

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 2979**  
TO BE ANSWERED ON 04.01.2018

**SOLAR PV MODULES AND WIND STREAM TECHNOLOGIES**

2979. SHRI BHARATHI MOHAN R.K.:  
SHRI K.N. RAMACHANDRAN:  
SHRIMATI V. SATHYA BAMA:

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

- (a): whether the Government has conducted any studies to find out the impact of efficient and cost effective Solar PV modules and wind stream technologies in generation of renewable energy in the country;
- (b): if so, the details thereof and the details of studies conducted and projects implemented annually during the last three years, year and State-wise;
- (c): the detailed list of Renewable Energy projects proposed and executed in installations/buildings of both Centre and State Governments, Private Institutes during the said period;
- (d): whether the Government has any plans to approve such new renewable energy projects to make them mandatory for Government/private sectors; and
- (e): if so, details thereof?

**ANSWER**

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

**(a) to (c):** Government have prescribed quality standards for solar modules being utilized in production of solar power and for wind equipment. State-wise details of Renewable Energy capacity commissioned, source wise, year wise during each of the last three years are given in **Annexure.**

**(d) & (e):** The Government has set up a target of installing Renewable Energy capacity of 175 GW by 2022 with 100 GW of Solar, 60 GW of Wind, 10 GW of Bio Mass and 5 GW of Small Hydro Projects. Government have also laid down the bidding trajectory of 80 GW of solar and 29 GW of wind till March, 2020 so as to achieve the target. The Renewable Energy projects are taken up both in the Central and the State sector. The Government has also laid down Renewable Purchase Obligation on distribution companies wherein all States have been obligated to purchase solar and non-solar power.

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**Annexure**

**Source-wise, year-wise and state-wise achievements made during the last three years and current year**

**(as on 31.03.2017)**

S.No.	State/UT	Waste To Energy				Bio-Power				Solar Power				Small Hydro Power				Wind Power			
		2014-15	2015-16	2016-17	Total	2014-15	2015-16	2016-17	Total	2014-15	2015-16	2016-17	Total	2014-15	2015-16	2016-17	Total	2014-15	2015-16	2016-17	Total
1	Andhra Pradesh			7.5	7.5				0	126.77	435.11	1294.26	1856.14			9	9	285.2	400.1	2187.45	2872.75
2	Arunanchal Pradesh				0				0	0	0.24		0.24	0.7			0.7				0
3	Assam				0				0			11.78	11.78				0				0
4	Bihar				0		11	9	20		5.1	103.42	108.52				0				0
5	Chhattisgarh				0		10		10	0.5	85.98	35.28	121.76			24	24				0
6	Goa				0				0			0.71	0.71				0				0
7	Gujarat				0	9.9			9.9	83.65	119.12	130.19	332.96	1			1	190.73	392.4	1392	1975.13
8	Haryana				0	9.5			9.5	2.5	2.59	66.01	71.1	1.4	2		3.4				0
9	Himachal Pradesh				0				0		0.2	0.53	0.73	85.01	69.9	38	192.91				0
10	Jammu & Kashmir				0				0		1	0.36	1.36	9		1.5	10.5				0
11	Jharkhand				0				0	0	0.19	7.08	7.27				0				0
12	Karnataka				0	32.85	56	50	138.85	46.22	68.24	882.38	996.84	98	88	8	194	320.1	230.9	882.3	1433.3
13	Kerala				0				0	0	13.02	61.15	74.17	10.5	30	14.1	54.6	0	8.4	8	16.4
14	Madhya Pradesh				0	0	25		25	205	217.79	80.67	503.46		0		0	456.3	1261.4	356.7	2074.4
15	Maharashtra				0	210.8	134	98	442.8	82.23	25.01	66.61	173.85	8	4.45	6.3	18.75	350.45	207.85	117.55	675.85
16	Manipur				0				0			0.03	0.03				0				0
17	Meghalaya				0				0			0.01	0.01				0				0
18	Mizoram				0				0		0.1	0	0.1			5	5				0
19	Nagaland				0				0			0.5	0.5		1		1				0
20	Orissa				0				0	2.26	35.16	12.5	49.92				0				0
21	Punjab				0				0	168.75	219.79	388.89	777.43	1.2	13.5		14.7				0
22	Rajasthan				0			4.95	4.95	228.85	327.83	543	1099.68				0	523.5	685.5	287.7	1496.7

23	Sikkim				0				0			0	0				0				0
24	Tamil Nadu				0	19			19	54.12	919.24	630.01	1603.37				0	185.5	158.8	247.57	591.87
25	Telangana				0				0	61.25	360.8	759.13	1181.18	2.2	9.75		11.95		77.7	23.10	100.8
26	Tripura				0				0	5		0.09	5.09				0				0
27	Uttar Pradesh				0	13.5	60.85		74.35	42.16	72.24	193.24	307.64				0				0
28	Uttarakhand				0	0.12			0.12		36.15	192.35	228.5	34.5			34.5				0
29	West Bengal				0		8		8		0.56	18.37	18.93	0.1			0.1				0
30	Andaman & Nicobar				0				0			1.46	1.46				0				0
31	Chandigarh				0				0	2.5	2.31	10.52	15.33				0				0
32	Dadar & Nagar Haveli				0				0			2.97	2.97				0				0
33	Daman & Diu				0				0		4	6.46	10.46				0				0
34	Delhi			16	16				0	0.32	8.82	25.99	35.13				0				0
35	Lakshwadeep				0				0			0	0				0				0
36	Pondicherry				0				0			0.05	0.05				0				0
37	Others				0				0		58.31	0	58.31				0				0
	<b>Total</b>			<b>23.5</b>	<b>23.5</b>	<b>295.67</b>	<b>304.85</b>	<b>161.95</b>	<b>762.47</b>	<b>1112.08</b>	<b>3018.9</b>	<b>5526</b>	<b>9656.98</b>	<b>251.61</b>	<b>218.6</b>	<b>105.9</b>	<b>576.11</b>	<b>2311.78</b>	<b>3423.05</b>	<b>5502.37</b>	<b>11237.2</b>

MW = Mega Watt