

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**LOK SABHA**  
**UNSTARRED QUESTION NO-4920**  
ANSWERED ON-25.03.2021

**INCREASE IN CAPACITY OF RENEWABLE ENERGY PROJECTS**

+4920. SHRI RANJEETSINGH HINDURAO NAIK NIMBALKAR  
SHRI BHAGIRATH CHOUDHARY

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

- (a) whether the Government has undertaken any survey in order to increase the capacity of new and renewable energy projects in the country especially in the States of Rajasthan and Gujarat and if so, the details thereof;
- (b) the details of projects sanctioned during the last three years and the current year in the said State, district-wise;
- (c) the total expenditure incurred by the Government to initiate/co-start such projects along with the technical and financial assistance given thereto;
- (d) whether the Government is aware of the fact that some unemployed youth and skilled persons are keen to set up solar power units in the country, especially in Rajasthan and Gujarat and if so, the details thereof; and
- (e) the details of the steps being taken by the Government to provide technical and financial assistance to such youth and skilled persons during the last three years?

**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 details of estimated renewable energy potential identified for various renewable energy sources in the country including the States of Rajasthan & Gujarat are given in **Annexure-I**. MNRE has taken several measures to facilitate development and deployment of renewable energy including in Rajasthan and Gujarat.
- (b) As per information provided by Rajasthan Renewable Energy Corporation Ltd and Gujarat Energy Development Agency, the details of projects sanctioned in the States of Rajasthan and Gujarat during last three years and current year are given in **Annexure-II** and **Annexure-III** respectively.
- (c) The state-wise details of central financial assistance provided to states including the States of Rajasthan and Gujarat for the promotion of renewable energy projects during the last three years and the current year ( upto 15/3/2021) are given in the **Annexure-IV**.
- (d)&(e) The Ministry has launched Suryamitra Skill Development Programme in 2015 to provide skilled manpower for employment in Solar Power Projects. As on date, 47,166 number of Suryamitras have been trained in the Country including in the State of Rajasthan and Gujarat. The yearwise details of trained Suryamitras in the State of Rajasthan & Gujarat during the last three years are given below:

Year	No. of Suryamitras Trained so far in	
	Rajasthan	Gujarat
2017-18	597	335
2018-19	775	550
2019-20	1116	856

The MNRE has constituted a Project Development Cell to handhold and facilitate potential entrepreneurs and investors in RE sectors.

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**Annexure I**

Annexure-I referred to in reply to part (a) of Lok Sabha Unstarred Question No. 4920 for 25/3/2021 regarding 'Increase in Capacity of Renewable Energy Projects'.

**“Source and State-wise details of estimated potential of Renewable Energy in MW”**

Sl. No.	STATES / Uts	Wind Power	Wind Power	Small Hydro Power	Bio-Energy			Solar
					Biomass Power	Bagasse Cogeneration	Waste To Energy	
		(MW) @ 100m	(MW) @ 120m	(MW)	(MW)	(MW)	(MW)	(MW)
1	Andhra Pradesh	44229	74906	409.32	578	300	123	38440
2	Arunachal Pradesh		274	2064.92	8			8650
3	Assam		246	201.99	212		8	13760
4	Bihar		3650	526.98	619	300	73	11200
5	Chhatisgarh	77	348	1098.20	236		24	18270
6	Goa	1	8	4.70	26			880
7	Gujarat	84431	142560	201.97	1221	350	112	35770
8	Haryana		419	107.40	1333	350	24	4560
9	Himachal Pradesh		151	3460.34	142		2	33840
10	Jammu & Kashmir (including Ladakh)		3	1707.45	43			111050
11	Jharkhand		0	227.96	90		10	18180
12	Karnataka	55857	124155	3726.49	1131	450		24700
13	Kerala	1700	2311	647.15	1044		36	6110
14	Madhya Pradesh	10484	15404	820.44	1364		78	61660
15	Maharashtra	45394	98213	786.46	1887	1250	287	64320
16	Manipur		0	99.95	13		2	10630
17	Meghalaya		1	230.05	11		2	5860
18	Mizoram		0	168.90	1		2	9090
19	Nagaland		0	182.18	10			7290
20	Orissa	3093	8346	286.22	246		22	25780
21	Punjab		278	578.28	3172	300	45	2810
22	Rajasthan	18770	127756	51.67	1039		62	142310
23	Sikkim		0	266.64	2			4940
24	Tamil Nadu	33800	68750	604.46	1070	450	151	17670
25	Telangana	4244	24835	102.25				20410
26	Tripura		0	46.86	3		2	2080
27	Uttar Pradesh		101	460.75	1617	1250	176	22830
28	Uttarakhand		54	1664.31	24		5	16800
29	West Bengal	2	1050	392.06	396		148	6260
30	Andaman & Nicobar	8	1277	7.27				0
31	Chandigarh		0				6	0
32	Delhi		0				131	2050
33	Lakshwadeep	8	31					0
34	Pondicherry	153	382				3	0
35	Others						1022	790
	Total	302251	695509	21133.62	17536	5000	2554	748990

**Annexure II**

Annexure-II referred to in reply to part (b) of Lok Sabha Unstarred Question No. 4920 for 25/3/2021 regarding 'Increase in Capacity of Renewable Energy Projects'.

Details of projects sanctioned in the State of Rajasthan during last three years and current year ( as provided by Rajasthan Renewable Energy Corporation Ltd.

<b>Projects awarded by Maharashtra State Electricity Distribution Co. Limited (MSEDCL)(Phase-II)</b>			
<b>S. No.</b>	<b>Name of Company</b>	<b>Capacity (MW)</b>	<b>Location</b>
1.	M/S Avaada Sunace Power Private Limited	350 MW	Noorsar, Loonkaransar, Bikaner
2.	M/S Renew Sun Bright Private Limited	300 MW	Mandhopura, Fatehgarh, Jaisalmer
3.	M/s ACME Heergarh Powwertech Private Limited	300 MW	Bap, Jodhpur
		<b>950 MW</b>	
<b>Projects awarded by NHPC Limited</b>			
1.	M/s Altra Xergi Power Private Limited (02 Power)	380 MW	Jodhpur
2.	M/s Avaada Sunrays Energy Private Limited	320 MW	Village-Nokhda, Tehsil-Kolayat, Bikaner
		<b>700 MW</b>	
<b>Projects awarded by Tata Power Mumbai Distribution in Maharashtra State</b>			
1.	Tata Power Renewable Energy Limited	150 MW	Village-Chhayari & GovindSinghPura, Pokaran, Jaisalmer
<b>Projects awarded by Haryana Power Purchase Centre(HPPC)</b>			
1.	M/S Avaada RJHN Private Limited	240 MW	Village-Noorsar, Bikaner
		<b>240 MW</b>	
<b>Projects awarded by SECI for 750 MW in State Specific bidding mr Discoms (RPO (TrancheI)</b>			
1.	M/s Pali Marwar Solar Project Private Limited	40MW (2X20 MW)	Sheo, Barmer
2.	M/S ACME Aklera Power Technology Private Limited	250 MW	Bhinajpura, Bonada, Kardaspura, Tehsil-Pokaran, Jaisalmer
3.	M/s SITARA Solar Energy Private Limited	100 MW	Jodhpur
4.	M/s Fortum Solar Plus Private Limited	250 MW	Jaisalmer
		<b>750 MW</b>	
<b>Projects awarded by SECI for 750 MW in State Specific bidding for Discorm s(RPO) (Tranche-II)</b>			
1.	NTPC Limited	160 MW	NSCL-Jetsar, Ganganagar
2.	Azure Power Maple Private Limited	70 MW	NA
3.	Mahindra Susten Pvt. Ltd	200 MW	Village-khari Charnan, Tehsil: Kolayat, District: Bikaner
4.	Clean Solar Power (KONCH) Private Limited	250 MW	400 KV, Jaisalmer-2
		<b>680 MW</b>	
<b>Projects awarded by SECI for 1070 MW in State Specific Bidding for Discoms (RPO)(Tranche-III)</b>			
1.	M/s NTPC Rcticwahle Energy Limited	150 MW	Bikaner
2.	M/s NTPC Rcticwahle Energy Limited	320 MW	Jaisalmer
3.	M/s AEW India North One Private Limited	200 MW	Jaisalmer
4.	M/S Green Infra Renewble Project Limited	400 MW	Jaisalmer
		<b>1070 MW</b>	
<b>Projects awarded by SECI in ISTS bidding and have got registered their projects in Rajasthan</b>			

1.	M/ S Azure Power Forty Three Projects Limited	600 MW	Kasturiya, Loonkaransar, Bikaner
2.	M/s Mahindra Renewable Pvt. Ltd.	250 MW	Bap, Jodhpur
3.	M/s Azure Power Maple Private Limited	300 MW	Bap, Jodhpur
4.	M/ S SBSR Power Cleantech Eleven Private Limited	300 MW	Hapasar, Loonkaransar, Bikaner
5.	M/s Ayana Renewable Power One Private Limited	300 MW	Kichiyān village, Bikaner
6.	M/s Azure Power Forty One Private Ltd.	300 MW	Jodhpur
7.	M/s SBE Renewables Ten Private Limited	280 MW (Hybrid) (Solar Component)	Village- Rivdi, Tehsil- Fatehgarh, Jaisalmer
8.	M/s SBE Renewables Ten Private Limited	140 MW (Hybrid) (Solar Component)	Village- Rivdi, Tehsil- Fatehgarh, Jaisalmer
9.	M/s Renew Solar Energy (Jharkhand Three) Private Limited	300 MW	Jaisalmer
10.	M/s Avanda Sustainable RJ Project Private Limited	300 MW	Noorsar, Loonkaransar, Bikaner
11.	M/s Eden Renewable Cite Private Limited	300 MW	Village-Sanawara, TehsilPokaran, Jaisalmer
12.	M/s SBE Renewables Sixteen Private Limited	150 MW	ESIJCRL Park
13.	M/s SBE Renewables Sixteen Private Limited	180 MW	Devikot, Jaisalmer
14.	M/S Renew Sun Waves Private Limited(Jharkhand Four)	300 MW	Mandhopura, Fatehgarh, Jaisalmer
15.	M/ s Renew Solar Urja Private Limited	300 MW	Jaisalmer
16.	SBE Renewable Fifteen Private Limited	300 MW	Village-Badisid, Tehsil- Rap, Jodhpur
17.	SBE Renewable Fifteen Private Limited	300 MW	village Kalyan Singh Ki Sid, Tehsil Bap, District Jodhpur
18.	M/s Adani Green Energy Four Limited	2000 MW	Village-Adroyi, Kotha, Digri, Setorai & Adbala, Tehsil-Fatehgarh, District-Jaisalmer
19.	M/S Clean Solar Power (Jodhpur) Private Limited	250 MW	Village-Kushalaram Ki Basti, Ismail Khan Ki Dhani & Dedasari, Tehsil-Bap, Jodhpur
20.	M/S Thar Surya 1 Private Limited	300 MW	Village-Dholera, Bikaner
21.	M/s AMP Energy Green Four Pvt Ltd	100 MW	Village-Badisid, Jodhpur
22.	M/s AMP Energy Green Five Pvt Ltd	100 MW	Village-Badisid, Jodhpur
23.	M/s Gorbea Solar Private Limited(Solar Pack)	300 MW	Village-Badisid, Jodhpur
24.	Mfs ACME Dhaulpur Powertech Pvt. Ltd.	300 MW	Village-Sanawara, TehsilPokaran, Jaisalmer
25.	M/s Adani Renewable Energy Holding Four Limited	1500 MW	Village-mohangarh, Pohad, & Rehrund, Jaisalmer
26.	M/s Adani Renewable Energy Holding Four Limited	1000 MW	Bandha and Siyambar, Jaisalmer
27.	M/s Adani Green Energy Limited	3000 MW	Village- Naga, Kakab, Naago ki Dhani, Tejapala, Bada, Seuwa

			& Hada, Jaisalmer
28.	ACME Phalodi Solar Energy Private Limited	300 MW	Sanawada, Jaisalmer
29.	ACME Raisar Solar Power Private Limited	300 MW	Sanawada, Jaisalmer
30.	ACME Deoghar Solar Power Private Limited	300 MW	Sanawada, Jaisalmer
31.	RENEW SURYA VIHAAN PRIVATE LIMITED	200 MW	Jaisalmer
32.	RENEW SURYA VIHAAN PRIVATE LIMITED	100 MW	Jaisalmer
33.	RENEW SURYA AAYAN PRIVATE LIMITED	300 MW	Jaisalmer
<b>Projects awarded by SECI under CPSU Scheme and have got registered their projects in Rajasthan</b>			
1.	M/s NTPC Limited	150 MW (CPSU Scheme, Ph-II, Tr.-I)	Village Devikot, Tehsil- Fatehgarh, District- Jaisalmer
2.	M/s NTPC Limited	90 MW (CPSU Scheme, Ph-II, Tr.-II)	Village Devikot & Kehar Fakir Ki Dhani, Tehsil-Patehgarh, District Jaisalmer
3.	M/s NTPC Limited	296 MW (CPSU Scheme, Ph-II, Tr.-II)	AREPRL Fatehgarh Solar Power Park
4.	M/s NTPC Limited	300 MW (CPSU Scheme, Ph-II, Tr.-I)	Village- Pathero ki Dhani & Shambhu ki Burj, Tehsil-Kolayat, Bikaner
5.	M/s NTPC Limited	250 MW (CPSU Scheme, Ph-II, Tr.-II)	Bikaner
6.	M/s NTPC Limited	300 MW (CPSU Scheme, Ph-II, Tr.-II)	Bikaner
<b>Projects awarded by NTPC in ISTS bidding and have got registered their projects in Rajasthan</b>			
1.	M/s SB Energy Six Pvt. Ltd	300 MW	Phalodi/Pokaran (ESIJCRL Park)
2.	M/s SB Energy Six Pvt. Ltd	300 MW	Phalodi/Pokaran (ESIJCRL Park)
<b>Project installed by NTPC in Nokh Solar Park</b>			
1.	NTPC Limited	245 MW	Jaisalmer
2.	NTPC Limited	245 MW	Jaisalmer
3.	NTPC Limited	245 MW	Jaisalmer
4.	Rising Sun Energy (K) Private Limited	190 MW	Jaisalmer
<b>Status of the Hybrid projects</b>			
<b>Projects selected through SECI bidding</b>			
S. No.	Name of Company	Capacity (MW)	Location
1.	ADANI GREEN ENERGY EIGHTEEN LIMITED	390	Jaisalmer
2.	ADANIGREENENERGYSEVEN LIMITED	300	Jaisalmer
3.	ADANI GREEN ENERGY NINE LIMITED	700	Jaisalmer
4.	RSEPL HYBRID POWER ONE LIMITED	300	Jaisalmer
5.	ADANI RENEWABLE ENERGY HOLDING FOURTEEN LIMITED	600	Jaisalmer

Annexure-III referred to in reply to part (b) of Lok Sabha Unstarred Question No. 4920 for 25/3/2021 regarding 'Increase in Capacity of Renewable Energy Projects'.

**Details of projects sanctioned in the State of Gujarat during last three years and current year ( as provided by Gujarat Energy Development Agency)**

<b>Details of Solar Power Project Sanctioned during Last Three Years</b>		
<b>Sr. No.</b>	<b>District</b>	<b>Project Capacity (MW)</b>
1	Ahmedabad	22.77
2	Amreli	4.74
3	Anand	96.18
4	Aravalli	167.55
5	Banaskantha	407.26
6	Bharuch	136.59
7	Bhavnagar	126.91
8	Botad	4.01
9	Devbhumi Dwarka	2.05
10	Gandhinagar	4.24
11	Girsomnath	2.57
12	Jamnagar	101.87
13	Junagadh	3.94
14	Khambhat	0.70
15	Kheda	50.77
16	Kutch	397.76
17	Mahisagar	1.30
18	Mehsana	1.00
19	Morbi	62.73
20	Narmada	1.00
21	Patan	389.23
22	Rajkot	28.48
23	Sabarkantha	152.64
24	Surat	11.65
25	Surendranagar	604.25
26	Tapi	0.10
27	Vadodara	10.72

<b>Details of Solar Power Project Sanctioned during Current Year (2020-21)</b>		
<b>Sr. No.</b>	<b>District</b>	<b>Project Capacity (MW)</b>
1	Amreli	50.00
2	Anand	75.00
3	Aravalli	2.00
4	Banaskantha	100.00
5	Bharuch	3.76
6	Bhavnagar	10.00
7	Botad	30.00
8	Devbhumi Dwarka	0.90
9	Jamnagar	14.88
10	Kutch	8.38
11	Mehsana	2.50
12	Morbi	4.85
13	Rajkot	6.85
14	Sabarkantha	8.23
15	Surendranagar	5.97

<b>Details of Wind Power Project Sanctioned during Last Three Years</b>		
<b>Sr. No.</b>	<b>District</b>	<b>Project Capacity (MW)</b>
1	Amreli	86
2	Bhavnagar	73.9
3	DevBhumi Dwarka	52.7
4	Jamnagar	413
5	Kutch	48.55
6	Morbi	137.5
7	Patan	8
8	Porbandar	2.1
9	Rajkot	94.2
10	Surendranagar	73.7

<b>Details of Wind Power Project Sanctioned during Current year(2020-21)</b>		
<b>Sr. No.</b>	<b>District</b>	<b>Project Capacity (MW)</b>
1	Amreli	37.4
2	Morbi	16.8
3	Patan	2
4	Rajkot	53.3

Apart from the above, one Biomass Power plant has been sanctioned in the Rajkot district during the last three year having capacity of 12 MW.

Annexure-IV referred to in reply to part (c) of Lok Sabha Unstarred Question No. 4920 for 25/3/2021 regarding 'Increase in Capacity of Renewable Energy Projects'.

(Rs in Crore)

State-wise and Year-wise details of amount released as central Financial Assistance					
S No.	State / UT Name	2017-18	2018-19	2019-20	2020-21 (upto 15/3/2021)
1	MAHARASHTRA	43.12	147.38	55.94	69.4
2	LAKSHADWEEP	3.97	0	0	0
3	TELANGANA	26.26	18.67	28.17	23.12
4	JAMMU AND KASHMIR	16.12	85.84	21.39	4.89
5	PUNJAB	4.42	30.04	22.23	20.93
6	RAJASTHAN	103.14	64.52	88.6	58
7	KERALA	44.02	20.73	3.57	12.37
8	ARUNACHAL PRADESH	45.16	5.94	24.07	1.66
9	TRIPURA	2.73	0.22	12.98	4.52
10	NAGALAND	11.49	2.39	16.55	0
11	SIKKIM	0.18	2.74	0.05	0
12	MEGHALAYA	23.28	2.08	4.14	0.95
13	UTTARAKHAND	39.93	0.45	23.99	10.69
14	WEST BENGAL	6.58	4.19	13.38	0
15	HARYANA	2.16	22.39	18.51	30.49
16	GUJARAT	158.89	361.08	124.33	22.19
17	ANDAMAN AND NICOBAR ISLANDS	3.03	0	0	1.01
18	ODISHA	13.55	9.11	11.04	1.12
19	TAMIL NADU	53.5	54.94	55.44	8.58
20	MANIPUR	6.65	0	16.86	14.59
21	DADRA AND NAGAR HAVELI	0.34	0	0	0
22	CHANDIGARH	2.23	18.76	5.13	0.85
23	CENTRAL AGENCY	1875.77	2684.48	2564.23	1807.13
24	JHARKHAND	5.58	0.99	10.84	16.05
25	UTTAR PRADESH	36.41	37.85	64.33	72.89
26	KARNATAKA	38.21	100.18	16.48	11.45
27	CHHATTISGARH	161.96	95.81	5.16	2.5
28	DELHI	311.45	228.25	11.63	55.07
29	ANDHRA PRADESH	138.32	213.15	30.66	62.23
30	ASSAM	24.86	0.2	33.29	3.11
31	MIZORAM	21.47	7.89	16.12	1.88
32	HIMACHAL PRADESH	42.3	84.13	32.04	53.34
33	PUDUCHERRY	0.31	0.1	0.79	0
34	GOA	0	0	0	0.08
35	MADHYA PRADESH	442.13	105.01	94.84	22.58
36	Bihar	0	5.26	1.38	1.49
37	Ladakh	0	0	0	9.31