

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
RAJYA SABHA
UNSTARRED QUESTION NO-296
ANSWERED ON-20/07/2021

MEETING THE SET TARGETS IN POWER GENERATION

296. SHRI SAMBHAJI CHHATRAPATI

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

- (a) whether the agencies engaged in power generation through new and renewable sources have failed to achieve targets set in previous years;
- (b) if so, the details of energy generation added to the national grid during the last three years and the targets set;
- (c) the immediate mechanism Government proposes to place to ensure that the target set up till 2020-21 is achieved so as to generate 175 GW power by 2022; and
- (d) the major new and renewable energy power generation projects with their capacity thereof, in progress in the country?

ANSWER

THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER

(SHRI R.K. SINGH)

(a)to(c) The Government has set a target of achieving 175 GW of Renewable Energy capacity (excluding large hydro) by December 2022. A total of 96.95 GW of renewable energy capacity (excluding large hydro) has been installed in the country as on 30-6-2021. Considering the disruption caused by Covid-19, the Ministry of New and Renewable Energy has given a time extension of upto seven and half months to renewable energy projects being implemented by agencies designated by MNRE or under various schemes of MNRE.

The pace of installation of Renewable Energy projects in India has been one of the fastest in the world. The details of renewable energy generation during last three years is given below:

Year	Generation (in million units)
2018-19	126759.09
2019-20	138337.02
2020-21	147247.51

(Source: Central Electricity Authority)

Government have taken several steps to promote renewable energy in the country. These include :

- 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 2022,
- setting up of Ultra Mega Renewable Energy Parks to provide land and transmission to RE developers on a plug and play basis,
- 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 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 for procurement of Power from Grid Connected Solar PV and Wind Projects.
- Government have 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.

(d) Renewable energy projects of capacity 50.35 GW are under various stages of implementation in the country. Project-wise details are given in **Annexure**.

Annexure referred in reply to part (d) of the Rajya Sabha Unstarred question no 296 on the subject “Meeting the set targets in power generation” to be answered on 20/7/2021.

Details of Renewable Energy projects under implementation

I. Solar Power

S. No.	Bidding Agency	Name of State/Scheme	Location	Capacity (MW)
1	SECI	ISTS-I	Jodhpur (RJ): 550 MW Jaisalmer (RJ): 600 MW	1300
			Bikaner (RJ): 600 MW	
2				
3		5000 MW VGF Scheme	Kadapa Solar Park, AP	750
4		ISTS-II	Jaisalmer (RJ)	600
5		Floating UP under SBD	Rihand (UP)	150
6		Rajasthan, Tr-I	Jaisalmer: 250 MW	250
7		ISTS-III	Bikaner (RJ): 300 MW	1200
			Jaisalmer (RJ): 600 MW	
			Jodhpur (RJ): 300 MW	
8		ISTS-IV	Bikaner (RJ): 300 MW	1150
			Jaisalmer (RJ): 300 MW	
			Jodhpur (RJ): 550 MW	
9		CPSU Ph-II (Tranche-I)	NTPC: 769 MW	922
			NHDC: 25 MW	
			Singareni Collieries: 90 MW	
			Assam PDCL: 30 MW	
			DMRC(Delhi): 3MW	
			Nalanda Univ (Bihar): 5 MW	
10		Rajasthan, Tr-II	Sri Ganga Nagar: 160 MW	610
			Bikaner (RJ): 200 MW	
			Jaisalmer (RJ): 250 MW	
11		ISTS-V	Thoothukudi (TN): 150 MW,	480
			Jodhpur (RJ): 150 MW,	
			Jaisalmer (RJ): 180 MW	
12		ISTS-VI	Bikaner (RJ): 300 MW	900
			Jaisalmer (RJ): 300 MW,	
			Khandwa (MP): 300 MW	
13		CPSU Ph-II Tranche-II	NTPC: 923 MW(anywhere)	1104
			Singareni Collieries: 81 MW,	
			Indore Municipal: 100 MW ,	
14		Rajasthan Tranche-III	Rajasthan	1070
15	NTPC	ISTS	Jaisalmer(RJ): 300 MW	300
16			Jaisalmer(RJ): 300 MW	300
17	NTPC (EPC)	Many states	Many states	217
18				
19	NHPC	ISTS	Barmer(RJ): 300 MW	2000
20			Jaisalmer(RJ): 1700 MW	
21	SSCL	Odisha	Ganjam	40
22			Multiple Locations	170
23			Multiple Locations	468
24			Multiple Locations	468
25	MAHAGENCO	Maharashtra	Mukhyamantri Krishi Sour Vahini Yojana (MKSVM)-Talukawise	348
26			Anywhere in India Ph-II (in Rajasthan)	1000
27			Maharashtra (Intra State Ph-IV)	500
28			Anywhere in India Ph-V	350
29	GUVNL	Gujarat	Dholera Solar Park (GUVNL Ph-V)	250
30			Raghnesda Solar Park (GUVNL Ph-IIIIR)	500
31			Raghnesda Solar Park (GUVNL	100

			Ph-VI)	
28			Dholera Solar Park (GUVNL Ph-VII)	50
29			Gujarat (GUVNL Ph-VIII)	350
30			Gujarat - Phase XI	500
31			Gujarat - Phase XII	500
32			Small scale & substations scheme	1000
33				
34	UPNEDA	Uttar Pradesh	State Scheme multiple location	159.75
35				72
36	UREDA	Uttarakhand	Hilly regions of Uttarakhand	188
37	WBSEDCL	West Bengal	Purba Medinipur District	125
38	TANGEDCO	Tamil Nadu	Various Districts of Tamil Nadu	60
39	HPPC	Haryana	Bhiwani & Sirsa	170
40			Rajasthan	241
41	CREDA	Chhattishgarh	State Scheme multiple location	505
42	APDCL	Assam	Ph-I State Scheme multiple location	100
43		Manufacturing Linked	Rajasthan/Any Where in India	12000
44				
45				
46				
47	SECI	ISTS-VIII	Jaisalmer: 300 MW, Jodhpur: 900 MW	1200
48				
49				
50				
51				
52	NTPC	ISTS	Nokh Solar Park	190
53	P&E Dept	Mizoram	Vankal Solar Park	20
54	APDCL	Assam	Ph-II State Scheme	25
55	KSEB	Kerala	State Scheme	200
56	UPNEDA	Uttar Pradesh	State Scheme	200
Total				36884.75

II. Wind Power

Sl. No.	Wind Power Projects under implementation	Capacity (MW)
1	SECI-II	269.9
2	SECI-III	1049.8
3	SECI-IV	1661
4	Tamil Nadu (TANGEDCO)	400.5
5	Maharashtra (MSEDCL)	223
6	SECI-V	1190
7	SECI – VI	950
8	SECI – VII	480
9	Gujarat (GUVNL Ph.-II)	64
10	SECI – VIII	440
11	SECI IX	970
12	SECI X	1200
	Total	8898.2

III. Wind Solar Hybrid

Sl. No.	Project/ Bid	Capacity (MW)
1.	Wind Solar Hybrid Tranche I	840
2.	Wind Solar Hybrid Tranche-II	600
3	Wind Solar Hybrid Tranche-III	1110
	Total	2550

IV. Assured Peak Power Supply

Sl. No.	Project Name	Tendered (MW)
1	1200MW ISTS-connected with assured peak power supply in India ISTS-VII	1200

V. Round the Clock (RTC) Power

S-NO	Bidder's Name	SPV (Name of Project Company/ WPD)	Capacity (MW)
1	Renew Solar Power Private limited	Renew Surya Roshni Private Limited	200
2	Renew Solar Power Private limited	Renew Surya Roshni Private Limited	200
Total			400

VI. Small Hydro Power

State wise list of Under Implementation Projects

S. No.	State	Capacity (MW)
1	Arunachal Pradesh	5
2	Assam	2
3	Gujarat	30.61
4	Himachal Pradesh	110.94
5	UT of Jammu & Kashmir	32.15
6	UT of Laddakh	10.15
7	Karnataka	16.45
8	Kerala	66.5
9	Madhya Pradesh	7.6
10	Maharashtra	9.35
11	Meghalaya	25.5
12	Mizoram	8.5
13	Nagaland	2
14	Odisha	33
15	Punjab	4.3
16	Sikkim	3
17	Uttar Pradesh	1.5
18	Uttarakhand	51.5
Total		420.05