

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO-4844
ANSWERED ON-25.03.2021

RENEWABLE ENERGY COOPERATION WITH FRANCE

4844. SHRI SHRIRANG APPA BARNE
SHRI CHANDRA SHEKHAR SAHU
SHRI MATI RAKSHA NIKHIL KHADSE
SHRI SUDHEER GUPTA
SHRI BIDYUT BARAN MAHATO
SHRI SANJAY SADASHIVRAO MANDLIK

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

- (a) Whether the Government proposes to sign Memorandum of Understanding (MoU) on renewable energy cooperation with France and if so, the details thereof;
- (b) Whether the Government has finalised the areas and technologies likely to be covered under the said MoU and if so, the details thereof;
- (c) the extent to which renewable energy in India is likely to be increases after use of French technologies relating to solar, wind, hydrogen and biomass energy;
- (d) whether India will be able to obtain the process of attaining the ambitious target of 450 GW of installed renewable energy capacity by 2030;
- (e) if so, the details thereof and the steps taken by the Government to achieve the said target in time bound manner; and
- (f) the details of the proposals received from the States for setting up of renewable energy plants along with the response of the Government thereto, State-wise?

ANSWER

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

(a) to (c) A Memorandum of Understanding (MoU) in the field of renewable energy was signed between the Ministry for the Ecological Transition of the French Republic and the Ministry of New and Renewable Energy of the Republic of India on 28.01.2021 at New Delhi.

The Memorandum of Understanding will focus on development of new and renewable energy technologies in the following areas:

- a) Solar
- b) Wind energy
- c) Hydrogen
- d) Biomass
- e) Any other mutually agreed areas

The activities under the Memorandum of Understanding will contribute towards development and deployment of renewable energy in India.

(d)&(e) Yes Sir. The Government of India has taken several steps to promote the renewable energy in the country. These include:

- i. Permitting Foreign Direct Investment (FDI) up to 100 percent under the automatic route,
- 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 by 30th June 2023,
- iii. Declaration of trajectory for Renewable Purchase Obligation (RPO) up to the year 2022,
- iv. Setting up of Ultra Mega Renewable Energy Parks to provide land and transmission to RE developers on a plug and play basis,
- v. Schemes such as Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan (PM-KUSUM), Solar Rooftop Phase II, 12000 MW CPSU Scheme Phase II, etc,
- vi. Laying of new transmission lines and creating new sub-station capacity under the Green Energy Corridor Scheme for evacuation of renewable power,
- vii. Notification of standards for deployment of solar photovoltaic system/devices,
- viii. Setting up of Project Development Cell for attracting and facilitating investments,
- ix. Standard Bidding Guidelines for tariff based competitive bidding process for procurement of Power from Grid Connected Solar PV and Wind Projects.
- x. 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.

(f) The State-wise details of Renewable Energy Projects/Capacities sanctioned during the year 2020-21 so far are placed at **Annexure**.

Details of Renewable Energy Projects/ Capacities Sanctioned during the Year 2020-21**Solar Parks (as on 23.3.2021)**

S. No.	State	Solar Park	Capacity (MW)
1	Himachal Pradesh	Kaza Solar Park	1000
2	Kerala	Floating Solar Park	50
3	Madhya Pradesh	Omkareswar Floating Solar Park	600
4		Chhattarpur Solar Park	950
5		Morena Solar Park	1400
6		Barethi Solar Park	550
7	Odisha	Floating Solar Park	100
8	Uttar Pradesh	Jalaun Solar Park	1200
9		Lalitpur Solar Park	600
10		Jhansi Solar Park	600
		Solar Park in Mirzapur	100
Total			7150

Solar Rooftop (as on 23.3.2021)

S. No.	State	Capacity (MW)
1	Andhra Pradesh	25
2	Assam	2
3	Bihar	20
4	Chandigarh	70
5	Goa	80
6	Gujarat	492
7	Haryana	25
8	Jharkhand	50
9	Karnataka	312
10	Kerala	200
11	Lakshadweep	10
12	Maharashtra	502
13	Manipur	1
14	Meghalaya	70
15	Mizoram	1
16	Nagaland	3.8
17	NCT of Delhi	9.5
18	Puducherry	25
19	Punjab	50
20	Tamil Nadu	50
21	Telangana	25
22	Uttarakhand	26
23	West Bengal	50
	Total	2099.3

PM-KUSUM (as on 23.3.2021)

S. No.	State	Component-A (MW)	Component-B (Nos)	Component-C (Nos)	
				Individual Pumps Solarization	Feeder Level Solarization
1	Andhra Pradesh	0	0	0	50000
2	Arunachal Pradesh	0	50	0	0
3	Assam	0	1000	500	0
4	Chhattisgarh	30	20000	0	0
5	Delhi	62	0	550	0
6	Gujarat	500	3424	7000	500
7	Goa	50	200	7000	0
8	Haryana	65	37000	468	0
9	Himachal Pradesh	20	1550	0	0
10	Jammu & Kashmir	5	5000	0	0
11	Jharkhand	50	11000	500	10000
12	Karnataka	500	10500	1000	100000
13	Kerala	40	100	100	2000
14	Ladakh	0	600	0	0
15	Madhya Pradesh	300	60000	0	50000
16	Maharashtra	500	100000	0	100000
17	Manipur	0	150	0	0
18	Meghalaya	5	700	0	10000
19	Nagaland	0	50	0	0
20	Odisha	500	6000	0	0
21	Puducherry	7	0	0	0
22	Punjab	220	9500	0	25000
23	Rajasthan	1200	75000	37500	0
24	Tamil Nadu	75	6500	20000	0
25	Telangana	500	0	0	65000
26	Tripura	5	3900	2600	0
27	Uttar Pradesh	225	23000	0	30000
28	Uttarakhand	0	0	200	0
29	West Bengal	0	0	700	0
	Total	4859	375224	78118	442500

Biomass Power and Cogeneration**(as on 23.3.2021)**

S. No.	State	Capacity (MW)
1	Andhra Pradesh	1.39
2	Bihar	12.9
3	Haryana	14.5
4	Karnataka	63
5	Madhya Pradesh	1.99
6	Maharashtra	74.4
7	Odisha	0.8
8	Punjab	8.4
9	Telangana	2.0
10	Uttar Pradesh	6.75
11	West Bengal	4.2
	Total	190.33

Waste to Energy (as on 23.3.2021)

S. No.	State	Capacity (MW)
1	Andhra Pradesh	30.96
2	Gujarat	33.72
3	Haryana	0.88
4	Karnataka	0.23
5	Maharashtra	1.67
6	Tamil Nadu	2.21
7	Telangana	1.17
8	Uttar Pradesh	1.31
9	West Bengal	0.36
	Total	72.50

Biogas Power (Off-Grid) (as on 23.3.2021)

Sl. No.	State	Size (kW)
1.	Tamil Nadu	75
2.	Punjab	40
3.	Gujarat	33.70
4.	Haryana	150
5.	Madhya Pradesh	37
6.	Maharashtra	533.5
7.	Odisha	130
8.	Andhra Pradesh	24
9.	Telangana	472
10.	Uttar Pradesh	236
	Total	1731.2