

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO. 699**  
TO BE ANSWERED ON 06.02.2020

**SOLAR ENERGY PLANTS**

699. SHRI SHRINIWAS PATIL  
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Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) whether solar energy plants have been/being set up with foreign investment in the country including Maharashtra and Tamil Nadu;
- (b) if so, the details thereof including the investment made by the foreign companies for the purpose, country-wise;
- (c) the number of solar energy plants set up and functional with the help of foreign investment and cost of setting up of the same and the units of solar energy generated therefrom;
- (d) whether the Government proposes to allow firms to bid tariffs in dollar to encourage foreign investment and if so, the details thereof;
- (e) whether the Government extends any incentives to boost foreign direct investment in solar energy sector;
- (f) if so, the details thereof; and
- (g) the other steps taken by the Government for encouraging solar power generation in the country?

**ANSWER**

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

(SHRI R.K. SINGH)

(a)&(b) The Government have allowed 100% Foreign Direct Investment (FDI) in Renewable energy sector including solar power industry through automatic route in the country including Maharashtra and Tamil Nadu. The Department of Promotion of Industry and Internal Trade has reported FDI equity inflow of USD 8,693.06 million in non-conventional energy sector from April,2000 to September,2019. The country-wise details are given in **Annexure-I**.

(c) The details of state wise solar energy capacity installed in the country are given in **Annexure-II**. These projects have generated 34.79 BU of electricity in current year so far. However, details of solar energy plants set up with foreign investment alone are not available.

(d) The Government is not planning to allow firms to bid tariffs in dollar.

(e)&(f) The Government has allowed 100% Foreign Direct Investment (FDI) in Renewable energy sector including solar power industry through automatic route.

(g) The Government has taken following steps to encourage solar power generation in the country:

- (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 Corridors/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 various new schemes including Pradhan Mantri Kisan Urja Suraksha Evam Utthan Mahabhiyan (PM-KUSUM), 12000 MW CPSU Scheme (Phase II) and Solar Rooftop (Phase II) program.

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**ANNEXURE REFERRED TO IN REPLY TO PARTS (A) AND (B) OF LOK SABHA  
UNSTARRED QUESTION NO. 699 FOR 06.02.2020****STATEMENT ON COUNTRY-WISE FDI EQUITY INFLOWS  
FROM APRIL 2000 TO SEPTEMBER 2019  
Sector NON-CONVENTIONAL ENERGY**

(Amount in US\$ million)

<b>S.No</b>	<b>Name of the Country</b>	<b>Amount of Foreign Direct Investment Inflows</b>	<b>%age with Inflows</b>
		Total	(In US\$ million)
1	Australia	28.82	0.33
2	Austria	3.46	0.04
3	Bahamas	0.20	0.00
4	Bahrain	16.51	0.19
5	Belgium	11.52	0.13
6	Bulgaria	0.25	0.00
7	Canada	348.20	4.01
8	Cayman Islands	6.10	0.07
9	China	51.33	0.59
10	Czech Republic	0.28	0.00
11	Cyprus	23.02	0.26
12	Denmark	2.16	0.02
13	Finland	0.34	0.00
14	France	154.65	1.78
15	Germany	131.08	1.51
16	HongKong	54.37	0.63
17	Indonesia	430.67	4.95
18	Israel	0.00	0.00
19	Italy	15.57	0.18
20	Liechtenstein	0.48	0.01
21	Japan	168.86	1.94
22	Korea(North)	14.52	0.17
23	South Korea	21.52	0.25
24	Kuwait	0.09	0.00
25	Luxembourg	69.16	0.80
26	Malaysia	312.72	3.60
27	Mauritius	3,268.18	37.60
28	NRI ***	0.12	0.00
29	Netherland	732.02	8.42
30	Norway	20.35	0.23
31	Philippines	44.73	0.51
32	Portugal	0.00	0.00
33	Qatar	0.08	0.00
34	Russia	0.03	0.00

35	Saudi Arabia	0.38	0.00
36	Singapore	1,264.72	14.55
37	South Africa	0.02	0.00
38	Spain	388.87	4.47
39	Sweden	0.25	0.00
40	Slovenia	0.03	0.00
41	Switzerland	2.68	0.03
42	Syria	0.00	0.00
43	Turkey	0.02	0.00
44	UAE	37.66	0.43
45	United Kingdom	792.37	9.11
46	U.S.A	171.72	1.98
47	British Virginia	8.92	0.10
48	Country Details Awaited	0.52	0.01
49	Malta	0.00	0.00
50	Georgia	0.00	0.00
51	Virgin Islands(US)	7.80	0.09
52	Seychelles	85.69	0.99
	<b>Grand Total</b>	<b>8,693.06</b>	

**Note: Source: Department of Promotion of Industry and Internal Trade**

**ANNEXURE II****ANNEXURE II REFERRED TO IN REPLY TO PART (C) OF LOK SABHA UNSTARRED QUESTION NO. 699 FOR 06.02.2020.****GRID CONNECTED SOLAR POWER CAPACITY INSTALLED AS ON 31-12-2019**

<b>Sr. No.</b>	<b>State/UT</b>	<b>Solar Power Capacity (In MW)</b>
1	Andaman & Nicobar	12.19
2	Andhra Pradesh	3559.02
3	Arunachal Pradesh	5.61
4	Assam	41.23
5	Bihar	149.35
6	Chandigarh	36.99
7	Chhattisgarh	231.35
8	Dadar & Nagar	5.46
9	Daman & Diu	16.56
10	Delhi	156.12
11	Goa	4.78
12	Gujarat	2763.55
13	Haryana	249.27
14	Himachal Pradesh	32.57
15	Jammu & Kashmir	19.30
16	Jharkhand	38.40
17	Karnataka	7274.92
18	Kerala	141.75
19	Lakshadweep	0.75
20	Madhya Pradesh	2237.48
21	Maharashtra	1663.42
22	Manipur	4.58
23	Meghalaya	0.12
24	Mizoram	1.52
25	Nagaland	1.00
26	Odisha	397.84
27	Pondicherry	5.51
28	Punjab	947.10
29	Rajasthan	4844.21
30	Sikkim	0.07
31	Tamil Nadu	3788.36
32	Telangana	3620.75
33	Tripura	9.41
34	Uttar Pradesh	1045.10
35	Uttarakhand	315.49
36	West Bengal	109.41
<b>Total</b>		<b>33730.53</b>