

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO. 1578
ANSWERED ON 14.03.2023

PROMOTION OF SOLAR ENERGY

1578. SHRI VINAY DINU TENDULKAR

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

- (a) whether Government has launched any scheme for the common people to promote solar energy in the country, if so, the details of those States and Union Territories;
- (b) the percentage population of the country which has benefited by this purpose during the year 2019-20, 2020-21, 2021-22;
- (c) the amount allocated and spent so far for this objective and spent or earned through subsidy during the last three years; and
- (d) if so, the details thereof?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a) Details of Schemes/Programmes presently being implemented by the Ministry of New and Renewable Energy (MNRE) for promotion of solar energy to common people and their availability in various States/ UTs are placed at **Annexure-I**.

(b) MNRE's Schemes/Programmes to promote solar energy fetch a variety of benefits to the country and its people. These include improved access to energy and reduction in environmental pollution. Further, solar generation projects also create employment opportunities, particularly in the areas where they are set up. State-wise details of solar power projects/ applications installed in last three years and the current year are placed at **Annexure-II**.

(c) & (d) Details of the amount allocated and spent by the MNRE for promotion of solar energy in last three years and the current year are placed at **Annexure-III**. This amount includes expenditure by way of subsidy, viability gap funding and incentives provided, including service charges to implementing agencies, under various Schemes/Programmes.

**Annexure-I referred in reply to Part (a) of the Rajya Sabha Unstarred Question No. 1578 to
beanswered on 14.03.2023**

Details of major ongoing schemes for promotion of Solar Energy

Scheme/ Programmes	Financial support presently available as per the Scheme	
a) Rooftop Solar Programme Phase-II	<p>Addition of 4000 MW RTS capacity in Residential Sector through provision of Central Financial Assistance (CFA). In addition, incentives to Discoms for initial 18000 MW RTS capacity addition.</p> <p>The Programme is demand driven and open for all citizens of the country for installation of rooftop solar in residential sector as per provisions of implementation guidelines issued for the Programme</p> <p>(i) For Residential Sector</p> <ul style="list-style-type: none"> • Central Financial Assistance (CFA) up to 40% for capacity up to 3 kWp • CFA up to 20% for capacity beyond 3 kWp and up to 10 kWp • CFA up to 20% for GHS/RWA capacity up to 500 kWp (limited to 10 kWp per house and total upto 500 kWp) <p>(ii) For Discoms Incentives up to 10% of project cost depending upon achievements in capacity addition above baseline.</p>	All States/ UTs
b) PM-KUSUM scheme	<p>The Scheme is demand driven and open for all farmers of the country for implementation as per guidelines issued for the Scheme.</p> <p>Component A: Setting up of 10,000 MW of Decentralized Ground/Stilt Mounted Solar Power Plants on barren/fallow/pasture/marshy land of farmers. Such plants can be installed by individual farmer, Solar Power Developer, Cooperatives, Panchayats and Farmers Producer Organisations. Benefit available: Procurement Based Incentive (PBI) to the DISCOMs @ 40 paise/kWh or Rs.6.60 lakhs/MW/year, whichever is lower, for buying solar power under this scheme. The PBI is given to the DISCOMs for a period of five years from the Commercial Operation Date of the plant.</p>	All States/ UTs

	<p>Therefore, the total PBI that payable to DISCOMs is upto Rs. 33 Lakh per MW.</p> <p>Component B: Installation of 20.00 Lakh Stand-alone Solar Pumps in off-grid areas. Benefit available: CFA of 30% of the benchmark cost or the tender cost, whichever is lower, of the stand-alone solar agriculture pump is provided. However, in North Eastern States, Sikkim, Jammu & Kashmir, Ladakh, Himachal Pradesh and Uttarakhand, Lakshadweep and A&N Islands, CFA of 50% of the benchmark cost or the tender cost, whichever is lower, of the stand-alone solar pump is provided.</p> <p>Component C: Solarisation of 15 Lakh Grid Connected Agriculture Pumps through (i) Individual Pump Solarisation and (ii) Feeder Level Solarisation. Benefit available: (a) Individual Pump Solarization: CFA of 30% of the benchmark cost or the tender cost, whichever is lower, of the solar PV component is provided. However, in North Eastern States, Sikkim, Jammu & Kashmir, Ladakh, Himachal Pradesh, Uttarakhand, Lakshadweep and A&N Islands, CFA of 50% of the benchmark cost or the tender cost, whichever is lower, of the solar PV component is provided. (b) Feeder Level Solarization: Agriculture feeders can be solarized by the State Government in CAPEX or RESCO mode with CFA of Rs. 1.05 Crore per MW available from MNRE.</p>	
c) Central Public Sector Undertaking (CPSU) Scheme Phase-II (Government Producer Scheme) for grid-connected Solar Photovoltaic (PV) Power Projects by the Government Producers	Viability Gap Funding (VGF) support up to Rs 55 lakhs per MW to the CPSUs/Govt. Organizations entities selected through competitive bidding process.	All States/ UTs
d) Solar Park Scheme	Up to 25 lakhs per Solar Park, for preparation of Detailed Project Report (DPR). 20 Lakh per MW or 30% of the project cost, whichever is lower, for development of infrastructure.	All States/ UTs

e) Green Energy Corridor Scheme (for development of intra-state transmission system for RE projects)	GEC Phase-I: CFA of 40 % of DPR cost or awarded cost whichever is lower. GEC Phase-II: CFA of 33 % of DPR cost or awarded cost whichever is lower.	Major RE rich states
f) PLI Scheme 'National Programme on High Efficiency Solar PV Modules'	The beneficiaries are eligible for Production Linked Incentive (PLI) on production and sale of solar PV modules. The quantum of PLI eligible for disbursal depends upon: (i) quantum of sales of solar PV modules; (ii) performance parameters (efficiency and temperature coefficient of maximum power) of solar PV modules sold; and (iii) percentage of local value addition in modules sold.	All States/ UTs

**Annexure-II referred in reply to Part (b) of the Rajya Sabha Unstarred Question No. 1578 to
beanswered on 14.03.2023**

State-wise details on Solar Energy Capacity Installation during 01.04.2019 to 31.01.2023

S. No.	STATES / UT	Solar Power Capacity Installed (in MW)			
		Ground Mounted	Roof Top	Off-grid/ Distributed	Solar Power Total
1	Andhra Pradesh	1244.44	106.80	0.15	1351.39
2	Arunachal Pradesh	0.00	0.22	1.79	2.01
3	Assam	94.33	21.75	1.37	117.45
4	Bihar	2.13	27.03	4.40	33.56
5	Chhatisgarh	291.35	35.46	194.14	520.95
6	Goa	0.00	22.36	0.00	22.36
7	Gujarat	4320.98	1934.49	13.63	6269.10
8	Haryana	135.00	324.44	308.63	768.07
9	Himachal Pradesh	21.10	13.63	22.81	57.54
10	Jammu & Kashmir	0.00	16.06	2.96	13.02
11	Jharkhand	0.00	19.39	30.63	50.02
12	Karnataka	1636.14	256.59	5.11	1897.84
13	Kerala	186.48	361.25	0.67	548.40
14	Ladakh	0.00	1.80	0.00	7.80
15	Madhya Pradesh	652.49	196.23	35.13	883.85
16	Maharashtra	643.80	1237.77	174.58	2056.15
17	Manipur	0.00	2.92	1.15	4.07
18	Meghalaya	0.00	0.09	0.21	0.30
19	Mizoram	0.00	1.16	2.12	3.28
20	Nagaland	0.00	0.00	0.20	0.20
21	Odisha	20.00	10.49	6.75	37.24
22	Punjab	3.65	166.89	65.55	236.09
23	Rajasthan	10330.84	680.64	398.56	12989.04
24	Sikkim	0.00	2.75	0.05	2.80
25	Tamil Nadu	3629.04	230.78	18.79	3878.61
26	Telangana	841.22	215.16	0.42	1056.80
27	Tripura	0.00	4.69	4.23	8.92
28	Uttar Pradesh	1230.50	142.68	72.77	1445.95
29	Uttarakhand	58.62	195.74	4.08	258.44
30	West Bengal	63.80	27.09	0.59	91.48
31	Andaman & Nicobar	17.45	0.46	0.03	17.94
32	Chandigarh	0.00	23.17	0.00	23.17
33	DNH and DD	0.00	26.54	0.00	26.54
34	Delhi	0.00	83.95	0.00	83.95
35	Lakshwadeep	0.00	0.00	0.13	0.13
36	Pondicherry	0.77	31.44	0.00	32.21
37	Others	0.00	0.00	0.00	0.00
	Total (MW)	25424.13	6421.91	1371.63	34796.67

**Annexure-III referred in reply to Part (c) and (d) of the Rajya Sabha Unstarred Question
No.1578 to be answered on 14.03.2023**

**Funds Allocated and Spent on Promotion of Solar Energy in Last Three Years and the
Current Year**

Year	Funds Allocated (Rs. Crore)	Expenditure (Rs. Crore)
2019-20	2280.51	1985.12
2020-21	1776.24	1199.28
2021-22	2685.26	2202.46
2022-23	3604.80	3238.12*

* Expenditure till 28.02.2023