

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO-4937**  
ANSWERED ON-25.03.2021

**UPCOMING RENEWABLE ENERGY PLANTS**

4937. SHRI UTTAM KUMAR REDDY NALAMADA

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

- (a) whether the Government is likely to achieve its target of 175 GW installed renewable energy capacity by 2022 and if so, the details thereof;
- (b) the details of current installed renewable energy capacity;
- (c) the details of installed solar, wind and tidal power production capacity in the country, State-wise; and
- (d) the details of upcoming renewable energy plants or projects in the country, 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)&(b) The Government has set a target of achieving 175 GW of installed Renewable Energy capacity (excluding large hydro) by December, 2022.

A total of 92.97 GW renewable energy capacity (excluding large hydro) has been cumulatively installed in the country as on 28-02-2021. Further, a capacity of 50.15 GW is under various stages of implementation and a capacity of 27.02 GW is under various stages of bidding.

(c) The state-wise and source-wise details of installed solar and wind energy capacity in the country are given **Annexure-I**. At present there is no tidal power generation in the country.

(d) The details of under construction renewable energy projects in the country are given in the **Annexure-II**.

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**Annexure-I referred to in reply to part (c) of Lok Sabha Starred Question No. 4937 for 25/3/2021 regarding ‘Upcoming Renewable Energy Plants’**

**“Source and State-wise installed Renewable Energy capacity in the country”**

S. No.	STATES / Uts	Solar Power	Wind Power
		(MW)	(MW)
1	Andhra Pradesh	3996.50	4096.65
2	Arunachal Pradesh	5.61	
3	Assam	42.99	
4	Bihar	159.51	
5	Chhatisgarh	252.48	
6	Goa	7.44	
7	Gujarat	4068.30	8306.42
8	Haryana	407.83	
9	Himachal Pradesh	42.73	
10	Jammu & Kashmir	20.73	
11	Jharkhand	48.63	
12	Karnataka	7346.85	4912.60
13	Kerala	257.00	62.50
14	Madhya Pradesh	2463.22	2519.89
15	Maharashtra	2289.97	5000.33
16	Manipur	6.36	
17	Meghalaya	0.12	
18	Mizoram	1.53	
19	Nagaland	1.00	
20	Odisha	401.72	
21	Punjab	947.10	
22	Rajasthan	5472.58	4326.82
23	Sikkim	0.07	
24	Tamil Nadu	4403.48	9431.54
25	Telangana	3936.36	128.10
26	Tripura	9.41	
27	Uttar Pradesh	1667.50	
28	Uttarakhand	353.41	
29	West Bengal	149.84	
30	Andaman & Nicobar	29.22	
31	Chandigarh	45.16	
32	Dadar & Nagar Haveli	5.46	
33	Daman & Diu	40.55	
34	Delhi	192.97	
35	Lakshwadeep	0.75	
36	Pondicherry	9.33	
37	Others		4.30
	<b>Total (MW)</b>	<b>39083.71</b>	<b>38789.15</b>

Annexure-II referred to in reply to part (d) of Lok Sabha Starred Question No. 4937 for 25/3/2021 regarding 'Upcoming Renewable Energy Plants'

### Details of Renewable Energy Projects under construction

#### 1. Solar Power

S. No.	Bidding Agency	Name of State/Scheme	Capacity (MW)
1	SECI	ISTS-I	1650
2		ISTS-II	600
3		Floating UP under SBD	150
4		Rajasthan (Non Solar Park, Tranche-I)	750
5		ISTS-III	1200
6		ISTS-IV	1150
7		CPSU Ph-II (Tranche-I)	922
8		Rajasthan (Non Solar Park, Tranche-II)	610
9		ISTS-V	480
10		ISTS-VI	900
11		CPSU Ph-II Tranche-II	1104
12	NTPC	Developer mode & ISTS	794
13		EPC Mode	217
14	NHPC	ISTS	2000
15	MSEDCL	Maharashtra	348
16			1000
17			500
18			350
19	GUVNL	Gujarat	300
20			380
21			250
22			500
23			100
24			50
25			350
26			500
27	UPNEDA	Uttar Pradesh	266
28			72
29	UREDA	Uttarakhand	203
30	Haryana	HPPC	170
31			241

## 2. Wind Power

Details of Existing/under construction Renewable Energy Projects as on 31.01.2021			
S. No.	Name of the project	Awarded Capacity (MW)	Name of Developer
1	Tranche II	50	Haroda Wind Energy Private Limited
2	Tranche II	50	Khatiyu Wind Energy Private Limited
3	Tranche II	50	Vigodi Wind Energy Private Limited
4	Tranche II	50	Nani Virani Wind Energy Private Limited
5	Tranche II	50	Ravapar Wind Energy Private Limited
6	Tranche III	100	ReNew Wind Energy (AP2) Private Limited
7	Tranche III	50	ALIENTO WIND ENERGY PRIVATE LIMITED
8	Tranche III	50	FLURRY WIND ENERGY PRIVATE LIMITED
9	Tranche III	50	TEMPEST WIND ENERGY PRIVATE LIMITED
10	Tranche III	50	VUELTA ENERGY PRIVATE LIMITED
11	Tranche IV	250	Continuum Power Trading (TN) Pvt Ltd
12	Tranche IV	300	Sprng Renewable Energy Private Limited
13	Tranche IV	285	Avikiran Solar India Pvt Ltd.
14	Tranche IV	50	Suswind Power Private Limited
15	Tranche IV	50	Flutter Wind Energy Private Limited
16	Tranche IV	50	Adani Renewable Energy (TN) Limited
17	Tranche IV	50	Adani Renewable Energy (TN) Limited
18	Tranche IV	50	Adani Renewable Energy (TN) Limited
19	Tranche IV	50	Adani Renewable Energy (TN) Limited
20	Tranche IV	50	Adani Renewable Energy (TN) Limited
21	Tranche IV	50	Adani Renewable Energy (TN) Limited
22	Tranche V	300	Adani Wind Energy (GJ) Limited
23	Tranche V	300	Netra Wind Private Limited
24	Tranche V	300	Sitac Kabini Renewables Private Limited
25	Tranche VI	150	Adani Wind Energy Kutchh Three Limited
26	Tranche VI	100	Adani Wind Energy Kutchh Three Limited
27	Tranche VI	300	Ostro Kannada Power Pvt Ltd
28	Tranche VI	50.6	Powerica Limited
29	Tranche VI	274.4	SBESS Services Projecto Two Private Limited
30	Tranche VI	50	SBESS Services Projecto Two Private Limited
31	Tranche VI	150	Morjar Windfarm Development Pvt. Ltd.
32	Tranche VI	125	Zenataris Renewable Energy Private Limited
33	Tranche VII	200	Betam Wind Energy Private Limited
34	Tranche VII	50	Ostro Energy Private Limited
35	Tranche VII	100	Sprng Wind Energy Private Limited
36	Tranche VII	130	Adani Wind Energy Kutchh Five Limited
37	Tranche VIII	250.8	CLP India Private Limited
38	Tranche VIII	190	Avikiran Energy India Private Limited
39	Tranche IX	500	JSW Solar Ltd
40	Tranche IX	310	JSW Solar Ltd
41	Tranche IX	160	Vena Energy Vidyuth Pvt Ltd

In addition, following wind power bids have been awarded by State Governments / other CPSUs

Sl. No.	Bidding	Capacity Awarded (MW)
1	TANGEDCO, Tamil Nadu	450
2	GUVN, Gujarat Ph. I	500
3	MSEDCL Maharashtra	500
4	NTPC	200
5	GUVN Gujarat Ph.-II	202.6

### 3. Wind Solar Hybrid

#### Details of Existing/ Under construction Hybrid Projects as on January, 2021

S. No.	Name of the Project	Installed Capacity (MW)	Name of Developer (Bidder)
1	1200MW ISTS-Connected Wind- Solar Hybrid Power Projects (Tranche-I)	195	Mahoba Solar (UP) Private Limited
2	1200MW ISTS-Connected Wind- Solar Hybrid Power Projects (Tranche-I)	195	Mahoba Solar (UP) Private Limited
3	1200MW ISTS-Connected Wind- Solar Hybrid Power Projects (Tranche-I)	150	SBE Renewables Ten Private Limited
4	1200MW ISTS-Connected Wind- Solar Hybrid Power Projects (Tranche-I)	300	SBE Renewables Ten Private Limited
5	1200MW ISTS-Connected Wind- Solar Hybrid Power Projects (Tranche-II)	300	Adani Renewable Energy (Park) Gujarat Limited
6	1200MW ISTS-Connected Wind- Solar Hybrid Power Projects (Tranche-II)	300	Adani Renewable Energy (Park) Gujarat Limited
7	1200MW ISTS-connected Wind Power Projects (Tranche-III)	130	AMP Energy Green Private Limited
8	1200MW ISTS-connected Wind Power Projects (Tranche-III)	600	Adani Renewable Energy Holding Eight Limited
9	1200MW ISTS-connected Wind Power Projects (Tranche-III)	380	ABC Renewable Energy Private Limited

### 4. Assured Peak Power Supply

1	1200MW ISTS-connected with assured peak power supply in India ISTS-VII	900	Greenko Energies Private limited
2	1200MW ISTS-connected with assured peak power supply in India ISTS-VII	300	Renew Solar Power Private limited

### 5. Small Hydro Power

S No.	Name of project	Capacity (MW)
1	Kachchh Branch Canal SHP - 3, SSNNL, Gujarat	6.66
2	Miyagam Branch Canal SHP - 1, SSNNL, Gujarat	2.25

3	Miyagam Branch Canal SHP – 2, SSNNL, Gujarat	1.5
4	Miyagam Branch Canal SHP - 4, SSNNL, Gujarat	2.25
5	Miyagam Branch Canal SHP - 5, SSNNL, Gujarat	2.25
6	Miyagam Branch Canal SHP - 6, SSNNL, Gujarat	2.25
7	Sipaha SHP, BHPC, Bihar	1
8	Dehra SHP, BHPC, Bihar	1
9	Rampur SHP, BHPC, Bihar	0.25
10	Natwar SHP, BHPC, Bihar	0.25
11	Amethi SHP, BHPC, Bihar	0.5
12	Mathauli SHP, BHPC, Bihar	0.8
13	Barbal SHP, BHPC, Bihar	1.6
14	Paharma, BHPC, Bihar	1
15	Walidad, BHPC, Bihar	0.7
16	Rajapur, BHPC, Bihar	0.7
17	Tejpura, BHPC, Bihar	1.5
18	Chathankottunada , KSEB, Kerala	6
19	Bhoothanthankettu, KSEB, Kerala	24
20	Peruvannamuzhy, KSEB, Kerala	6
21	Poringalkuthu, KSEB, Kerala	24
22	Upper Kallar, KSEB, Kerala	2
23	Pazhassi Sagar, KSEB, Kerala	7.5
24	Ganol SHP, MePGCL, Meghalaya	15
25	Riangdo, MePGCL, Meghalaya	3
26	Kawlbam, P & E Dept., Mizoram	4
27	Tlawva SHP, P & E Dept., Mizoram	5
28	Khara, UPJVNL, Uttar Pradesh	1.5
29	Chatten, SPDCL, Sikkim	3
30	NoiRoi Stage-I, Dept of New and Renewable Energy, Nagaland	0.15
31	Tsutsung Yongki, Dept of New and Renewable Energy, Nagaland	1
32	Ponglefo, Dept. of power, Nagaland	1
33	Taksang Chu Nallah SHP, HPDCAPL, Arunachal Pradesh	3.4
34	Khajalong SHP, DHPD, Arunachal Pradesh	2
35	Payu MHS at Pinchi river, DHPD, Arunachal Pradesh	1
36	Pakhan Kha MHS, DHPD, Arunachal Pradesh	0.5
37	Tirru Nallah MHS, DHPD, Arunachal Pradesh	0.1
39	Fure MHP, DHPD, Arunachal Pradesh	0.05
39	Taksing MHS, DHPD, Arunachal Pradesh	0.1
40	Tsati MHP, LREDA, UT of Ladakh	0.5
41	Henache MHP, LREDA, UT of Ladakh	0.6

42	Bogdand MHP, LREDA, UT of Ladakh	0.8
43	Chulungkha MHP , LREDA, UT of Ladakh	0.8
44	Khandi SHP, KREDA, UT of Ladakh	1
45	Raru SHP, KREDA, UT of Ladakh	2
46	Zunkul SHP , KREDA, UT of Ladakh	2.5
47	Karnah, JKSPDC, UT of Jammu & Kashmir	12

## 6. Bio-mass Power

S. No.	Project Name	Location
1	4.20 MW Biomass cogeneration project by Sukhjit Starch, Malda, West Bengal	WBDIC Growth Centre, N. H. – 34, Narayanpur, Malda – 732141, West Bengal
2	5 MW Biomass cogeneration project by Suchi Paper Mills limited	589/2, Bistrakh Road Industrial Area, Chhapraula, Gautam Budh Nagar, Uttar Pradesh
3	12 MW bagasse cogeneration project by TANGEDCO on BOOT Model	Dharmapuri District Coop. Sugar Mills Ltd., Palacode, Thimanhali, 636208, Tamil Nadu
4	15 MW bagasse cogeneration project by TANGEDCO on BOOT Model	Gomuki (Kallakurchi-II) Coop. Sugar Mills Ltd., 97-G Kachiraayapalam Road, Kallakurchi - 606202, Tamil Nadu
5	15 MW bagasse cogeneration project by TANGEDCO on BOOT Model	Kallakurichi -I Coop.Sugar Mills Ltd., Moongilthuraipattu 605702, Sankarpuram, Tamil Nadu
6	15 MW bagasse cogeneration project by TANGEDCO on BOOT model	M.R. Krislnamurthy Coop. Sugar Mills Ltd., 9 Sethiathope, Chidambaram - 608702, Tamil Nadu
7	15 MW bagasse cogeneration project by TANGEDCO on BOOT model	Salem Coop. Sugar Mills Ltd., Mohanpur - 637015, Tamil Nadu
8	15 MW bagasse cogeneration project by TANGEDCO on BOOT model	Subramaniya Siva Coop. Sugar Mill Ltd., Alapuram - 636904, Gopalapuram,Pappireddaratti, Tamil Nadu

## 7. Waste to Energy

Sr. No.	Project	Location of Plant
1.	5628kg/day capacity BioCNG project by M/s Shri Hari BioCNG & Fertilizer LLP	District-Bharuch, Gujarat
2.	5600 kg/day capacity BioCNG project by M/s PS Green GAS	Khataauli, Muzzafarnagar, Uttar Pradesh
3.	4200kg/day BioCNG plant by M/s Amrit Fertilizers	Bada Gaon Road, Village Kunjpura,Distt. Karnal, Haryana
4.	15MW power plant based on MSW by M/s Jindal Urban Waste management (Guntur) Limited	Kondaveedu village,Guntur,Andhra Pradesh
5.	Installation of 120 kWe Gasifier systems by M/s. Aditya Agro Foods	Village-Mirzapur, Post- Bangpur, Thana-Parbalpur, Dist.- Nalanda, Bihar
6.	Installation of 200 kWe Biomass Gasifier systems by M/s. Kisan Rice Mill	Parbalpur Dist.- Nalanda, Bihar
7.	Installation of 1000kWth Gasifier systems by M/s. Pal Food Product	Village & PO-- Banjetia-2, Dist. Murshidabad, West Bengal
8.	Installation of 360kWth Gasifier systems by M/s. Madhabi Puffed Rice	Village & PO- Banjetia-2, Dist. Murshidabad, West Bengal
9.	Installation of 144kWeBiomass Gasifier system by M/s. Amit Traders	Vill. Harihara, Post- Marihan, Dist. Mirzapur Uttar Pradesh