

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO-2288**  
TO BE ANSWERED ON-08.03.2018  
**SETTING UP OF SOLAR ENERGY PLANTS**

2288. SHRI B.V. NAIK  
SHRI S.P. MUDDAHANUME GOWDA

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

- (a) the details of solar energy plants set up or being set up along with their installed capacity during the last three years and the current year in the country, State/UT-wise;
- (b) the details of funds sanctioned/released and spent for the purpose during the above period, scheme-wise and State/UT-wise;
- (c) whether the Government proposes to grant certain incentives to the private sector which have shown interest in this regard;
- (d) if so, the details thereof and if not, the reasons therefor; and
- (e) the steps taken by the Government to popularize the utilization of solar energy in the country?

**ANSWER**

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

- (a) The State/UT-wise details of grid connected Solar Power installed capacity during last three years and the current year are given in Annexure-I.
- (b) Amount released by the Ministry for generation and creation of additional capacity of solar power in the country during last three years and current year are given below:-

Year	Total funds released (Rs. Crore)
2014-15	1158.19
2015-16	3146.24
2016-17	2590.59
2017-18 (as on 31.01.2018)	1577.88

While the Ministry does not make budgetary allocations state-wise, details of funds sanctioned for release and spending under some of the Solar Programmes during the last three years and the current year are given in Annexure-II.

(c) and (d) Most of the investments in Solar Power plant installation is made by the private sector. Government is promoting development of solar energy in the country by providing various fiscal and promotional incentives such as capital subsidy, accelerated depreciation, waiver of Inter State Transmission System (ISTS) charges and losses, viability gap funding (VGF), financing solar rooftop systems as part of home loan, preferential tariff for power generation through renewables, and permitting Foreign Direct Investment up to 100 per cent under the automatic route.

(e) In order to popularize the utilization of solar energy in the country, the Government is providing various fiscal and promotional incentives as indicated in reply to part (c) and (d) above. This apart, the Ministry undertakes publicity & promotional activities through print, electronic and social media. The Ministry has also launched a Mobile App for solar rooftop systems.

## ANNEXURE-I REFERRED TO IN REPLY TO PART (a) OF LOK SABHA UNSTARRED QUESTION NO. 2288 FOR 08.03.2018

State/UT-wise details of solar power capacity installed during the last three years and current year					
Sr. No.	State/UT	Installed Capacity during 2014-15 (MW)	Installed Capacity during 2015-16 (MW)	Installed Capacity during 2016-17 (MW)	Installed Capacity during 2017-18 (upto 31.01.2018) (MW)
1	Andaman & Nicobar	0.00	0.00	1.46	6.51
2	Andhra Pradesh	126.77	435.11	1294.26	303.10
3	Arunachal Pradesh	0.00	0.24	0.00	4.12
4	Assam	0.00	0.00	11.78	0.67
5	Bihar	0.00	5.10	103.42	33.93
6	Chandigarh	2.50	2.31	10.52	7.87
7	Chhattisgarh	0.50	85.98	35.28	56.17
8	Dadar & Nagar	0.00	0.00	2.97	2.49
9	Daman & Diu	0.00	4.00	6.46	0.15
10	Delhi	0.32	20.31	25.99	17.75
11	Goa	0.00	0.00	0.71	0.20
12	Gujarat	83.65	128.87	130.19	326.74
13	Haryana	2.50	14.59	66.01	122.45
14	Himachal Pradesh	0.00	0.20	0.53	1.50
15	J&K	0.00	1.00	0.36	1.00
16	Jharkhand	0.00	0.19	7.08	2.33
17	Karnataka	46.22	69.31	882.38	1759.72
18	Kerala	0.00	13.31	61.15	33.45
19	Lakshadweep	0.00	0	0.00	0.00
20	Madhya Pradesh	205.00	217.79	80.67	380.37
21	Maharashtra	82.23	34.26	66.61	310.72
22	Manipur	0.00	0.00	0.03	1.30
23	Meghlya	0.00	0.00	0.01	0.05
24	Mizoram	0.00	0.10	0.00	0.10
25	Nagaland	0.00	0.00	0.50	0.00
26	Odisha	2.26	35.16	12.50	0.15
27	Puducherry	0.00	0.00	0.05	0.10
28	Punjab	168.75	227.31	388.89	111.69
29	Rajasthan	228.85	329.18	543.00	497.53
30	Sikkim	0.00	0.00	0.00	0.01
31	Tamil Nadu	54.12	922.34	630.01	127.65
32	Telangana	61.25	360.80	759.13	1761.43
33	Tripura	5.00	0.00	0.09	0.00
34	Uttar Pradesh	42.16	72.79	193.24	213.86
35	Uttarakhand	0.00	37.95	192.35	58.79
36	West Bengal	0.00	0.69	18.37	22.26
<b>TOTAL</b>		<b>1112.07</b>	<b>3018.88</b>	<b>5525.98</b>	<b>6166.15</b>

## ANNEXURE-II

## ANNEXURE-II REFERRED TO IN REPLY TO PART (b) OF LOK SABHA UNSTARRED QUESTION NO. 2288 FOR 08.03.2018

## DETAILS OF FUNDS RELEASED UNDER THE NATIONAL SOLAR MISSION

## (I) PILOT-CUM-DEMONSTRATION PROJECT FOR DEVELOPMENT OF GRID-CONNECTED SOLAR PV POWER PLANTS ON CANAL BANKS AND CANAL TOPS

State-wise details are given below:

CFA Released by SECI to Project Implementing Agencies Under Canal Top & Canal Bank Solar PV Scheme							
Sl. No	State	Implementing Agency	Project Details		CFA Released (Rs. in crore)		
			Project Type	Capacity (MW)	FY 2015-16	FY 2016-17	Total
1	Andhra Pradesh	New and Renewable Energy Development Corporation of Andhra Pradesh (NREDCAP)	CT	1	0.58	0.32	0.90
2		Andhra Pradesh Power Generation Corporation Limited (APGENCO)	CB	5	1.50	1.50	3.00
		Sub-total		6	2.08	1.82	3.90
3	Gujarat	Sardar Sarovar Narmada Nigam Limited (SSNNL)	CT & CB	10 & 15	10.50	10.32	20.82
4	Karnataka	Krishna Bhagya Jala Nigam Limited (KBJNL)	CT	10	4.82	3.39	8.21
5	Kerala	Kerala State Electricity Board Limited (KSEB)	CT&CB	2 & 1	1.50	1.21	2.71
6	Punjab	Punjab Energy Development Agency (PEDA)	CT	20	12.00	3.00	15.00
7	Uttar Pradesh	Uttar Pradesh Irrigation Department	CT	3.5 & 2.5	2.83	0.0	2.83
8	Uttarakhand	Uttarakhand Jal Vidyut Nigam Limited	CT & CB	1 & 19	6.30	6.30	12.60
9	West Bengal	West Bengal State Electricity Distribution Company Limited (WBSEDCL)	CB	10	3.00	4.80	7.80
<b>Total of CFA to States</b>			<b>CT &amp; CB</b>	<b>50 + 50</b>	<b>43.03</b>	<b>30.83</b>	<b>73.86</b>

CT: Canal Top, CB: Canal Bank

Note: No funds released during 2017-18.

**(II) DEVELOPMENT OF SOLAR PARKS AND ULTRA MEGA SOLAR POWER PROJECTS****(As on 31-01-2018)****Year wise CFA Released under the Solar Park Scheme****(Rs. in Crore)**

Sl. No.	State	Solar Park	Agency/ Authority	2014-15	2015-16	2016-17	2017-18	Total
1	A & N	NTPC	NTPC	0	0.25	0	0	0.25
2	Andhra Pradesh	Ananthapuramu Solar Park	APSPCL	73.58	63.02	0	0	136.60
		Kurnool Solar Park		50.75	40.40	0	18.12	109.27
		Kadapa solar park		0	0	10.35	10.10	20.45
		Ananthapuramu-II Solar Park		0	0	5.30	5.05	10.35
		Ext Trans Infra for Ananthapur Solar Park	PGCIL	0		26.74	33.52	60.27
		Ext Trans Infra for Kurnool Solar Park	APTRANSCO	0		31.13	43.61	74.74
		<b>Sub-total</b>				<b>124.33</b>	<b>103.67</b>	<b>73.52</b>
3	Arunachal Pradesh	Lohit Solar Park	APDA	0	0.25	0.83	0	1.08
4	Chhattisgarh	Solar Park in Chhattisgarh	CREDA	0	0.25	0	0	0.25
5	Gujarat	Radnesada Solar Park	GPCL	2.78	30.67	0	0	33.45
		Harsad Solar Park		0	0	0	0.25	0.25
		<b>Sub-total</b>				<b>2.78</b>	<b>30.67</b>	<b>0</b>
6	Haryana	Solar Park in Haryana	SUN Haryana	0	0.25	0	0	0.25
7	Himachal Pradesh	Solar Park in HP	HPSEB	0	0.25	0	0	0.25
8	Jammu and Kashmir	Solar Park in J&K	JAKEDA	0	0	0.25	0	0.25
9	Karnataka	Pavagada Solar	KSPDCL	0	90.50	80.80	0	171.30

Sl. No.	State	Solar Park	Agency/ Authority	2014-15	2015-16	2016-17	2017-18	Total
		Park						
		Ext Trans Infra for Pavagada Solar Park	PGCIL	0	0	28.28	12.12	40.40
		<b>Sub-total</b>		<b>0</b>	<b>90.50</b>	<b>109.08</b>	<b>12.12</b>	<b>211.70</b>
10	Kerala	Kasargod Solar Park	RPCKL	0	2.27	0	0	2.27
11	Madhya Pradesh	Neemuch-Mandsaur Solar Park	RUMSL	1.52	0	0	0	1.52
		Rewa Solar Park		1.52	31.98	30.30	8.92	72.72
		Rajgarh-Morena Solar Park		0	0	0.25	0	0.25
		Chhatarpur Solar Park		0	0	0.25	0	0.25
		Ext Trans Infra for Rewa Solar Park	PGCIL	0	0	25.76	4.55	30.30
		<b>Sub-total</b>		<b>3.04</b>	<b>31.98</b>	<b>56.56</b>	<b>13.47</b>	<b>105.04</b>
12	Maharashtra	Sai Guru Solar Park	MEDA	0	0.25	5.05	0	5.30
		Patoda Solar Park		0	0.25	5.05	0	5.30
		Dandoicha Solar Park		0	0.25	0	0	0.25
		<b>Sub-total</b>		<b>0</b>	<b>0.75</b>	<b>10.10</b>	<b>0</b>	<b>10.85</b>
13	Manipur	Bukpi Solar Park	MTDC	0	0	0	0.25	0.25
14	Meghalaya	Solar Park in Meghalaya	MePGCL	0	0.25	0	0	0.25
15	Mizoram	Vankal Solar Park	P & E Dept	0	0	0	0.25	0.25
16	Nagaland	Solar Park in Nagaland	DNRE	0	0.25	0	0	0.25
17	Odisha	Solar Park in Odisha	GEDCOL	0	0	0.25	0	0.25

Sl. No.	State	Solar Park	Agency/ Authority	2014-15	2015-16	2016-17	2017-18	Total
18	Punjab	Solar Park in Punjab	PEDA	3.03	0	0	0	3.03
19	Rajasthan	Bhadla Ph-II Solar Park	RRECL	33.78	28.27	0	0	62.05
		Bhadla Ph-III Solar Park		0	46.25	4.50	17.79	68.54
		Bhadla Ph-IV Solar Park		0	0.25	27.27	24.24	51.76
		Phalodi-Pokaran Solar Park		0	0.25	0	0	0.25
		Fatehgarh 1B Solar Park		0	0.25	0	0	0.25
		Jaisalmer Ph I Solar Park		0	10.35	0	0	10.35
		Nokh Solar Park		0	0	0	0.25	0.25
		Ext Trans Infra for Bhadla-II, III, IV SP	RVPN	0	0	50.82	0	50.82
		Ext Trans Infra for Bhadla-III & Bhadla-IV	PGCIL	0	0	30.26	0	30.26
		<b>Sub-total</b>				<b>33.78</b>	<b>85.62</b>	<b>112.85</b>
20	Tamil Nadu	Kadaladi Soalr Park	TNEB	0	0	0	0.25	0.25
21	Telangana	Gattu Solar Park	TNREDCL	2.78	0	0	0	2.78
22	Uttar Pradesh	UP Solar Park	LSPDCL	2.78	18.26	0	0	21.04
		Ext Trans Infra for UP solar park	UPPTCL	0	0	0	17.36	17.36
		<b>Sub-total</b>				<b>2.78</b>	<b>18.26</b>	<b>0</b>
23	Uttarakhand	SIIDCUL Solar Park	SIIDCUL	0	0.25	2.36	0	2.61
24	West Bengal	Solar Park in West Bengal	WBSEDCL	0	0.25	2.12	0	2.37
<b>Total</b>				<b>172.52</b>	<b>365.47</b>	<b>367.09</b>	<b>196.63</b>	<b>1101.71</b>

**(III) GRID CONNECTED SOLAR ROOFTOPS**

(Rs. in Crore)

Sl. No.	State/UTs	2014-15	2015-16	2016-17	2017-18 (as on 31.01.2018)
		Released amount	Released amount	Release Amount	Release Amount
1	Andhra Pradesh	2.41	3.87	9.15	4.82
2	Assam	0.00	0.00	38.46	0.00
3	Andaman & Nicobar	0.00	0.00	0.53	7.00
4	Chhattisgarh	0.00	3.60	5.50	3.30
5	Delhi	0.00	5.76	19.47	21.40
6	Gujarat	0.00	4.50	17.43	23.18
7	Goa	0.00	1.44	0.00	0.00
8	Haryana	0.00	3.60	16.22	0.00
9	J& K	0.00	0.00	3.68	0.00
10	Jharkhand	0.00	0.00	12.71	0.00
11	Kerala	0.00	4.68	4.05	9.41
12	Karnataka	0.00	0.00	2.52	0.00
13	Lakswadeep	0.00	0.00	0.46	0.00
14	Madhya Pradesh	0.00	1.24	31.96	3.14
15	Maharashtra	0.00	0.00	23.18	0.00
16	Odisha	0.00	2.88	0.86	1.61
17	Puduchhery	0.00	0.00	1.11	0.00
18	Punjab	0.00	9.22	4.50	0.00

19	Rajasthan	0.00	4.26	14.79	11.68
20	Tamil Nadu	0.00	8.23	69.67	0.00
21	Telangana	0.00	3.78	20.12	2.72
22	Tripura	0.00	0.00	0.00	0.70
23	Uttarakhand	0.01	22.13	25.97	10.35
24	Uttar Pradesh	0.00	5.86	1.16	2.32
25	West Bengal	0.00	3.09	0.17	6.30
26	Chandigarh	1.26	9.09	6.72	1.73
27	Manipur	0.00	0.91	8.11	0.00
28	Himachal Pradesh	0.00	0.00	5.43	0.00
29	Mizoram				4.54
30	Arunachal Pradesh	0.00	0.00	0.00	14.06
	<b>Sub- Total</b>	<b>3.68</b>	<b>98.14</b>	<b>343.89</b>	<b>128.25</b>
31	PSU/Govt Department	0.00	18.52	74.74	16.52
32	SECI	0.00	128.00	250.00	0.00
33	NISE	0.00	2.62	0.00	0.00
34	TERI	0.00	0.09	0.00	0.00
35	others (NFDC)	0.00	0.02	9.38	0.00
	<b>Total</b>	<b>3.68</b>	<b>247.39</b>	<b>678.01</b>	<b>144.77</b>



**(IV) OFF-GRID SPV SCHEME****State-wise details of funds released for Solar Off grid applications for the last three years and current year (upto 31.12.2017)****(Rs. In lakhs)**

	States/UTs	2014-15	2015-16	2016-17	2017-18
1	Andhra Pradesh	3205	10368	3953	6530
2	Arunachal Pradesh	261	57	694	155
3	Assam	57	439	1358	377
4	Bihar	648	1541	0	0
5	Chhattisgarh	3014	3327	6549	11163
6	Delhi	102	124	0	0
7	Gujarat	1689	1797	2608	2622
8	Haryana	624	1922	0	0
9	Himachal Pradesh	1628	4100	2650	0
10	Jammu & Kashmir	1915	4395	2466	0
11	Jharkhand	651	1551	0	555
12	Karnataka	834	66	3901	0
13	Kerala	2370	965	2359	778
14	Lakshadweep	0	375	0	0
15	Madhya Pradesh	1570	41	66	2536
16	Maharashtra	3431	2442	0	0
17	Manipur	147	1160	442	0
18	Meghalaya	573	312	1354	167
19	Mizoram	702	753	1354	1266
20	Nagaland	350	555	1501	772
21	Odisha	1294	195	1700	609
22	Puducherry	26	0	0	0
23	Punjab	1024	824	0	0
24	Rajasthan	11489	20063	6711	3647
25	Sikkim	141	28	282	0
26	Tamil Nadu	2939	8262	207	0
27	Telangana	2232	1502	0	2070
28	Tripura	113	347	1372	0
29	Uttarakhand	115	2510	373	0
30	Uttar Pradesh	4481	3851	1896	2666
31	West Bengal	167	34	0	0
32	Chandigarh	276	0	0	0
33	Others/NABARD/Channel Partners etc.	13411	26515	11266	26207
	Total	61479	100421	55065	62120