

GOVERNMENT OF INDIA
MINISTRY OF NEW AND RENEWABLE ENERGY
LOK SABHA
UNSTARRED QUESTION NO. 3666
ANSWERED ON 10.08.2023

SOLAR PROJECTS UNDER SECI

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

- (a) the details of solar projects undertaken by Solar Energy Cooperation of India Limited (SECI) along with their respective locations and installed capacities;
- (b) the percentage of India's total solar energy capacity that is contributed by SECI's projects
- (c) the total solar power generation achieved through SECI's projects during the last fiscal year;
- (d) the quantum of solar power distributed through the national grid and to other consumers;
- (e) the details of direct and indirect jobs that have been created through SECI's solar projects;
- (f) the initiatives taken by SECI to benefit local communities and encourage their participation in the said sector;
- (g) the steps taken/being taken by SECI to ensure smooth grid integration of solar power and address grid stability concerns; and
- (h) the manner in which SECI is adapting itself to the growth of solar energy distribution systems in the country?

ANSWER

**THE MINISTER OF NEW & RENEWABLE ENERGY AND POWER
(SHRI R.K. SINGH)**

- (a) Details of solar projects installed with Solar Energy Corporation of India's (SECI) own investment and installed through SECI's tariff/VGF based competitive bids are at **Annexure-I**.
- (b) The percentage of India's current total solar energy capacity that is contributed by SECI's projects is around 18.3%.
- (c) During the year 2022-23, the power generated through SECI's own projects was 35.7 million units (MU) and power generated by projects installed under SECI's tariff/VGF based competitive bids was 23207 MU.
- (d) The total solar power traded by SECI from projects installed under SECI's tariff/VGF based competitive bids in the last 9 years i.e. from 2014-15 to 2022-23 is 70898 MU.

- (e) Based on the total solar project capacity installed by SECI, it is estimated that approximately 45,000 direct and full time equivalent jobs have been created through its Solar projects.

(f) SECI has established transparent and competitive bidding mechanisms which have resulted in RE tariffs being discovered lower than the Average Power Purchase Cost (APPC) of most of the DISCOMs across the country and resulting in supply of affordable power to local communities across the States. SECI has also participated in implementing the Solar Rooftop programmes which has seen large-scale participation from local start-ups and MSMEs.

SECI has also implemented other initiatives for decentralized solar applications, which have benefited the local communities and some of the significant ones are as follows:-

- Empanelment of vendors for setting up of more than 6 lakh Solar Pumps under PM-KUSUM Scheme (Component-B)
- Selection of vendor for 5 lakh Solar Urja Lamp Kits on behalf of IIT Bombay
- Electrification of 1058 Off-Grid villages in Arunachal Pradesh through 300kWp Solar power packs under Deen Dayal Upadhyay Gram Jyoti Yojana
- Installation of 100 Solar Street lights and 50 fox lights in the fringe area of Karikot village in Katerniaghat wildlife sanctuary in Uttar Pradesh

(g) Request for Selection (RfS) document of SECI provides detailed technical specifications for solar power plants and these plants must conform to the latest edition of IEC/ equivalent Indian Standards. The developers also have to follow the Indian Electricity Grid Codes and relevant central/state government regulations for interconnecting their solar plant with the respective grids.

(h) SECI continues to play a crucial role in the growth of distributed generation of Solar. SECI has been one of the implementation agencies for various rooftop programs of MNRE since 2013. As Central Nodal Agency for Grid Connected Roof Top Phase –II, SECI has disbursed, approximately Rs. 117 Cr. to more than 20,000 beneficiaries through the National Solar Rooftop Portal since its launch. It has also disbursed a total amount of Rs. 1607 Cr. to the various DISCOMs as incentives as well as CFA for further onward disbursement to vendors. SECI has also invited bids for development of Rooftop Solar Projects for institutions and organizations under Ministry of Home Affairs (MHA), under which 16.48 MW capacity has been allocated. SECI had also called the bids for empanelment of vendors for 6 Lakh Solar Pumps under PM-KUSUM (Component-B) and has disbursed more than Rs. 838 Cr. to the various implementing agencies.

Annexure in reply to part (a) of the Lok Sabha unstarred Question No. 3666 to be answered on 10.08.2023 regarding “Solar projects under SECI”

Details of Solar Projects installed with SECI’s own investment are as under:-

S. No.	Project	Location	Capacity (MW)
1	10 MW Solar PV Project	Badi Sid Rajasthan	10
2	1 MW Rooftop Solar Power Project	Andaman & Nicobar Islands	1
3	10 MW Solar PV project	DRDO Kolar premises, Karnataka	10

Details of Solar Projects installed under SECI scheme tenders are as under:-

S. No.	Developer Name	District	State	Installed Capacity (MW)
1	Fortum Finnsurya Energy Pvt. Ltd.	Ujjain	Madhya Pradesh	10
2	Gujarat State Electricity Corporation Ltd.	Charanka	Gujarat	10
3	Gujarat Power Corporation Ltd.	Charanka	Gujarat	10
4	SEI Sitara Pvt. Ltd.	Mandsaur	Madhya Pradesh	30
5	SEI L'Volta Pvt. Ltd.	Mandsaur	Madhya Pradesh	20
6	Rishabh Renergy Pvt. Ltd.	Bikaner	Rajasthan	10
7	SEI Suryalabh Pvt. Ltd.	Jodhpur	Rajasthan	30
8	RDA Energy Pvt. Ltd.	Bhilwara	Rajasthan	10
9	Palimarwar Solar Project Pvt Ltd.	Pokhran	Rajasthan	10
10	Clean Solar Power (Dhar) Pvt. Ltd.	Ratlam	Madhya Pradesh	10
11	Clean Solar Power (Dhar) Pvt. Ltd.	Ratlam	Madhya Pradesh	10
12	Clean Solar Power (Dhar) Pvt. Ltd.	Ratlam	Madhya Pradesh	10
13	Welspun Solar UP Pvt. Ltd.	Bikaner	Rajasthan	5
14	Suryauday Solaire Prakash Pvt. Ltd.	Jodhpur	Rajasthan	10
15	Azure Clean Energy Pvt. Ltd.	Jodhpur	Rajasthan	40
16	Vishwaj Energy Pvt. Ltd.	Solapur	Maharashtra	10

17	Malwa Solar Power Generation Private Limited (Formerly Known as IL&FS Energy Development Company Ltd)	Agar	Madhya Pradesh	20
18	Malwa Solar Power Generation Private Limited (Formerly Known as IL&FS Energy Development Company Ltd)	Agar	Madhya Pradesh	20
19	Azure Sunshine Pvt. Ltd.	Jodhpur	Rajasthan	20
20	Azure Green Tech Pvt. Ltd.	Jodhpur	Rajasthan	40
21	Northern Solaire Prakash Pvt. Ltd.	Jodhpur	Rajasthan	20
22	Eden Renewable Ranji Private Limited (Previously known as Ranji Solar Energy Private Limited)	Jodhpur	Rajasthan	20
23	Eden Mumbai Solar Private Limited (Previously Known as ACME Mumbai Power Private Limited)	Jodhpur	Rajasthan	20
24	Eden Solar Energy Gurgaon Private Limited (Previously Known as ACME Gurgaon Power Private Limited)	Jodhpur	Rajasthan	20
25	Medha Energy Pvt. Ltd.	Jodhpur	Rajasthan	20
26	Eden Solar Rajdhani Private Limited (Previously Known as ACME Rajdhani Power Private Limited)	Jodhpur	Rajasthan	20
27	Sharda Construction and Corporation Pvt. Ltd.	Latur	Maharashtra	10
28	Focal Photovoltaic India Pvt. Ltd.	Mandsaur	Madhya Pradesh	10
29	Focal Renewable Energy Two India Pvt. Ltd.	Mandsaur	Madhya Pradesh	10
30	Focal Energy Solar One India India Pvt. Ltd.	Mandsaur	Madhya Pradesh	20
31	Waaneep Solar Pvt. Ltd.	Sehore	Madhya Pradesh	50
32	Karnataka Power Corporation Ltd.	Malavalli	Karnataka	10
33	Sunil Hitech Solar (Dhule) Pvt. Ltd.	Solapur	Maharashtra	5
34	Swelect Energy Systems Ltd.	Tiruchirapalli	Tamil nadu	10

35	Iron Triangle Limited (Formerly known as Backbone Enterprises Ltd.)	Kutch	Gujarat	10
36	Enersan Power Pvt. Ltd.	Kutch	Gujarat	10
37	Laxmi Diamond Pvt. Ltd.	Pali	Rajasthan	10
38	Today Green Energy Pvt. Ltd.	Jaisalmer	Rajasthan	10
39	Today Green Energy Pvt. Ltd.	Jaisalmer	Rajasthan	10
40	Today Green Energy Pvt. Ltd.	Jaisalmer	Rajasthan	10
41	Today Green Energy Pvt. Ltd.	Jaisalmer	Rajasthan	10
42	Today Green Energy Pvt. Ltd.	Jaisalmer	Rajasthan	10
43	Green Energy Development Corporation of Odisha Ltd.	Boudh	Odisha	20
44	Azure Power Mars Pvt. Ltd.	Jaisalmer	Rajasthan	5
45	Bhageria Industries Ltd.	Ahmednagar	Maharashtra	30
46	Talettutayi Solar Projects Four Private Limited	Beed	Maharashtra	50
47	Orange Renewable Power Private Limited	Jalna,	Maharashtra	50
48	Orange Renewable Power Private Limited	Jalna	Maharashtra	50
49	Sepset Constructions Limited	Nagpur	Maharashtra	20
50	Sepset Constructions Limited	Nagpur	Maharashtra	20
51	Krishna Windfarms Developers Pvt. Ltd.	Ahmednagar	Maharashtra	10
52	NVR Mahasolar Private Limited (formerly, NVR Solar Pvt Ltd)	Beed	Maharashtra	50
53	CLP Wind Farms (India) Private Limited (Previously as Gale Solarfarms Private limited)	Dhule	Maharashtra	50
54	CLP Wind Farms (India) Private Limited (Previously as Tornado Solarfarms Private Limited)	Dhule	Maharashtra	20
55	IPTPS, New Delhi-3 MW Solar PV Project of Azure Power India Pvt. Ltd.	New Delhi	Delhi	1
56	Enviro Solaire private Limited	Mirzapur	Uttar Pradesh	75
57	RattanIndia Solar 2 Limited	Allahabad	Uttar Pradesh	50
58	Azure Power Uranus Private Limited-(OFC Bhandara)	Bhandara	Maharashtra	2
59	Azure Power Uranus Private Limited-(OFB Ambajari)	Nagpur	Maharashtra	5
60	FRV Andhra PradeshSolar Farm-I Private Limited	Kadapa	Andhra Pradesh	50

61	FRV India Solar Park-II Private Limited	Kadapa	Andhra Pradesh	50
62	ACME Karnal Solar Power Private Limited	Kadapa	Andhra Pradesh	50
63	ACME Hisar Solar Power Private Limited	Kadapa	Andhra Pradesh	50
64	ACME Bhiwadi Solar Power Private Limited	Kadapa	Andhra Pradesh	50
65	Tata Power Renewable Energy Limited	Kadapa	Andhra Pradesh	50
66	Tata Power Renewable Energy Limited	Kadapa	Andhra Pradesh	50
67	Azure Power Thirty Six Private limited	Kadapa	Andhra Pradesh	50
68	Clean Solar Power (Gulbarga) Private Limited	Tumkur	Karnataka	30
69	Clean Solar Power (Gulbarga) Private Limited	Bellary	Karnataka	40
70	Clean Solar Power (Gulbarga) Private Limited	Bidar	Karnataka	40
71	Clean Solar Power (Gulbarga) Private Limited	Raichur	Karnataka	40
72	Clean Solar Power (Gulbarga) Private Limited	Raichur	Karnataka	50
73	J K Petroenergy Pvt. Ltd.	Davangere	Karnataka	10
74	Solitaire Powertech Private Limited	Chitradurga	Karnataka	30
75	Energon Soleq Ravi India Power Resources Pvt. Ltd.	Belgaum	Karnataka	100
76	ACME Koppal Solar Energy Private Limited	Kalaburagi	Karnataka	40
77	ACME Kaithal Solar Energy Private Limited	Bidar	Karnataka	40
78	ACME Babadham Solar Energy Private Limited	Raichur	Karnataka	40
79	ACME Vijayapura Solar Energy Private Limited	Bidar	Karnataka	40
80	Talettutayi Solar Projects One Private Limited	Koppal	Karnataka	30
81	Wardha Solar (Maharashtra) Private Limited	Bidar.	Karnataka	50
82	Wardha Solar (Maharashtra) Private Limited	Bidar	Karnataka	50
83	Wardha Solar (Maharashtra) Private Limited	Chamarajanagara	Karnataka	50

84	Wardha Solar (Maharashtra) Private Limited	Chamarajanagara	Karnataka	50
85	Wardha Solar (Maharashtra) Private Limited	Kalaburgi	Karnataka	40
86	Wardha Solar (Maharashtra) Private Limited	Koppal	Karnataka	10
87	Wardha Solar (Maharashtra) Private Limited	Yadgir	Karnataka	50
88	Wardha Solar (Maharashtra) Private Limited	Vijyapura	Karnataka	40
89	Wardha Solar (Maharashtra) Private Limited	Vijyapura	Karnataka	10
90	Karnataka Power Corporation Ltd.	Haveri	Karnataka	10
91	Parampujya Solar Energy Pvt. Ltd.	Koppal	Karnataka	40
92	Tata Power Renewable Energy Limited	Satara	Maharashtra	30
93	Parampujya Solar Energy Private Limited	Parbhani	Maharashtra	20
94	Parampujya Solar Energy Pvt. Ltd.	Bametara & Durg	Chattisgarh	50
95	Parampujya Solar Energy Pvt. Ltd.	Bametara	Chattisgarh	50
96	Azure Power Venus Pvt. Ltd.	Jalaun	Uttar Pradesh	40
97	UP Mehrauni - I Urja Private Limited	Lalitpur	Uttar Pradesh	40
98	UP Mehrauni - II Urja Private Limited	Lalitpur	Uttar Pradesh	40
99	UP Sarila Urja Private Limited	Hamirpur	Uttar Pradesh	40
100	UP Koraun Urja Private Limited	Allahabad	Uttar Pradesh	40
101	Gujarat Industries Power Company Limited (P1)	Patan	Gujarat	40
102	Gujarat Industries Power Company Limited (P3)	Patan	Gujarat	40
103	Astra Solren Private Limited	Patan	Gujarat	40
104	Orange Charanka Solar Energy Private Limited	Patan	Gujarat	40
105	Renew Solar Energy (Karnataka Two) Private Limited	Patan	Gujarat	40
106	Astra Solren Private Limited	Patan	Gujarat	25
107	Tata Power Renewable Energy Limited (P6) - DCR	Patan	Gujarat	25
108	Jyoti Solar Solutions Pvt Ltd	Balangir	Odisha	10
109	Sadipali Solar Private Limited	kalahandi	Odisha	20

110	Vento Energy Infra Private Limited	Nabarangpur	Odisha	40
111	Vento Power Private Limited	Balangir	Odisha	40
112	Dakshin Odisha Urja Private Limited	Patangarh	Odisha	40
113	Vento Power Infra Private Limited	Balangir	Odisha	40
114	Vento Power Projects Private Limited	Kalahandi	Odisha	40
115	Vento Power & Energy Limited	Kalahandi	Odisha	40
116	Vijay Printing Press Pvt. Ltd.	Solapur	Maharashtra	10
117	Solar Edge Power and Energy Private Limited	Beed	Maharashtra	50
118	Solar Edge Power and Energy Private Limited	Jalgaon	Maharashtra	50
119	Solar Edge Power and Energy Private Limited	Beed	Maharashtra	30
120	LREHL Renewable India SPV 1 Private Limited	Solapur	Maharashtra	50
121	JBM Solar Energy Maharashtra Private Limited	jalna	Maharashtra	60
122	JBM Solar Power Maharashtra Private Limited	jalna	Maharashtra	40
123	Sukhbir Agro Energy Ltd.	Solapur	Maharashtra	10
124	Sukhbir Agro Energy Ltd.	Solapur	Maharashtra	10
125	Fermi Solarfarms Private Limited	Jalgaon	Maharashtra	20
126	Fermi Solarfarms Private Limited	Jalgaon	Maharashtra	20
127	Fermi Solarfarms Private Limited	Jalgaon	Maharashtra	20
128	Fermi Solarfarms Private Limited	Jalgaon	Maharashtra	20
129	MH Parbhani Power Private Limited	Prabhani	Maharashtra	40
130	Flexirural Urja Jalgaon Limited	Prabhani	Maharashtra	20
131	ACME Jodhpur Solar Power Private Limited	Jodhpur	Rajasthan	100
132	ACME Rewa Solar Energy Private Limited	Jodhpur	Rajasthan	100
133	SB Energy One Private Limited	Jodhpur	Rajasthan	100
134	SB Energy One Private Limited	Jodhpur	Rajasthan	100
135	SB Energy One Private Limited	Jodhpur	Rajasthan	100
136	SB Energy Three Private Limited	Jodhpur	Rajasthan	50

137	SB Energy Three Private Limited	Jodhpur	Rajasthan	50
138	Clean Sustainable Energy Pvt Ltd	Jodhpur	Rajasthan	50
139	Clean Sustainable Energy Pvt Ltd	Jodhpur	Rajasthan	50
140	Phelan Energy India RJ Private Limited	Jodhpur	Rajasthan	50
141	Hero Solar Energy Pvt. Ltd.	Jodhpur	Rajasthan	100
142	Hero Solar Energy Pvt. Ltd.	Jodhpur	Rajasthan	100
143	Hero Solar Energy Pvt. Ltd.	Jodhpur	Rajasthan	100
144	SBE Four Limited	Jodhpur	Rajasthan	100
145	SBE Four Limited	Jodhpur	Rajasthan	100
146	Azure Power India Pvt Ltd.	Jodhpur	Rajasthan	50
147	Azure Power India Pvt Ltd.	Jodhpur	Rajasthan	50
148	Azure Power India Pvt Ltd.	Jodhpur	Rajasthan	50
149	Azure Power India Pvt Ltd.	Jodhpur	Rajasthan	50
150	Renew Solar Power Pvt. Ltd.	Jodhpur	Rajasthan	50
151	Avaada Clean Energy Private Limited-(OFC Kanpur)	Kanpur	Uttar Pradesh	5
152	SBG Cleantech Projectco Five Private Limited	Tumkur	Karnataka	50
153	SBG Cleantech Projectco Five Private Limited	Tumkur	Karnataka	50
154	SBG Cleantech Projectco Five Private Limited	Tumkur	Karnataka	50
155	SBG Cleantech Projectco Five Private Limited	Tumkur	Karnataka	50
156	Kilaj Solar (Maharashtra) Pvt. Ltd	Jodhpur	Rajasthan	50
157	Azure Power Forty Three Private Limited	Bikaner	Rajasthan	300
158	Azure Power Forty Three Private Limited	Bikaner	Rajasthan	300
159	Mahindra Renewables Private Limited	Jodhpur	Rajasthan	250
160	Clean Solar Power (Jodhpur) Private Limited	Jodhpur	Rajasthan	250
161	ReNew Solar Energy (Jharkhand Five) Pvt. Ltd	Jaisalmer	Rajasthan	110
162	Fortum Solar Plus Pvt. Ltd.	Jaisalmer	Rajasthan	250
163	Palimarwar Solar House Pvt. Ltd.	Jaisalmer	Rajasthan	20
164	Palimarwar Solar House Pvt. Ltd.	Jaisalmer	Rajasthan	20
165	Sitara Solar Energy Pvt. Ltd.	Jodhpur	Rajasthan	100

166	SBSR Power Cleantech Eleven Pvt. Ltd.	Bikaner	Rajasthan	150
167	ReNew Solar Energy (Jharkhand Four) Pvt. Ltd.	Fatehgarh	Rajasthan	300
168	Eden Renewable Cite Private Limited	Fatehgarh	Rajasthan	300
169	Azure Power Forty One Pvt. Ltd.	Jodhpur	Rajasthan	300
170	Renew Solar Energy (Jharkhand Three) Pvt. Ltd.	Fatehgarh	Rajasthan	300
171	Ayana Renewables Power Pvt Ltd.	Bikaner	Rajasthan	300
172	Azure Power Maple Pvt. Ltd.	Jodhpur	Rajasthan	300
173	Mega SuryaUrja Pvt. Ltd.	Bikaner	Rajasthan	250
174	GRT Jewellers (India) Pvt. Ltd.	Thoothukkudi	Tamil Nadu	150
175	ReNew Solar Urja Private Limited	Jaisalmer	Rajasthan	300
176	Avaada Sustainable RJProject Private Limited	Bikaner	Rajasthan	300
177	Masaya Solar Energy Private Limited	Khandwa	Madhya Pradesh	150
178	Thar Surya 1 Pvt. Ltd.	Bikaner	Rajasthan	300
179	The Singareni Collieries Company limited	Various of Areas of SCCL	Telangana	90
180	Delhi Metro Rail Corporation Limited	Delhi	Delhi	3
181	NTPC Limited	Bikaner	Rajasthan	539
182	NTPC Limited	Thoothukkudi	Tamil Nadu	230
183	Mahindra Susten Private Limited	Bikaner	Rajasthan	200
184	NTPC Limited	Sri Ganga Nagar	Rajasthan	160
185	Clean Solar Power (Bhainsada) Private Limited	Jaisalmer	Rajasthan	250
186	NTPC Limited	Jaisalmer	Rajasthan	296
187	NTPC Limited	Surat	Gujarat	56
188	NTPC Limited	Bharuch	Gujarat	20
189	NTPC Limited	Bikaner	Rajasthan	150
190	NTPC Limited	Bikaner	Rajasthan	90
191	NTPC Limited	Bikaner	Rajasthan	161
192	The Singareni Collieries Company Limited	Mancherial	Telangana	5
193	ACME Aklera Power Technology Pvt. Ltd	Badmer	Rajasthan	200
Total				13023