

Status of implementation of various schemes to achieve 1,00,000 MW Solar Plan

(as on 31.01.2016)

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(i) Cumulative Commissioned as on 31-01-2016

Commissioning Status of Grid Connected Solar Power Projects								
Sr. No.	State/UT	Total MNRE Projects MW	State Policy MW	RPO MW	REC Scheme MW	Pvt. Initiative (Roof top) MW	CPSUs MW	Total commissioned capacity till 31-01-16 (MW)
1	Andhra Pradesh	94.75	329.47	0	38.7	2.82	10	475.74
2	Arunachal Pradesh	0.265	0	0	0	0	0	0.265
3	Chhattisgarh	4	64.08	0	4.6	0.5	0	73.18
4	Gujarat	40	877.15	50	6	51	0	1024.15
5	Haryana	7.8	0	0	0	0	5	12.8
6	Jharkhand	16	0	0	0	0	0	16
7	Karnataka	15	66	10	0	4.22	9	104.22
8	Kerala	0.025	12	0	0	0	0	12.025
9	Madhya Pradesh	225.25	307.55	0	80.78	0	65	678.58
10	Maharashtra	72	126	50	121.32	9.38	0	378.7
11	Odisha	22	30	0	4.5	0.42	10	66.92
12	Punjab	10.5	182.05	0	7.52	0.25	0	200.32
13	Rajasthan	944.1	67.65	40	212.6	0	0	1264.35
14	Tamil Nadu	26	182.075	0	190.86	20.01	0	418.945
15	Telangana	0	312.89	0	23.4	6.1	0	342.39
16	Tripura	0	0	0	5	0	0	5
17	Uttar Pradesh	12	110.74	0	0	1.75	15.51	140
18	Uttarakhand	5	0	0	0	0	0	5
19	West Bengal	2.05	5	0	0	0.16	0	7.21
20	Andaman & Nicobar	0.1	0	0	0	0	5	5.1
21	Delhi	0.335	0	0	2.14	4.237	0	6.712
22	Lakshadweep	0.75	0	0	0	0	0	0.75
23	Puducherry	0.025	0	0	0	0	0	0.025
24	Chandigarh	5.041	0	0	0	0	0	5.041
25	Daman & Diu	0	4	0	0	0	0	4
26	Others	0.79	0	0	0	0	0	0.79
TOTAL		1503.781	2676.655	150	697.42	100.847	119.51	5248.213

(ii) Commissioned in 2015-16 as on 31/01/2016

Commissioning Status of Grid Connected Solar Power Projects under JNNSM in 2015-16								
Sr. No.	State/UT	Total MNRE Projects MW	State Policy MW	RPO MW	REC Scheme MW	Pvt. Initiative (Roof top) MW	CPSUs MW	Total commissioned capacity till 31-01-16 (MW)
1	Andhra Pradesh	0	227.28	0	4.4	1.2	0	232.88
2	Arunachal Pradesh	0.24	0	0	0	0	0	0.24
3	Chhattisgarh	0	64.08	0	1.5	0	0	65.58
4	Gujarat	20	4.1	0	0	0	0	24.1
5	Haryana	0	0	0	0	0	0	0
6	Jharkhand	0	0	0	0	0	0	0
7	Karnataka	10	16	0	0	1	0	27
8	Kerala		12	0	0	0	0	12
9	Madhya Pradesh	40	75	0	5	0	0	120
10	Maharashtra	15	0	0	2	0.95	0	17.95
11	Odisha	10	25	0	0	0.16	0	35.16
12	Punjab	0	15.05	0	0	0	0	15.05
13	Rajasthan	260	42.65	0	19.6	0	0	322.25
14	Tamil Nadu	10	164.075	0	92.7	9.59	0	276.365
15	Telangana	0	279.64	0	1.5	0	0	281.14
16	Tripura	0	0	0	0	0	0	0
17	Uttar Pradesh	0	68.74	0	0	0	0	68.74
18	Uttarakhand	0	0	0	0	0	0	0
19	West Bengal	0	0	0	0	0	0	0
20	Andaman & Nicobar	0	0	0	0	0	0	0
21	Delhi	0	0	0	0	1.247	0	1.247
22	Lakshadweep	0	0	0	0	0	0	0
23	Puducherry	0	0	0	0	0	0	0
24	Chandigarh	0.541	0	0	0	0	0	0.541
25	Daman & Diu	0	4	0	0	0	0	4
TOTAL		365.781	997.615	0	126.7	14.147	0	1504.243

a) Likely to commissioned in 2015-16 under State Policies

Sr. No.	State/UT	Total Expected commissioning during 2015-16 (MW)
1	Andhra Pradesh	529
2	Arunachal Pradesh	0
3	Chhattisgarh	65
4	Gujarat	0
5	Haryana	0
6	Jharkhand	0
7	Karnataka	100
8	Kerala	0
9	Madhya Pradesh	432
10	Maharashtra	0
11	Odisha	25
12	Punjab	229
13	Rajasthan	330
14	Tamil Nadu	500
15	Telangana	900
16	Tripura	0
17	Uttar Pradesh	70
18	Uttarakhand	30
19	West Bengal	0
20	Andaman & Nicobar	0
21	Delhi	0
22	Lakshadweep	0
23	Puducherry	0
24	Chandigarh	0
25	Daman & Diu	10
TOTAL		3220

b) Projects likely to be commissioned in 2015-16 under Government of India Policies

S.No	Schemes	Likely to be commissioned by 31.03.2016 (MW)
1	Grid Connected VGF Scheme (Balance of Ph-II, Batch-I)	330
2	Rooftop Scheme	240
	Total	570

c) Projects likely to be commissioned in 2015-16:-3220 + 570 = 3790 MW

Overall Status of tendering/PPA's for commissioning in 2016-17

(A) GOI Support

Sl. No.	Tendering by	Tendering Capacity (MW)	Remarks	Expected commissioning in 2016-17(MW)
1	SECI	2670	Under 2000 MW VGF Scheme a) Gujarat- 225 MW(Open)+25 MW(DCR) b) Maharashtra- 450 MW(Open)+50 MW(DCR))(Bids of 450 MW opened) c) UP- 440 MW(open) d) AP- 500 MW(02-01-16) Total= 1690 MW tendered	1600
		1250	1250 MW Under 5000 MW VGF Scheme of MNRE to be tendered by Jan 2016 subject to Cabinet Approval	1000
		100	100 MW Project allotted and Under Canal-top/ bank scheme of MNRE. Total=64 MW tendered.	44
		62.5	62.5 MW SECI's own projects Total=10MW tendered	50
		3	3 MW IPTPS, New Delhi, LOI issued on 07.10.2015 Total= 3MW tendered.	3
2	NTPC Ltd. (Developer mode)	3000	Under 3000 MW Bundling Scheme of MNRE a) AP Solar park 50x10 = 500 MW (29-4-15), reverse acution- 03.11.2015, Entire capacity won by Sun Edison at Rs 4.63/kWh b) Rajasthan Solar Park 70x6= 420 MW (21-5-15), Technical Bid Open, Reverse auction-18/01/2016 Rs 4.34/kWh,4.35/kWh, 4.36/kWh c) AP Solar Park 350 MW single project - reverse acution- 14.12.2015, Entire capacity won by SB Cleantech at Rs 4.63/kWh 50x3 = 150 MW (DCR category) (21-5-15) Reverse acution- 15/12/2015, Rs 5.12/kWh&5.13 d) Rajasthan 130 MW(open)+100 MW(DCR) =230 MW(21-05-	2000

			<p>2015)</p> <p>e) Karnataka 500 MW(Open)+100 MW(DCR)=600 W (28-08-2015)</p> <p>f) UP 100 MW(Open)- (12-08-2015) Reverse auction- 25.01.16, Rs 5.12/kWh</p> <p>g) Telangana-350 MW(open)+50 MW(DCR)(09-10-2015)</p> <p>Total = 2750 MW tendered Open-2600 MW, DCR-400 MW Solar park:2270 MW, Non Solar:730 MW</p>	
3	NTPC Ltd. (Own Projects)	3020	<p>a) AP-250 MW(DCR)- Awarded on 29.04.2015</p> <p>b) MP- 250 MW(DCR)- 24/05/2015, (Reverse auction-Feb 2016)</p> <p>c) Rajasthan- 260 MW(DCR)- 24/05/15, (Reverse auction-Feb 2016)</p> <p>d) AP- 750 MW(open)- 21/08/15</p> <p>e) Karnataka- 1000 MW-25/01/16 (750 MW-open+ 250 MW-DCR)</p> <p>Total- 2510 MW tendered. (Open-1500 MW, DCR-1010 MW)</p>	500
6	Foreign Currency Equated Tariff A) NTPC b) PTC	1000 1000		
7	Other CPSU (Coal India, IREDA, THDC)	600	<p>a) 50 MW-IREDA by SECI</p> <p>b) 10 MW-VPT by SECI</p> <p>c) 200 MW-CIL by SECI</p> <p>d) 4 MW- New Mangalore port trust by SECI</p> <p>e) 10 MW- Paradip Port Trust by SECI</p> <p>f) 2 MW- OFB,Bhandara</p> <p>g) 5 MW- OFB,Ambajhari</p> <p>Total= 281 MW tendered (Open- 74 MW, DCR-207 MW)</p>	500
8	Rooftop PV (SNAs and SECI 's)	1000	<p>a) 50 MW-CPWD by SECI-RESCO, Bids opened 07.12.2015</p> <p>Total= 50 MW tendered</p>	1000
	Total	13,705.5	Total= 7358 MW	6697

(B) State Government

S.No	State	Tendering Capacity	Remark	Expected commissioning in 2016-17 (MW)
1	Punjab	500 MW	Financial Bid opened on 07-09-2015. LOI issued on 19.10.2015 and PPA of 350 MW is signed and rest is under process.	500
2	Karnataka	300 MW	Under Farmer scheme, PPA signed	1000
		1200 MW	Request for proposal (RFP) invited on 20.11.2015. Technical Bid opened.	
3	Madhya Pradesh	300 MW	Financial Bids opened on 15.07.2015. PPA signed	300
4	Telangana	2000 MW	Financial Bids opened on 03.08.2015. LOI issued.	2000
5	Haryana	150 MW	Technical Bid opened. Financial Bid opened on 07.12.2015. LOI issued.	150
6	Uttar Pradesh	215 MW	LOI issued on 09.09.2015 and PPA signed.	223
7	Uttrakhand	170 MW	Financial Bids opened on 28.10.2015. LOI issued and process of signing of PPA.	191
8	Andhra Pradesh	500 MW	Tender issued by APGENCO on EPC basis. Technical bid opened on 30.11.2015. Under process of awarding the projects.	200
9	Tamil Nadu	1284 MW	Under Preferential Tariff, PPA signed of 1284 MW	700
10	Jharkhand	1200 MW	Tender issued by JREDA on 07.12.2015	200
	Total	7819 MW		5464 MW

(C) Total Tendered already done upto 01/01/2016: 7358+7819=15177 MW

(D) Projects likely to be commissioned in 2016-17: 6697+5464=12161 MW

Expected Tender in February 2016 to March 2016**(i) GOI Support: 4281 MW**

Sl. No.	Tendering by	Tendering Capacity (MW)	States/Likely date of issue of tender
1	NTPC Ltd. (Own Projects)	700 MW	Gujarat
	Total: 800 MW	100 MW	Andaman & Nicobar
2	NTPC Ltd. (Developer mode) Total: 250 MW	250 MW	Andhra Pradesh
3	SECI- 100 MW canal top and canal bank Total: 36 MW	36 MW	Different State
	SECI- VGF Scheme Total: 3050 MW	750 MW	Andhra Pradesh
		1000 MW	Karnataka
		500 MW	Odisha
		500 MW	Maharashtra
		250 MW	Haryana
		50 MW	Himachal Pradesh
4	SECI- as a consultant Total: 70 MW	50 MW-THDC	Kerala
		20 MW- OFB	Different Location
		20 MW	Different Location
5	Other CPSU Total: 75 MW	75 MW	KVIC- 10 MW VPT- 10 MW NHPC Ltd- 50 MW Rashtriya Ispat- 5 MW

(ii) State Government: 150 MW

Sl. No.	Tendering State	Tendering Capacity (MW)
1	Bihar	150 MW

(iii) Total Expected Tender: 4281 MW+150= 4431 MW

Rooftops

S.no		With subsidy	Without subsidy
1	SNAs	Under process	200 MW
2	SECI	750 MW	500 MW

Trend of Solar Tariff

Previous bid results					
	Year	Capacity on Offer (MW)	Highest Bid (Rs./KWh)	Lowest (Rs./KWh)	Weighted Avg. Price (Rs./KWh)
NSM Batch 1	Dec'10	150	12.76	10.95	12.16
NSM Batch2	Dec'11	350	9.39	7.49	8.79
Orissa Phase 1	Mar'12	25	8.98	7.0	8.36
Orissa Phase 2	Dec'12	25	9.50	7.28	8.73
Karnataka	Apr'12	60	8.5	7.94	8.34
Madhya Pradesh	Jun'12	125	12.45	7.9	8.05
Tamil Nadu	Mar'13	150	14.5	5.97	6.48*
Rajasthan	Mar'13	75	8.25	6.45	6.45 (L1)
Andhra Pradesh	Apr'13	226	15.99	6.49	6.49 (L1)
Punjab Phase 1	June'13	270	8.75	7.2	8.41
Uttar Pradesh Phase 1	Aug'13	130	9.33	8.01	8.9
Karnataka Phase 2	Aug'13	130	8.05	5.5	6.87
Madhya Pradesh Phase 2	Jan'14	100	6.97	6.47	6.86
Andhra Pradesh Phase 2	Oct'14	500	5.99**(7.03 Levelized)	5.25** (6.17 Level.)	5.75** (6.75 Level.)
Karnataka	Nov'14	500	7.12	6.71	6.94
Telangana	Nov'14	500	6.9	6.46	6.72
Punjab (Capacity 5-24 MW)	Feb'15	100	7.45	6.88	7.17
Punjab (Capacity 25-100 MW)	Feb'15	100	7.56	6.88	7.16
NTPC Anantapur	May'15	250	-	-	6.16*** (L1)
Uttar Pradesh Phase 2	June'15	215	8.6	7.02	8.04
Madhya Pradesh	June'15	300	5.641	5.051	5.36
Telangana Group 1****	August'15	500	5.8727	5.4991	5.73
Telangana Group 2****	August'15	1500	5.8877	5.1729	5.62
Punjab	Sept'15	500	5.98	5.09	5.65
Uttarakhand	Oct 2015	170	5.99	5.57	5.766
AP-500 MW Bundling scheme*****	Nov,2015	500	4.63	4.63	4.63
AP-350 MW Bundling scheme*****	Dec,2015	350	4.63	4.63	4.63
AP-150 MW Bundling scheme(DCR)*****	Dec,2015	150	5.13	5.12	5.123
Haryana(State scheme)	Dec,2015	150	5.00	5.00	5.00
Rajasthan-420 MW Bundling	Jan,2016	420	4.36	4.35	4.351
UP-100 MW Bundling	Jan,2016	100	4.78	4.78	4.78
*5% escalation for 10 years					
** 3% escalation for 10 years. Separate L1 for 9 districts					
*** EPC Bids with Domestic content requirement. Capital subsidy of Rs. 1 Cr/MW					

Results for the lowest bid for 500 and 1500 MW respectively. The sub-station wise final list to be declared soon** Online reverse action concluded on 03.11.2015. Entire capacity has been won by Sun edission. ***** Online reverse action concluded on 14.12.2015. Entire capacity has been won by SB Clean ***** Online reverse action concluded on 15.12.2015 under DCR category.