

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**

**UNSTARRED QUESTION NO. 3885**

TO BE ANSWERED ON 08.12.2016

**CAPACITY OF WIND ENERGY PLANTS**

3885. SHRI PANKAJ CHAUDHARY,  
SHRI ARVIND SAWANT,  
SHRI RAHUL KASWAN,  
SHRI YOGI ADITYA NATH

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

- (a) the installed capacity of solar and wind energy plants in the country and their actual capacity, State/UT-wise;
- (b) the details of participation of private companies in solar and wind energy production and quantum of energy produced by them during the last three years and the current year, State/UT-wise;
- (c) the amount allocated, released and utilised to promote solar and wind energy in the country during the said period, year and State/UT-wise;
- (d) whether the Government has identified the potential places for the generation of solar and wind energy and if so, the details thereof, State/UT-wise; and
- (e) the details of the agencies functioning in solar and wind energy sector in tribal sub-plan areas of the country especially in Maharashtra, State/UT-wise?

ANSWER

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

**(a):** As on 31.10.2016, the total installed capacity in the country from solar power was 8727.64 MW and from wind power was 28279.40 MW. The State/UT-wise details is given at Annexure-I.

**(b):** The renewable energy sector in the country is mainly driven by private sector. The Central Electricity Authority (CEA) has started compiling the renewable energy generation data from 2014-15 onwards.

The State/UT-wise quantum of energy produced from wind and solar energy projects during 2014-15, 2015-16 and the current year (till 30.09.2016) is given at Annexure-II.

(c): The State/UT-wise budgetary allocation is not made under various schemes/programmes for solar and wind energy. However, details of amount released by the Ministry of New & Renewable Energy (MNRE) for installation of solar and wind energy projects in different States/UTs during the last three years and the current year (till 31.10.2016) are given below:-

<b>Year</b>	<b>Total funds released for solar energy projects (Rs. in Crore)</b>	<b>Total funds released for solar energy projects (Rs. in Crore)</b>
2013-14	692.28	306.00
2014-15	1158.19	568.00
2015-16	3146.24	316.94
2016-17 (till 31.10.2016)	1667.99	366.47

(d): The potential of wind and solar in the country has been estimated to be 302251 MW and 784990 MW respectively. The State/UT-wise details is given at Annexure-III.

(e): The State Nodal Agencies (SNAs) are the Government agencies functioning for promotion of wind and solar energy in the respective States including the tribal areas of the State.

The Maharashtra Energy Development Agency (MEDA) is the SNA functioning for promotion of wind and solar energy in entire Maharashtra including the tribal areas of the State.

List of major SNAs functioning as Government agencies for promotion of wind and solar energy in the respective State are given in Annexure-IV.

\*\*\*\*\*

**Annexure-I****Statement referred to in reply to part (a) of Lok Sabha Unstarred Question  
No. 3885 for 08/12/2016 regarding 'Capacity of Wind Energy Plants'****State-wise wind and solar installed capacity (as on 31.10.2016)**

<b>S. No.</b>	<b>STATES / UTs</b>	<b>Wind</b>	<b>Solar</b>
1.	Andhra Pradesh	2001.75	968.05
2.	Arunachal Pradesh		0.27
3.	Assam		10.00
4.	Bihar		95.10
5.	Chhattisgarh		128.56
6.	Gujarat	4269.86	1138.19
7.	Haryana		17.39
8.	Himachal Pradesh		0.20
9.	Jammu & Kashmir		1.00
10.	Jharkhand		16.84
11.	Karnataka	3099.45	340.08
12.	Kerala	43.50	13.05
13.	Madhya Pradesh	2288.60	811.38
14.	Maharashtra	4664.08	386.06
15.	Mizoram		0.10
16.	Odisha		66.92
17.	Punjab		571.2
18.	Rajasthan	4123.35	1301.16
19.	Tamil Nadu	7685.81	1555.41
20.	Telangana	98.70	963.79
21.	Tripura		5.00
22.	Uttar Pradesh		143.50
23.	Uttarakhand		41.15
24.	West Bengal		11.77
25.	Andaman & Nicobar		5.10
26.	Chandigarh		6.81
27.	Daman & Diu		4
28.	Delhi		23.87
29.	Lakshadweep		0.75
30.	Puducherry		0.03
31.	Others	4.30	100.92
	<b>Total</b>	<b>28279.40</b>	<b>8727.64</b>

## Annexure-II

### Statement referred to in reply to part (b) of Lok Sabha Unstarred Question No. 3885 for 08/12/2016 regarding 'Capacity of Wind Energy Plants'

#### State/UT-wise quantum of energy produced from wind and solar energy projects during 2014-15, 2015-16 and the current year (till 30.09.2016)

( All figures in MU )

Sl. No.	State	2014-15		2015-16		2016-17 (till 30.09.2016)	
		Wind	Solar	Wind	Solar	Wind	Solar
1	Chandigarh	0.00	2.23	0.00	3.40	0.00	2.11
2	Delhi	0.00	3.18	0.00	4.11	0.00	1.52
3	Haryana	0.00	10.36	0.00	114.96	0.00	34.17
4	J & K	0.00	0.00	0.00	0.00	0.00	0.39
5	Punjab	0.00	129.89	0.00	380.57	0.00	411.34
6	Rajasthan	4053.85	1259.19	4583.59	1766.10	3801.39	1084.86
7	Uttar Pradesh	0.00	20.13	0.00	89.75	0.00	72.24
8	Uttarakhand	0.00	11.63	0.00	5.87	0.00	14.92
9	Chhattisgarh	0.00	13.54	0.00	52.70	9.97	44.93
10	Gujarat	5660.09	1474.56	6446.58	1497.60	5098.45	814.57
11	Madhya Pradesh	592.25	562.29	1558.43	1105.28	2456.14	606.10
12	Maharashtra	6804.80	349.32	6121.34	638.76	5858.51	258.68
13	Dadra & Nagar Haveli	0.00	0.03	0.00	0.50	0.00	0.72
14	Daman & Diu	0.00	0.15	0.00	4.25	0.00	4.86
15	Andhra Pradesh	1675.82	159.77	2013.04	282.67	2035.23	626.79
16	Telangana	0.00	138.12	0.00	402.51	120.31	458.76
17	Karnataka	4658.10	100.39	4797.95	187.69	4083.41	142.52
18	Kerala	58.40		51.45	7.38	51.71	12.08
19	Tamil Nadu	10147.06	158.75	7273.23	507.18	7955.47	785.29
20	Lakshadweep	0.00	5.13	0.00	1.02	0.00	0.41
21	Andaman & Nicobar	0.00	0.00	0.00	6.26	0.00	3.30
22	Bihar	0.00	0.00	0.00	6.39	0.00	17.42
23	Jharkhand	0.00	8.32	0.00	19.77	0.00	20.42
24	Odisha	0.00	44.94	0.00	150.73	0.00	92.28
25	West Bengal	0.16	7.07	0.00	6.28	0.00	4.83
26	Arunachal Pradesh	0.00	0.00	0.00	0.22	0.00	0.08
27	Assam	0.00	9.65	0.00	31.60	0.00	66.64
28	Others	117.78	130.37	183.77	174.39	139.30	209.33
	<b>Total</b>	<b>33768.30</b>	<b>4599.02</b>	<b>33029.39</b>	<b>7447.92</b>	<b>31609.89</b>	<b>5791.54</b>

Source: CEA

- 1) All figures are tentative.
- 2) Data as received from SLDC of the respective states or from the electricity department.
- 3) Generation details for J&K of the month of September 2016 is provisionally taken as monthly average of the previous five months i.e, April 2016-August 2016

**Statement referred to in reply to part (d) of Lok Sabha Unstarred Question  
No. 3885 for 08/12/2016 regarding 'Capacity of Wind Energy Plants'**

**State/UT-wise wind and solar power potential**

<b>S. No.</b>	<b>STATES / UTs</b>	<b>Estimated Wind Power Potential (MW)</b>	<b>Estimated Solar Power Potential (MW)</b>
1	Andhra Pradesh	44229	38440
2	Arunachal Pradesh		8650
3	Assam		13760
4	Bihar		11200
5	Chhatisgarh	77	18270
6	Delhi		2050
7	Goa	1	880
8	Gujarat	84431	35770
9	Haryana		4560
10	Himachal Pradesh		33840
11	Jammu & Kashmir		111050
12	Jharkhand		18180
13	Karnataka	55857	24700
14	Kerala	1700	6110
15	Madhya Pradesh	10484	61660
16	Maharashtra	45394	64320
17	Manipur		10630
18	Meghalaya		5860
19	Mizoram		9090
20	Nagaland		7290
21	Odisha	3093	25780
22	Punjab		2810
23	Rajasthan	18770	142310
24	Sikkim		4940
25	Tamil Nadu	33800	17670
26	Telangana	4244	20410
27	Tripura		2080
28	Uttar Pradesh		22830
29	Uttarakhand		16800
30	West Bengal	2	6260
31	UTs	169	790
	<b>Total (MW)</b>	<b>302251</b>	<b>748990</b>

**Annexure-IV****Statement referred to in reply to part (e) of Lok Sabha Unstarred Question  
No. 3885 for 08/12/2016 regarding 'Capacity of Wind Energy Plants'****List of major State Nodal Agencies working in the area of renewable energy  
including Solar and Wind Energy Sector**

<b>S. No.</b>	<b>State/UT</b>	<b>Name of SNA</b>
1.	Andhra Pradesh	New & Renewable Energy Development Corporation of Andhra Pradesh Ltd.
2.	Arunachal Pradesh	Arunachal Pradesh Energy Development Agency
3.	Assam	(i) Assam Energy Development Agency (ii) Assam Power Distribution Corporation limited
4.	Bihar	Bihar Renewable Energy Development Agency
5.	Chhattisgarh	Chhattisgarh State Renewable Energy Development Agency
6.	Delhi	Energy Efficiency & Renewable Energy Management Centre
7.	Goa	Goa Energy Development Agency
8.	Gujarat	Gujarat Energy Development Agency
9.	Haryana	Haryana Renewal Energy Development Agency
10.	Himachal Pradesh	HIMURJA
11.	Jammu and Kashmir	(i) Jammu & Kashmir Energy Development Agency (ii) Ladakh Renewable Energy Development Agency (iii) Kargil Renewable Energy Development Agency
12.	Jharkhand	Jharkhand Renewable Energy Development Agency
13.	Karnataka	Karnataka Renewable Energy Development Agency Ltd.
14.	Kerala	Agency for Non-Conventional Energy and Rural Technology
15.	Madhya Pradesh	MP Urja Vikas Nigam Ltd.
16.	Maharashtra	Maharashtra Energy Development Agency
17.	Manipur	Manipur Renewable Energy Development Agency
18.	Meghalaya	Meghalaya Non-conventional & Rural Energy Development Agency
19.	Mizoram	Zoram Energy Development Agency
20.	Nagaland	Nagaland Renewable Energy Development Agency
21.	Odisha	(i) Odisha Renewable Energy Development Agency (ii) Green Energy Development Corporation Of Odisha Ltd.
22.	Punjab	Punjab Energy Development Agency
23.	Rajasthan	Rajasthan Renewable Energy Corporation Limited
24.	Sikkim	Sikkim Renewable Energy Development Agency
25.	Tamil Nadu	(i) Tamil Nadu Energy Development Agency (ii) Tamil Nadu Generation and Distribution Company Limited
26.	Telangana	Telangana New & Renewable Energy Development Corporation Ltd.
27.	Tripura	Tripura Renewable Energy Development Agency

28.	Uttar Pradesh	Non-conventional Energy Development Agency of Uttar Pradesh
29.	Uttarakhand	Uttarakhand Renewable Energy Development Agency
30.	West Bengal	West Bengal Renewable Energy Development Agency
31.	Andaman & Nicobar Islands	Electricity Department, A&N Island
32.	Chandigarh	Chandigarh Renewal Energy and Science & Technology Promotion Society
33.	Dadra & Nagar Haveli	Dadra Nagar Haveli Power Distribution Corporation Limited
34.	Daman & Diu	Electricity Department, D&D
35.	Lakshadweep	Electricity Department, Lakshadweep
36.	Puducherry	Renewable Energy Agency of Puducherry