

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**STARRED QUESTION NO-200**  
TO BE ANSWERED ON-04.07.2019

**SOLAR ENERGY POLICY**

\*200. SHRI JANARDAN SINGH SIGRIWAL

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

- (a) the details and salient features of the Government's Solar Energy Policy;
- (b) the details of the progress made in the implementation of the said policy, State-wise;
- (c) the details of schemes which are operational at present to promote solar energy, particularly at domestic level;
- (d) whether the Government proposes to provide financial assistance for domestic use for promotion/installation of rooftop and small solar power plants; and
- (e) if so, the details thereof?

**ANSWER**

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

(a) to (e) A Statement is laid on the Table of the House.

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## STATEMENT

### STATEMENT REFERRED TO IN REPLY TO LOK SABHA STARRED QUESTION NO. 200 (20<sup>TH</sup> POSITION) FOR 04.07.2019 REGARDING SOLAR ENERGY POLICY

(a) : The Government of India have set a target of 175 GW renewable power capacity to be installed in the country by 2022. This consists of 100 GW from Solar, 60 GW from Wind , 10 GW from Biomass and 5 GW from Small Hydro. In order to achieve the target of 100 GW from Solar, the Government has launched various schemes, with the details as under, for solar power generation in the country:

i. Solar Park Scheme for setting up of over 50 Solar Parks and Ultra Mega Solar Power Projects targeting over 40,000 MW of solar power projects.

ii. Scheme for setting up 1000 MW of Grid-Connected Solar PV Power Projects by the Central Public Sector Undertakings (CPSUs) and the Government of India organisations with Viability Gap Funding (VGF).

iii. Scheme for setting up 300 MW of Grid-Connected Solar PV Power Projects by Defence Establishments and Para Military Forces with VGF.

iv. Pilot-cum-demonstration projects for development of grid connected solar PV power plants on canal banks and canal tops.

v. Bundling Scheme - 15000 MW grid-connected solar PV power plants through NTPC Ltd./ NVVN.

vi. VGF Scheme for setting up of 2000 MW of Grid Connected Solar PV Power Projects through SECI.

vii. VGF Scheme for setting up of 5000 MW of Grid Connected Solar PV Power Projects through SECI.

viii. Installation of Grid Connected Solar Rooftop Power Plants.

ix. Off-Grid Solar PV Scheme.

x. Kisan Urja Suraksha evam Utthaan Mahabhiyan (KUSUM).

(b): State-wise details of cumulative grid connected installed solar power capacity of 29,409.22 MW, as on 31.05.2019, are given at **Annexure-I**.

(c): The details of schemes which are operational at present to promote solar energy, including those at domestic level, are given at **Annexure-II**.

(d) and (e): The details of Central Financial Assistance available for domestic use for promotion/installation of rooftop and small solar power plants are given at **Annexure-II**.

**ANNEXURE-I**

**ANNEXURE-I REFERRED TO IN REPLY TO PART (b) OF LOK SABHA  
STARRED QUESTION NO. 200 FOR 04.07.2019**

**COMMISSIONING STATUS OF GRID CONNECTED SOLAR PROJECTS AS ON  
31-05-2019**

<b>Sr. No.</b>	<b>State/UT</b>	<b>Cumulative Capacity till 31-05-2019 (MW)</b>
1	Andaman & Nicobar	11.73
2	Andhra Pradesh	3290.76
3	Arunachal Pradesh	5.39
4	Assam	26.87
5	Bihar	144.95
6	Chandigarh	34.71
7	Chhattisgarh	231.35
8	Dadar & Nagar	5.46
9	Daman & Diu	15.41
10	Delhi	132.15
11	Goa	4.78
12	Gujarat	2564.14
13	Haryana	232.16
14	Himachal Pradesh	24.02
15	Jammu & Kashmir	15.12
16	Jharkhand	36.47
17	Karnataka	6134.90
18	Kerala	140.33
19	Lakshadweep	0.75
20	Madhya Pradesh	1992.25
21	Maharashtra	1639.15
22	Manipur	3.47
23	Meghalaya	0.12
24	Mizoram	0.51
25	Nagaland	1.00
26	Odisha	396.89
27	Pondicherry	3.14
28	Punjab	905.62
29	Rajasthan	3551.00
30	Sikkim	0.01
31	Tamil Nadu	2812.05
32	Telangana	3598.80
33	Tripura	9.41
34	Uttar Pradesh	1045.10
35	Uttarakhand	309.84
36	West Bengal	89.43
<b>Total</b>		<b>29409.22</b>

**ANNEXURE-II**

**ANNEXURE-II REFERRED TO IN REPLY TO PARTS (c), (d) and (e) OF LOK  
SABHA STARRED QUESTION NO. 200 FOR 04.07.2019**

**DETAILS OF CFA/SUBSIDIES/INCENTIVES BEING PROVIDED FOR THE  
DEVELOPMENT & CONSUMPTION OF SOLAR ENERGY UNDER VARIOUS  
SCHEMES**

**A. GRID-INTERACTIVE SOLAR POWER PROGRAMMES:**

<b>1. Solar Power Projects.</b>		
a) Solar Park Scheme	--	Rs. 25 lakh per Solar park for preparation of Detailed Project Report (DPRs).  Rs. 20 Lakh per MW or 30% of the project cost including Grid-connectivity cost, whichever is lower
b) Grid connected Solar PV Power Projects by Central Public Sector Undertakings (CPSUs)	Total size of the scheme 1000MW.	VGF support to the CPSUs/Govt. Of India Organizations at a fixed rate of Rs.1 crore/MW for projects where domestically produced cells and modules are used and Rs. 0.50 crores/MW in cases where domestically produced modules are used.
c) Solar PV scheme for Defence Establishments	--	Tender issued before 17/02/2017- VGF support is Rs. 2.50 Cr. /MW Tender issued after 17/02/2017- Rs 1.1 crore / MW for all capacities.
d) Grid-connected Solar PV Power plants on Canal Banks and Canal Tops	1 MW to 10 MW	Rs 1.5 Crore/MW for Canal Bank and Rs 3.0 Crore/MW for Canal Top Projects, subject to 30% of the project cost in both the cases.
e) Solar PV Power projects under Jawaharlal Nehru National Solar Mission (JNNSM) Phase-II, Batch-I of total 750 MW with Viability Gap Funding (VGF) support from National Clean Energy Fund (NCEF).	Minimum Project Capacity 10 MW  Maximum Project Capacity 50 MW	VGF support up to 30% of Project Cost limited or maximum of Rs. 2.50 Cr/MW whichever is less, based on reverse bidding process for power producers.
f) 2000 MW VGF Scheme for setting up of 2000 MW of Grid Connected Solar PV Power Projects through SECI	No project less than 10 MW	VGF support with upper limit @ 1.00 Cr. /MW for open category and Rs. 1.31 Crore/MW for DCR category on the basis of bids
g) VGF Scheme for setting	No project less than	VGF support with upper limit @ Rs.1.0

up of 5000 MW of Grid Connected Solar PV Power Projects through SECI	10 MW	crore/MW for open category and Rs.1.25 crore/MW for projects in DCR category
h) Grid Connected Rooftop Solar PV Power Projects in residential, institutional and social sector	Benchmark of Rs. 60 to 70 per watt depending upon the capacity.	Central Financial Assistance (CFA) up to 30% of benchmark cost for the General Category States/UTs and up to 70% of benchmark cost for Special Category States/UTs, i.e. North Eastern States including Sikkim, Uttarakhand, Himachal Pradesh, Jammu & Kashmir and Lakshadweep, Andaman & Nicobar Islands is provided to consumers for installation of grid connected solar rooftop projects. Incentives are also provided for promotion of roof top SPV power in Government sector. No subsidy is provided for commercial and industrial establishments in private sector.
i) Kisan Urja Suraksha evam Utthaan Mahabhiyan (KUSUM)	---	CFA of 30% of the benchmark cost or the tender cost, whichever is lower.  In North Eastern States, Sikkim, Jammu & Kashmir, Himachal Pradesh and Uttarakhand, Lakshadweep and A&N Islands, CFA of 50% of the benchmark cost or the tender cost, whichever is lower.

## B. OFF-GRID / DECENTRALIZED SOLAR ENERGY PROGRAMMES:

1.	<b>Decentralized Solar Photovoltaic Systems.</b>	
	a) Lighting systems/ Power packs	Subsidy of 30% of the device/ project cost
	b) Solar pumps	Subsidy of 30%, 25%, and 20% depending upon pump capacity.
	c) Solar Study lamps	Student contribution Rs 100 Balance to be paid as Central Financial Assistance.
	d) Solar Street light under AJAY scheme	75% of the project cost
2.	<b>Concentrating Solar Thermal Technology</b>	30% of the project cost.