

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 4247**  
TO BE ANSWERED ON 19.03.2020

**RENEWABLE ENERGY DEVELOPMENT**

4247. DR. SUBHAS SARKAR

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

- (a) the present status of renewable energy development;
- (b) the quantum of funds allocated to various States during the last three years for development of New and Renewable Energy specially for solar power generation;
- (c) the details of development of energy storage and smart grid;
- (d) the quantum of funds utilized by the States during the last three years; and
- (e) the capacity created for generation of solar power during the last three years, State-wise?

**ANSWER**

THE MINISTER OF STATE (I/C) FOR NEW & RENEWABLE ENERGY, POWER and MoS for  
SKILL DEVELOPMENT AND ENTREPRENEURSHIP

(SHRI R.K. SINGH)

(a) The Government has set a target of installing 175 GW renewable energy capacity excluding large hydro in the country by December 2022. As against this target, as on 29<sup>th</sup> February 2020, a cumulative renewable energy capacity of 86.75 GW has been installed in the country with an additional capacity of 33.72 GW under various stages of implementation and 34.07 GW under various stages of bidding. Besides, as on same date 45.69 GW of large hydro capacity also stand established with 12.97 GW under implementation.

(b) to (d) Most of the grid connected renewable energy projects in the country are being implemented by the private sector developers selected through transparent competitive bidding process. However, the Ministry of New and Renewable Energy(MNRE) has been providing assistance in the form of Central Financial Assistance (CFA) to the designated Agencies/State Government nodal agencies for the implementation of various renewable energy schemes/programmes in the country as per scheme guidelines.

The state/UT wise details of funds released and utilized in the form of Central Financial Assistance (CFA) for implementation of various renewable energy programmes/schemes during the last three years i.e. from 2016-17 to 2018-19 are given in **Annexure-I**.

In March 2019, the Government approved the National Mission on Transformative Mobility and Battery Storage which, inter-alia, aims to enhance the demand for storage.

The Ministry of New and renewable Energy is trying to create demand for storage by bringing tenders linked with storage through Solar Energy Corporation of India and NTPC.

In the year 2015, the Government launched National Smart Grid Mission (NSGM) to plan and monitor implementation of various policies and programs related to Smart Grid activities in India. Under NSGM, five projects have been sanctioned. Of these, three projects are in the States of Jharkhand, Odisha and Rajasthan and two projects in Union Territory of Chandigarh. These projects are primarily aimed at deployment of Advanced Metering Infrastructure/Smart Metering.

(e) The details of state-wise solar capacity created for generation of solar power during the last three years are given in the **Annexure-II**.

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**Annexure-I**

**Annexure-I referred to in reply to part (d) of Lok Sabha Un-starred Question No.4247 for 19/03/2020 regarding 'Renewable Energy Development'.**

State/UT wise and year-wise details of Funds released as Central Financial Assistance during last three years i.e. 2016-17 to 2018-19

**(Rs in crore)**

S. No.	State / UT Name	2016-17	2017-18	2018-19
1	ANDHRA PRADESH	1.92	4.96	132.86
2	ARUNACHAL PRADESH	20.08	45.16	5.94
3	ASSAM	60.28	24.86	0.20
4	BIHAR	0	0	5.26
5	CHANDIGARH	9.69	2.23	18.76
6	CHHATTISGARH	72.92	161.96	95.81
7	DADRA & NAGAR HAVELI	0	0.34	0
8	DAMAN & DIU	0	0	0
9	DELHI	166.04	311.45	228.25
10	GOA	0.17	0	0
11	GUJARAT	74.09	158.89	361.08
12	HARYANA	16.24	2.16	22.39
13	HIMACHAL PRADESH	36.39	42.30	84.13
14	JAMMU AND KASHMIR	49.67	16.12	85.84
15	JHARKHAND	12.87	5.58	0.99
16	KARNATAKA	52.42	39.54	100.93
17	KERALA	36.17	44.02	20.73
18	LAKSHADWEEP	0.46	3.97	0
19	MADHYA PRADESH	40.16	442.13	105.01
20	MAHARASHTRA	155.21	43.12	147.38
21	MANIPUR	12.53	6.65	0
22	MEGHALAYA	20.52	23.28	2.08
23	MIZORAM	22.38	21.47	7.89
24	NAGALAND	17.97	11.49	2.39
25	ODISHA	21.17	13.55	9.11
26	PUDUCHERRY	1.11	0.31	0.10
27	PUNJAB	9.19	3.42	30.04
28	RAJASTHAN	86.85	103.14	64.52
29	SIKKIM	2.87	0.18	2.74
30	TAMIL NADU	169.28	30.50	54.94
31	TELANGANA	99.19	174.62	98.96
32	TRIPURA	14.57	2.73	0.22
33	UTTAR PRADESH	28.11	36.41	37.85
34	UTTARAKHAND	41.92	43.89	0.45
35	WEST BENGAL	1.37	6.58	4.29
36	ANDAMAN AND NICOBAR	0.48	3.03	0
37	CENTRAL AGENCY (including IREDA, SECI, NISE, NIWE, NIBE, NTPC, etc.)	1190.92	1874.44	2683.63

**Annexure-II referred to in reply to part (e) of Lok Sabha Un-starred Question No.4247 for  
19/03/2020 regarding 'Renewable Energy Development'  
Source-wise and State-wise achievements of Solar Power made during the last three years (April  
2016 to Feb 2020)**

**(in MW)**

S. No.	State/UT	2016-17	2017-18	2018-19	Total Solar Power
1	Andhra Pradesh	1294.26	328.24	890.22	2512.72
2	Arunachal Pradesh		5.13	0	5.13
3	Assam	11.78	0.67	9.95	22.4
4	Bihar	103.42	33.93	0	137.35
5	Chhattisgarh	35.28	102.49	0	137.77
6	Goa	0.71	0.2	3.01	3.92
7	Gujarat	130.19	328.89	852.13	1311.21
8	Haryana	66.01	123.45	7.67	197.13
9	Himachal Pradesh	0.53	0	21.95	22.48
10	Jammu & Kashmir	0.36	0	13.47	13.83
11	Jharkhand	7.08	2.39	9.28	18.75
12	Karnataka	882.38	3915.22	1151.44	5949.04
13	Kerala	61.15	33.46	30.65	125.26
14	Madhya Pradesh	80.67	448.31	534.81	1063.79
15	Maharashtra	66.61	777.56	394.36	1238.53
16	Manipur	0.03	0.03	3.38	3.44
17	Meghalaya	0.01	0.01	0.1	0.12
18	Mizoram	0	0.1	0.3	0.4
19	Nagaland	0.5	0.5	0	1
20	Orissa	12.5	0.15	315.16	327.81
21	Punjab	388.89	104.15	0	493.04
22	Rajasthan	543	518.49	894.02	1955.51
23	Sikkim	0	0	0.01	0.01
24	Tamil Nadu	630.01	213.65	666.65	1510.31
25	Telangana	759.13	2004.27	300.84	3064.24
26	Tripura	0.09	0	0	0.09
27	Uttar Pradesh	193.24	357.13	265.69	816.06
28	Uttarakhand	192.35	24.79	46.67	263.81
29	West Bengal	18.37	11.06	38.63	68.06
30	Andaman & Nicobar	1.46	0	5.17	6.63
31	Chandigarh	10.52	7.88	9.51	27.91
32	Dadar & Nagar Haveli	2.97	2.49	0	5.46
33	Daman & Diu	6.46	0.15	3.86	10.47
34	Delhi	25.99	17.8	57.32	101.11
35	Pondicherry	0.05	0.08	2.98	3.11
	Total	5526	9362.67	6529.23	21417.9