Infrastructure Pvt Ltd. at Okhla ,New Delhi	16.0	1,818
3.	M/s IL&FS Environment Infrastructure and Services Ltd. at Ghazipur, New Delhi	12.0	502
4.	M/s Essel Infra at Jabalpur , Madhya Pradesh	11.4	1140
5.	M/s Solapur Bio-energy Systems Pvt. Ltd at Solapur , Maharastra	3.0	300
	<b>Total</b>	<b>66.4</b>	<b>4516</b>

## Annexure-IV

**Annexure-IV referred to in reply to parts (d) to (f) of the Lok Sabha Unstarred Question No. 3159 for 03/08/2017 regarding “Generation of Power from 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 & Tambaram Venkatamangalam 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
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
		<b>Total</b>	<b>412.50</b>

