

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 2033
TO BE ANSWERED ON 05.05.2016

GENERATION OF SOLAR ENERGY

2033. SHRI SANJAY HARIBHAU JADHAV:
SHRI RAM KUMAR SHARMA :
SHRIMATI POONAMBEN MAADAM:
SHRI R. DHRUVA NARAYANA:

Will the Minister of New and Renewable Energy be pleased to state:

- (a) the solar generation capacity in the country during the last year, State-wise;
- (b) the solar energy capacity increased in the country during each of the last three years, State-wise;
- (c) whether the Union Government has set a target to generate solar energy by the year 2019, if so, the State-wise plan prepared to achieve this target;
- (d) the total funds likely to be spent for the said purpose by the Union Government, State-wise;
- (e) whether the price of solar power for the consumers has been higher as compared to thermal, atomic and hydro power, particularly during the initial stage of solar power projects, if so, the break-up of tariff thereof separately; and
- (f) whether the tariff of solar power will continuously keep on declining after every two years, if so, the facts in this regard?

ANSWER

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

- (a):** State-wise details of solar energy generation capacity in the country installed during the last year is given at Annexure-I.
- (b):** State-wise details of solar energy generation capacity increased during the last three years is given at Annexure-I.
- (c):** Yes, Madam. Government has set a target of Grid connected solar power of 100 GW by 2022. State-wise plan, taking Renewable Purchase Obligation (RPO) of 8%, is given at Annexure-II.
- (d):** The funds to be spent by Union Government are decided on year to year basis. Funds allocated for years 2015-16 and 2016-17 are Rs. 3147 crore and Rs. 3140 crore respectively.
- (e):** The solar tariff are quite competitive in comparison with the tariff from newly constructed thermal, atomic and hydro power projects. The details as provided by Central Electricity Authority (CEA) are given at Annexure-III.
- (f):** The solar tariff during the last 2 to 3 years has declined. However, it cannot be ascertained that it will keep on declining after every two years. Under the recent tenders for procurement of solar power, the tariff discovered ranges from as low as Rs. 4.34 per kWh to Rs. 5.50 per kWh.

ANNEXURE-I REFERRED TO IN REPLY TO PARTS (a)&(b) OF LOK
SABHA UNSTARRED QUESTION NO. 2033 FOR REPLY ON 5.5.2016

Sr. No.	State/UT	Total Capacity added during 2013-14	Total Capacity added during 2014-15	Total Capacity added during 2015-16
		MW	MW	MW
1	Andhra Pradesh	108.69	126.77	435.11
2	Arunachal Pradesh	0	0	0.24
3	Bihar	0	0	5.10
4	Chhattisgarh	3.1	0.5	85.98
5	Gujarat	58.5	83.65	119.12
6	Haryana	2.5	2.5	2.59
7	Himachal Pradesh	0	0	0.20
8	J & K	0	0	1.00
9	Jharkhand	0	0	0.19
10	Karnataka	17	46.22	68.24
11	Kerala	0	0	13.02
12	Madhya Pradesh	309.85	205	217.79
13	Maharashtra	149.25	82.225	25.01
14	Mizoram	0	0	0.10
15	Orissa	17.5	2.26	35.16
16	Punjab	7.52	168.75	219.79
17	Rajasthan	178.95	228.85	327.83
18	Tamil Nadu	81.76	54.12	919.24
19	Telangana	0	61.25	360.80
20	Tripura	0	5	0.00
21	Uttar Pradesh	3.70	42.16	72.24
22	Uttarakhand	0	0	36.15
23	West Bengal	5	0	0.56
24	Delhi	2.14	0.315	8.82
25	Chandigarh	2	2.5	2.31
26	Daman & Diu	0	0	4.00
27	Others	0	0	58.31
TOTAL		947.46	1112.07	3018.88

**ANNEXURE-II REFERRED TO IN REPLY TO PARTS (c) OF LOK SABHA
UNSTARRED QUESTION NO. 2033 FOR REPLY ON 5.5.2016**

S. No.	States/UTs	Capacity required as per RPO Up to 2021-22 (MW)
1.	Andhra Pradesh	5678
2.	Andaman & Nicobar	9
3.	Arunachal Pradesh	42
4.	Assam	713
5.	Bihar	2758
6.	Chhattisgarh	1923
7.	Chandigarh	56
8.	Daman & Diu	167
9.	Dadar & Nagar Haveli	442
10.	Delhi	1705
11.	Goa	306
12.	Gujarat	9796
13.	Haryana	3676
14.	Himachal Pradesh	585
15.	Jammu & Kashmir	1292
16.	Jharkhand	464
17.	Karnataka	6671
18.	Kerala	1400
19.	Lakshadweep	4
20.	Madhya Pradesh	6303
21.	Maharashtra	13270
22.	Manipur	120
23.	Mizoram	75
24.	Meghalaya	176
25.	Nagaland	54
26.	Orissa	2191
27.	Puducherry	202
28.	Punjab	3762
29.	Rajasthan	6953
30.	Sikkim	13
31.	Tamil Nadu	9398
32.	Telangana	4753
33.	Tripura	109
34.	Uttarakhand	608
35.	Uttar Pradesh	12124
36.	West Bengal	4223
	Total	102021

**ANNEXURE-III REFERRED TO IN REPLY TO PART (e) OF LOK SABHA
UNSTARRED QUESTION NO. 2033 FOR REPLY ON 5.5.2016**

Type of Power Plant	First Year Tariff (Rs./unit)	Levellised Tariff (In Rs./unit)
Thermal, Coal, pithead based	3.75	4.57
Thermal, Coal, non-pithead based	5.49	7.58
Hydro Power Plant	4.6	4.00
Atomic Power Station	4.94	5.00
Solar Power Plant	4.50	4.50