

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 2
ANSWERED ON 02.02.2023

PRIVATE SECTOR INVESTMENT IN SOLAR ENERGY SECTOR

2. SHRI GNANATHIRAVIAM S

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

- (a) the quantum of solar energy being generated in the country, State/UT-wise;
- (b) whether the Government proposes incentives for private sector investment in the said field;
- (c) if so, the details of the private sector investment made so far and the quantum of solar energy generated therefrom;
- (d) whether the Government also proposes to give more incentives in view of the fact that the generation of solar energy is not commercially viable; and
- (e) if so, the details thereof?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a) State/UT-wise details of solar energy generated in the country, as on 31.12.2022, in 2022-23 are given at **Annexure**.

(b) The Government has taken following measures to incentivise investment by private sector in the field of renewable energy including solar energy in the country:

- Permitting Foreign Direct Investment (FDI) up to 100 percent under the automatic route,
- Waiver of Inter State Transmission System (ISTS) charges for inter-state sale of solar and wind power for projects to be commissioned by 30th June 2025,
- Declaration of trajectory for Renewable Purchase Obligation (RPO) up to the year 2029-30,
- Setting up of Ultra Mega Renewable Energy Parks to provide land and transmission to RE developers for installation of RE projects at large scale,
- Schemes such as Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM), Solar Rooftop Phase II, 12000 MW CPSU Scheme Phase II, etc,
- Laying of new transmission lines and creating new sub-station capacity under the Green Energy Corridor Scheme for evacuation of renewable power,
- Notification of standards for deployment of solar photovoltaic system/devices,
- Setting up of Project Development Cell for attracting and facilitating investments,
- Standard Bidding Guidelines for tariff based competitive bidding process for procurement of Power from Grid Connected Solar PV and Wind Projects.
- Government has issued orders that power shall be dispatched against Letter of Credit (LC) or advance payment to ensure timely payment by distribution licensees to RE generators.
- Notification of Promoting Renewable Energy through Green Energy Open Access Rules 2022.
- Notification of "The electricity (Late Payment Surcharge and related matters) Rules (LPS rules).
- Launch of Green Term Ahead Market (GTAM) to facilitate sale of Renewable Energy Power through exchanges.
- National Green Hydrogen Mission approved with an aim to make India a Global Hub for production, utilization and export of Green Hydrogen and its derivatives.

(c) With a normative cost of Rs. 4 Crore per MW for solar installation, it is estimated that an investment of around Rs. 2,53,210 Crore has been made on installation of 63302.47 MW capacity solar projects in the country.

(d) & (e) Since the tariff of electricity generated from solar energy has come down to as low as Rs. 1.99 per kWh, much lower than new thermal or hydro based power generation systems, solar power projects are commercially viable.

**ANNEXURE REFERRED TO IN REPLY TO PART (a) OF LOK SABHA UNSTARRED QUESTION NO. 2 FOR
02.02.2023**

STATE/UT-WISE DETAILS OF SOLAR POWER GENERATION IN THE COUNTRY

All Fig in MU

Name of State/UT	2022-23 (upto Dec 2022)
Chandigarh	9.03
Delhi	184.48
Haryana	448.65
HP	46.59
J & K	0.00
Ladkh	0.00
Punjab	1919.79
Rajasthan	25120.22
Uttar Pradesh	2697.61
Uttarakhand	248.85
Northern Region	30675.22
Chhattisgarh	411.43
Gujarat	7210.67
Madhya Pradesh	2855.09
Maharashtra	2989.75
Dadra and Nagar Haveli	23.17
Goa	10.33
Western Region	13500.45
Andhra Pradesh	5828.41
Telangana	4802.72
Karnataka	9983.65
Kerala	547.16
Tamil Nadu	6629.06
Lakshadweep	0.08
Puducherry	9.18
Southern Region	27800.26
Andaman Nicobar	17.57
Bihar	126.93
Jharkhand	15.29
Orissa	509.20
Sikkim	0.00
West Bengal	92.01
Eastern Region	760.99
Arunachal Pradesh	21.73
Assam	152.17
Manipur	6.29
Meghalaya	0.00
Mizoram	2.42
Nagaland	0.00
Tripura	4.95
North Eastern Region	187.56
All India Total	72924.49

Source: Data from Central Electricity Authority (CEA)