

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO-3750
ANSWERED ON-18.03.2021

STATUS OF RENEWABLE ENERGY PROJECTS

3750. SHRI CHANDESHWAR PRASAD

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

- (a) the details of on-going renewable energy projects in the country, State-wise including Bihar;
- (b) the details of under-constructed projects, their capacity and the time by which these are likely to start generating electricity, State-wise; and
- (c) the steps already taken by the Government in this regard?

ANSWER

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

(a) The state-wise and source-wise details of commissioned renewable energy capacity (excluding large hydro capacity) in the country, including in Bihar are given in **Annexure-I**.

(b) The details of under-construction renewable energy projects (excluding large hydro projects) in the country and their expected date of commissioning are given in **Annexure-II**.

(c) The steps taken by the Government to promote generation from renewable energy sources in the country include:

- permitting Foreign Direct Investment (FDI) up to 100 percent under the automatic route,
- 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,
- fiscal incentives such as accelerated depreciation, Goods and Services Tax (GST) at lower rates, concessional custom duty etc,
- 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 on 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 under the Green Energy Corridor Scheme for evacuation of renewable power,
- notification of standards for deployment of solar photovoltaic system/devises,
- 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.

Annexure-I referred in reply to part (a) of the Lok Sabha Unstarred question no 3750 on the subject “Status of Renewable Energy Projects” to be answered on 18/3/2021.

State-wise installed capacity of Grid Interactive Renewable Power as on 28.02.2021.						
Sl. No.	STATES / UTs	Small Hydro Power	Wind Power	Bio-Power	Solar Power	Total Capacity
		(MW)	(MW)	(MW)	(MW)	(MW)
1	Andhra Pradesh	162.11	4096.65	506.83	3996.50	8762.09
2	Arunachal Pradesh	131.105		0.00	5.61	136.72
3	Assam	34.11		2.00	42.99	79.10
4	Bihar	70.70		124.70	159.51	354.91
5	Chhatisgarh	76.00		244.90	252.48	573.38
6	Goa	0.05		0.34	7.44	7.83
7	Gujarat	78.94	8306.42	77.30	4068.30	12530.96
8	Haryana	73.50		211.86	407.83	693.19
9	Himachal Pradesh	936.11		9.20	42.73	988.04
10	Jammu & Kashmir	185.98			20.73	206.71
11	Jharkhand	4.05		4.30	48.63	56.98
12	Karnataka	1280.73	4912.60	1888.30	7346.85	15428.48
13	Kerala	230.02	62.50	2.27	257.00	551.79
14	Madhya Pradesh	99.71	2519.89	122.75	2463.22	5205.57
15	Maharashtra	379.58	5000.33	2596.99	2289.97	10266.87
16	Manipur	5.45			6.36	11.81
17	Meghalaya	32.53		13.80	0.12	46.45
18	Mizoram	36.47			1.53	38.00
19	Nagaland	30.67			1.00	31.67
20	Odisha	88.63		59.22	401.72	549.57
21	Punjab	173.55		484.20	947.10	1604.85
22	Rajasthan	23.85	4326.82	121.25	5472.58	9944.50
23	Sikkim	52.11			0.07	52.18
24	Tamil Nadu	123.05	9431.54	1019.05	4403.48	14977.12
25	Telangana	90.87	128.10	205.90	3936.36	4361.23
26	Tripura	16.01			9.41	25.42
27	Uttar Pradesh	49.10		2117.26	1667.50	3833.86
28	Uttarakhand	214.32		130.22	353.41	697.95
29	West Bengal	98.50		319.92	149.84	568.26
30	Andaman & Nicobar	5.25			29.22	34.47
31	Chandigarh				45.16	45.16
32	Dadar & Nagar Haveli				5.46	5.46
33	Daman & Diu				40.55	40.55
34	Delhi			52.00	192.97	244.97
35	Lakshwadeep				0.75	0.75
36	Pondicherry				9.33	9.33
37	Others		4.30			4.30
	Total (MW)	4783.06	38789.15	10314.56	39083.71	92970.48

Annexure-II referred in reply to part (b) of the Lok Sabha Unstarred question no 3750 on the subject “Status of Renewable Energy Projects” to be answered on 18/3/2021.

Details of Solar Power Projects under construction in the country

S. No.	Bidding Agency	Name of State/Scheme	Capacity (MW)	(Scheduled) Date of commissioning
1	SECI	ISTS-I	1650	27-03-2021
2		ISTS-II	600	03-03-2022
3		Floating UP under SBD	150	03-02-2022
4		Rajasthan (Non Solar Park, Tranche-I)	750	04-05-2021
5		ISTS-III	1200	07-06-2021
6		ISTS-IV	1150	25-02-2022
7		CPSU Ph-II (Tranche-I)	922	28-02-2022
8		Rajasthan (Non Solar Park, Tranche-II)	610	16-09-2021
9		ISTS-V	480	11-01-2022
10		ISTS-VI	900	25-02-2022
11		CPSU Ph-II Tranche-II	1104	27-04-2022
12	NTPC	Developer mode & ISTS	794	Apr'21
13		EPC Mode	217	up Jan-22
14	NHPC	ISTS	2000	18-04-2022
15	MSEDCL	Maharashtra	348	01-06-2021
16			1000	24-10-2021
17			500	09-08-2021
18			350	16-01-2022
19	GUVNL	Gujarat	300	21-03-2021
20			380	24-04-2021
21			250	24-06-2021
22			500	27-04-2021
23			100	02-10-2021
24			50	04-10-2021
25			350	09-01-2022
26			500	30-07-2022
27	UPNEDA	Uttar Pradesh	266	up to March 21
28			72	28-08-2021
29	UREDA	Uttarakhand	203	31-03-2021
30	Haryana	HPPC	170	19-08-2021
31			241	05-01-2022

2 Details of under construction Wind Power Projects				
S. No.	Name of the project	Awarded Capacity (MW)	Name of Developer	Scheduled Date of completion
1	Tranche II	50	Haroda Wind Energy Private Limited	28/06/2021
2	Tranche II	50	Khatiyu Wind Energy Private Limited	28/06/2021
3	Tranche II	50	Vigodi Wind Energy Private Limited	28/06/2021
4	Tranche II	50	Nani Virani Wind Energy Private Limited	28/06/2021
5	Tranche II	50	Ravapar Wind Energy Private Limited	28/06/2021
6	Tranche III	100	ReNew Wind Energy (AP2) Private Limited	31.08.2021
7	Tranche III	50	ALIENTO WIND ENERGY PRIVATE LIMITED	31.10.2021
8	Tranche III	50	FLURRY WIND ENERGY PRIVATE LIMITED	31.10.2021
9	Tranche III	50	TEMPEST WIND ENERGY PRIVATE LIMITED	31.10.2021
10	Tranche III	50	VUELTA ENERGY PRIVATE LIMITED	31.10.2021
11	Tranche IV	250	Continuum Power Trading (TN) Pvt Ltd	30.04.2021
12	Tranche IV	300	Sprng Renewable Energy Private Limited	28.01.2021
13	Tranche IV	285	Avikiran Solar India Pvt Ltd.	14.08.2021
14	Tranche IV	50	Suswind Power Private Limited	31/10/2021
15	Tranche IV	50	Flutter Wind Energy Private Limited	31/10/2021
16	Tranche IV	50	Adani Renewable Energy (TN) Limited	31/10/2021
17	Tranche IV	50	Adani Renewable Energy (TN) Limited	31/10/2021
18	Tranche IV	50	Adani Renewable Energy (TN) Limited	31/10/2021
19	Tranche IV	50	Adani Renewable Energy (TN) Limited	31/10/2021
20	Tranche IV	50	Adani Renewable Energy (TN) Limited	31/10/2021
21	Tranche IV	50	Adani Renewable Energy (TN) Limited	31/10/2021
22	Tranche V	300	Adani Wind Energy (GJ) Limited	31.10.2021
23	Tranche V	300	Netra Wind Private Limited	28.07.2021
24	Tranche V	300	Sitac Kabini Renewables Private Limited	31.05.2021
25	Tranche VI	150	Adani Wind Energy Kutchh Three Limited	15.08.2021
26	Tranche VI	100	Adani Wind Energy Kutchh Three Limited	15.08.2021
27	Tranche VI	300	Ostro Kannada Power Pvt Ltd	15.08.2021
28	Tranche VI	50.6	Powerica Limited	15.08.2021
29	Tranche VI	274.4	SBESS Services Projecto Two Private Limited	15.08.2021
30	Tranche VI	50	SBESS Services Projecto Two Private Limited	15.08.2021
31	Tranche VI	150	Morjar Windfarm Development Pvt. Ltd.	15.08.2021
32	Tranche VI	125	Zenataris Renewable Energy Private Limited	15.08.2021
33	Tranche VII	200	Betam Wind Energy Private Limited	18.04.2021
34	Tranche VII	50	Ostro Energy Private Limited	18.09.2021
35	Tranche VII	100	Sprng Wind Energy Private Limited	18.09.2021
36	Tranche VII	130	Adani Wind Energy Kutchh Five Limited	18.09.2021
37	Tranche VIII	250.8	CLP India Private Limited	22.04.2022
38	Tranche VIII	190	Avikiran Energy India Private Limited	21.11.2021
39	Tranche IX	500	JSW Solar Ltd	24-12-2022 (24 months from PPA Eff Date)
40	Tranche IX	310	JSW Solar Ltd	24-12-2022 (24 months from PPA Eff Date)
41	Tranche IX	160	Vena Energy Vidyuth Pvt Ltd	24-12-2022 (24 months from PPA Eff Date)

Besides above, following wind power bids have been awarded by State Governments / other CPSUs

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

3 Details of under construction Wind Hybrid Projects

S. No.	Name of the Project	Installed Capacity (MW)	Name of Developer (Bidder)	Scheduled Date of Completion
1	1200MW ISTS-Connected Wind- Solar Hybrid Power Projects (Tranche-I)	195	Mahoba Solar (UP) Private Limited	07-10-21
2	1200MW ISTS-Connected Wind- Solar Hybrid Power Projects (Tranche-I)	195	Mahoba Solar (UP) Private Limited	07-10-21
3	1200MW ISTS-Connected Wind- Solar Hybrid Power Projects (Tranche-I)	150	SBE Renewables Ten Private Limited	07-10-21
4	1200MW ISTS-Connected Wind- Solar Hybrid Power Projects (Tranche-I)	300	SBE Renewables Ten Private Limited	07-10-21
5	1200MW ISTS-Connected Wind- Solar Hybrid Power Projects (Tranche-II)	300	Adani Renewable Energy (Park) Gujarat Limited	15-12-21
6	1200MW ISTS-Connected Wind- Solar Hybrid Power Projects (Tranche-II)	300	Adani Renewable Energy (Park) Gujarat Limited	15-12-21
7	1200MW ISTS-connected Wind Power Projects (Tranche-III)	130	AMP Energy Green Private Limited	31-09-22
8	1200MW ISTS-connected Wind Power Projects (Tranche-III)	600	Adani Renewable Energy Holding Eight Limited	31-09-22
9	1200MW ISTS-connected Wind Power Projects (Tranche-III)	380	ABC Renewable Energy Private Limited	31-09-22

4 Details of under construction projects of Assured Peak Power Supply

1	1200MW ISTS-connected with assured peak power supply in India ISTS-VII	900	Greenko Energies Private limited	01-03-22
2	1200MW ISTS-connected with assured peak power supply in India ISTS-VII	300	Renew Solar Power Private limited	01-03-22

5. Details of under construction Small Hydro Power projects

S No.	Name of project	Capacity (MW)	Estimated Completion Date
1	Kachchh Branch Canal SHP - 3, SSNNL, Gujarat	6.66	17.03.2021
2	Miyagam Branch Canal SHP - 1, SSNNL, Gujarat	2.25	03.03.3021
3	Miyagam Branch Canal SHP – 2, SSNNL, Gujarat	1.5	03.03.3021
4	Miyagam Branch Canal SHP - 4, SSNNL, Gujarat	2.25	30.06.2021
5	Miyagam Branch Canal SHP - 5, SSNNL, Gujarat	2.25	30.04.2021
6	Miyagam Branch Canal SHP - 6, SSNNL, Gujarat	2.25	31.03.2021
7	Sipaha SHP, BHPC, Bihar	1	01.12.2021
8	Dehra SHP, BHPC, Bihar	1	01.12.2021
9	Rampur SHP, BHPC, Bihar	0.25	01.04.2022
10	Natwar SHP, BHPC, Bihar	0.25	01.05.2022

11	Amethi SHP, BHPC, Bihar	0.5	01.10.2021
12	Mathauli SHP, BHPC, Bihar	0.8	01.12.2021
13	Barbal SHP, BHPC, Bihar	1.6	01.12.2022
14	Paharma, BHPC, Bihar	1	01.10.2022
15	Walidad, BHPC, Bihar	0.7	01.05.2022
16	Rajapur, BHPC, Bihar	0.7	01.10.2021
17	Tejpura, BHPC, Bihar	1.5	01.11.2021
18	Chathankottunada , KSEB, Kerala	6	31.03.2021
19	Bhoothanthankettu, KSEB, Kerala	24	31.07.2021
20	Peruvannamuzhy, KSEB, Kerala	6	31.05.2022
21	Poringalkuthu, KSEB, Kerala	24	31.03.2021
22	Upper Kallar, KSEB, Kerala	2	30.04.2021
23	Pazhassi Sagar, KSEB, Kerala	7.5	31.05.2022
24	Ganol SHP, MePGCL, Meghalaya	15	May-22
25	Riangdo, MePGCL, Meghalaya	3	Mar-23
26	Kawlbam, P & E Dept., Mizoram	4	Apr-21
27	Tlawva SHP, P & E Dept., Mizoram	5	Jun-21
28	Khara, UPJVNL, Uttar Pradesh	1.5	30.06.2021
29	Chatten, SPDCL, Sikkim	3	Dec-21
30	NoiRoi Stage-I, Dept of New and Renewable Energy,Nagaland	0.15	30.04.2021
31	Tsutsung Yongki, Dept of New and Renewable Energy,Nagaland	1	31.03.2021
32	Ponglefo, Dept. of power, Nagaland	1	Dec-21
33	Taksang Chu Nallah SHP, HPDCAPL, Arunachal Pradesh	3.4	30.09.2022
34	Khajalong SHP, DHPD, Arunachal Pradesh	2	31.03.2021
35	Payu MHS at Pinchi river, DHPD, Arunachal Pradesh	1	30.09.2021
36	Pakhan Kha MHS, DHPD, Arunachal Pradesh	0.5	Dec-21
37	Tirru Nallah MHS, DHPD, Arunachal Pradesh	0.1	Dec-21
39	Fure MHP, DHPD, Arunachal Pradesh	0.05	31.12.2021
39	Taksing MHS, DHPD, Arunachal Pradesh	0.1	31.03.2021
40	Tsati MHP, LREDA, UT of Ladakh	0.5	Aug-21
41	Henache MHP, LREDA, UT of Ladakh	0.6	Jun-21
42	Bogdand MHP, LREDA, UT of Ladakh	0.8	Dec-22
43	Chulungkha MHP , LREDA, UT of Ladakh	0.8	Dec-22
44	Khandi SHP, KREDA, UT of Ladakh	1	31.12.2021
45	Raru SHP, KREDA, UT of Ladakh	2	31.12.2021
46	Zunkul SHP , KREDA, UT of Ladakh	2.5	31.12.2021
47	Karnah, JKSPDC, UT of Jammu & Kashmir	12	Sep-23

6 Details of under construction Bio-mass Power projects

S. No.	Project Name	Location	Expected date of completion
1	4.20 MW Biomass cogeneration project by Sukhjait Starch, Malda, West Bengal	WBDIC Growth Centre, N. H. – 34, Narayanpur, Malda – 732141, West Bengal	31.03.2021
2	5 MW Biomass cogeneration project by Suchi Paper Mills limited	589/2, Bisrakh Road Industrial Area, Chhapraula, Gautam Budh Nagar, Uttar Pradesh	31.03.2021

3	12 MW bagasse cogeneration project by TANGEDCO on BOOT Model	Dharmapuri District Coop. Sugar Mills Ltd., Palacode, Thimannahali, 636208, Tamil Nadu	31.03.2021
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	31.03.2021
5	15 MW bagasse cogeneration project by TANGEDCO on BOOT Model	Kallakurichi -I Coop.Sugar Mills Ltd., Moongilthuraipattu 605702, Sankarpuram, Tamil Nadu	31.09.2021
6	15 MW bagasse cogeneration project by TANGEDCO on BOOT model	M.R. Krislnamurthy Coop. Sugar Mills Ltd., 9 Sethiathope, Chidambaram - 608702, Tamil Nadu	31.09.2021
7	15 MW bagasse cogeneration project by TANGEDCO on BOOT model	Salem Coop. Sugar Mills Ltd., Mohanpur - 637015, Tamil Nadu	31.09.2021
8	15 MW bagasse cogeneration project by TANGEDCO on BOOT model	Subramaniya Siva Coop. Sugar MiII Ltd., Alapuram - 636904, Gopalapuram,Pappireddaratti, Tamil Nadu	31.09.2021

7 Details of under construction Waste to Energy projects

Sr. No.	Project	Location of Plant	Expected/ Scheduled date of commissioning
1.	5628kg/day capacity BioCNG project by M/s Shri Hari BioCNG & Fertilizer LLP	District-Bharuch, Gujarat	28-02-2021
2.	5600 kg/day capacity BioCNG project by M/s PS Green GAS	Khataaulli, Muzzafarnagar, Uttar Pradesh	31-01-2021
3.	4200kg/day BioCNG plant by M/s Amrit Fertilizers	Bada Gaon Road, Village Kunjpura,Distt. Karnal, Haryana	01-09-2021
4.	15MW power plant based on MSW by M/s Jindal Urban Waste management (Guntur) Limited	Kondaveedu village,Guntur,Andhra Pradesh	31-01-2021
5.	Installation of 120 kWe Gasifier systems by M/s. Aditya Agro Foods	Village-Mirzapur, Post- Bangpur, Thana-Parbalpur, Dist.- Nalanda, Bihar	17.03.2021
6.	Installation of 200 kWe Biomass Gasifier systems by M/s. Kisan Rice Mill	Parbalpur Dist.- Nalanda, Bihar	19.03.2021
7.	Installation of 1000kWth Gasifier systems by M/s. Pal Food Product	Village & PO-- Banjetia-2, Dist. Murshidabad, West Bengal	30.03.2021
8.	Installation of 360kWth Gasifier systems by M/s. Madhabi Puffed Rice	Village & PO- Banjetia-2, Dist. Murshidabad, West Bengal	05.06.2021
9.	Installation of 144kWeBiomass Gasifier system by M/s. Amit Traders	Vill. Harihara, Post- Marihan, Dist. Mirzapur Uttar Pradesh	05.06.2021