

1	2	3	4
22	Manipur	3.38	3.44
23	Meghalaya	0.10	0.12
24	Mizoram	0.30	0.50
25	Nagaland	0.00	1.00
26	Odisha	315.16	394.73
27	Puducherry	2.98	3.14
28	Punjab	0.00	905.62
29	Rajasthan	894.02	3226.79
30	Sikkim	0.01	0.01
31	Tamil Nadu	666.65	2575.22
32	Telangana	300.84	3592.09
33	Tripura	0.00	5.09
34	Uttar Pradesh	265.69	960.10
35	Uttarakhand	46.67	306.75
36	West Bengal	38.63	75.95
	TOTAL	6529.20	28180.66

### Solar energy generation in the country

2693. DR. PRABHAKAR KORE: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether it is a fact that switching over to new and renewable energy becomes imperative to cut oil import dependence;

(b) whether the solar energy generation in the country is much less than that of the expected target;

(c) if so, the total solar energy generated during the last three years, State-wise; and

(d) the steps initiated by Government to increase the generation of solar energy in the country and the time-frame for achieving the target, the details thereof?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI RAJ KUMAR SINGH): (a) and (b) Yes, Sir. Deployment of Solar Energy definitely reduces dependence on oil imports. The Government has set a target of installing 100 GW of Solar capacity by Dec. 2022. As on 29.02.2020, a cumulative grid connected solar power capacity of 35.07 GW had been installed in the country. In addition, as on that date, an additional capacity 21.35 GW was at various stages of implementation and 31.27 GW at various stages of tendering. This apart, tenders for installing 20 GW have been planned till June, 2021 so as to achieve the target of 100 GW.

(c) As reported by the Central Electricity Authority, state-wise details of solar power generated during last three years are given in Statement (*See below*).

(d) The Government has taken various steps to increase solar energy generation in the country. These, inter-alia, include the following:

- (i) Announcement of a target of installing 100 GW of solar energy capacity by December, 2022.
- (ii) Waiver of Inter State Transmission System (ISTS) charges and losses for inter-state sale of solar and wind power for projects to be commissioned up to December, 2022.
- (iii) Permitting Foreign Direct Investment (FDI) up to 100 percent under the automatic route.
- (iv) Notification of standard bidding guidelines to enable distribution licensee to procure solar and wind power at competitive rates in cost effective and transparent manner.
- (v) Declaration of trajectory for Renewable Purchase Obligation (RPO) up to year 2022.
- (vi) Implementation of Green Energy Corridor project to facilitate grid interaction of large scale renewable energy capacity addition.
- (vii) Notification of quality standards for deployment of solar photovoltaic system/ devices.
- (viii) Launch of new schemes like Pradhan Mantri Kisan Urja Suraksha Evam Utthan Mahabhiyan (PM-KUSUM), 12000 MW CPSU Scheme (Phase II) and Solar Rooftop (Phase II) program.

**Statement***Details of solar power generation during each of the last three years*

Sl. No.	State/Utility	2016-17 (in MU)	2017-18 (in MU)	2018-19 (in MU)
1	2	3	4	5
1	Chandigarh	13.16	7.87	13.51
2	Delhi	5.68	13.41	10.84
3	Haryana	19.70	64.65	65.95
4	HP	0.00	0.00	0.00
5	Jammu and Kashmir	0.77	0.00	0.00
6	Punjab	909.20	1432.07	1492.90
7	Rajasthan	2131.61	3469.25	4633.95
8	Uttar Pradesh	230.95	637.02	1192.85
9	Uttarakhand	37.77	291.08	318.29
10	NTPC	74.90	480.99	498.99
	Dadri/FBD/Unchahar/Singrauli/Bhadla			
11	Oil India Ltd (Rajasthan)	25.59	25.46	25.18
12	Chhattisgarh	120.91	136.54	335.14
13	NTPC Rajgarh/Raojmal/Mandsaur	82.21	340.13	478.88
14	Gujarat	1738.28	2048.40	2410.32
15	Madhya Pradesh	1366.10	1911.70	2503.41
16	Maharashtra	577.83	1100.67	2206.62
17	Dadra and Nagar Haveli	1.31	5.23	5.76
18	Daman and Diu	14.43	18.53	18.94
19	Oil India Ltd (Madhya Pradesh & Gujrat)	0.00	0.00	0.00
20	Andhra Pradesh	1599.78	3658.97	4545.80
21	Telangana	1337.90	4013.80	6297.53

1	2	3	4	5
22	Karnataka	524.67	2391.73	7575.83
23	Kerala	26.52	55.35	110.84
24	NTPC Ramagundam/Anantapuram	350.53	426.37	434.89
25	Tamil Nadu	1898.34	2906.01	3554.50
26	Lakshadweep	1.59	1.79	1.12
27	Puducherry	0.34	1.17	2.58
28	Andaman and Nicobar	6.17	6.88	8.04
29	Bihar	109.18	145.34	179.89
30	Jharkhand	38.47	19.47	19.14
31	Odisha	210.81	204.77	249.13
32	Sikkim	0.00	0.00	0.00
33	West Bengal	14.96	20.47	40.61
34	DVC	0.01	0.06	0.06
35	NTPC Andaman/ Talcher	20.00	20.43	19.71
36	Arunachal Pradesh	0.14	0.23	1.21
37	Assam	2.69	8.36	6.66
38	Manipur	0.01	0.15	1.88
39	Meghalaya	0.00	0.00	0.00
40	Mizoram	0.00	0.00	0.12
41	Nagaland	0.00	0.00	0.00
42	Tripura	0.00	0.00	0.00
43	NEEPCO	6.89	6.71	7.14
TOTAL		13499.41	25871.07	39268.20

**Green Window Programme for catalysing green energy**

2694. SHRI RAJMANI PATEL: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state: