



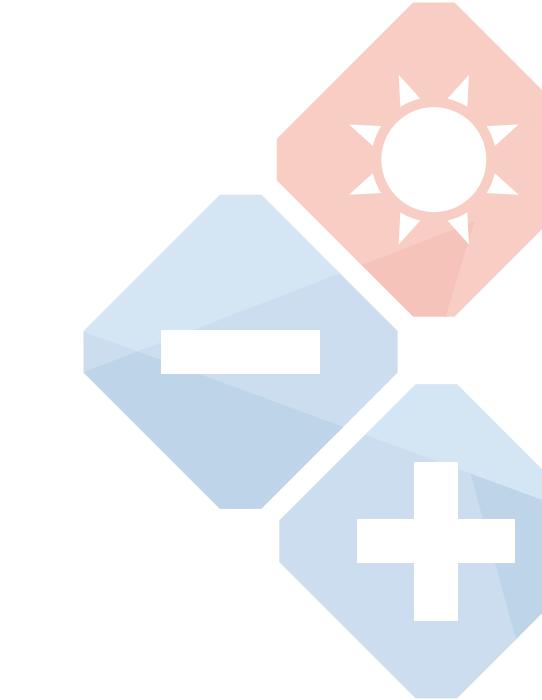
INDIA

SOLAR SUPPLY CHAIN MAP

Q4 2024

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ABOUT US

Since 2009, Sinovoltaics, a Dutch-German solar PV and BESS technical compliance and quality assurance service firm has been a pioneer in the solar photovoltaic and BESS industries.

With our AI-based SELMA software and industry leading Zero Risk Solar® guarantee, our mission is to eliminate all PV & BESS product defects, enabling investors and the world to succeed with minimal investment risks.

We have inspection teams located in Mainland China, Vietnam, Thailand, India, Türkiye, and the United States. They are ready to visit your supplier factory.

INTRODUCTION

Sinovoltaics Solar Supply Chain Maps

Dive into the heart of the solar industry, exploring the latest maps showcasing existing and future solar module manufacturers alongside their critical suppliers in solar cells, wafers, ingots, and polysilicon.

Key Features:

- **Region-Specific Maps:** Tailored for each thriving solar market - North America, Europe, Southeast Asia, and India.
- **Manufacturer Directory:** Access up-to-date information on solar manufacturers operating in each region. Stay ahead of the curve by understanding the key players in each market.
- **Expansion Tracking:** Stay informed on industry growth with real-time updates on which manufacturers are currently building new facilities.
- **Comprehensive Updates:** Our dedicated team ensures that the solar supply chain maps are refreshed every 4 months, offering the latest information on evolving market dynamics.

Sinovoltaics' Solar Supply Chain Maps empower you with the knowledge needed to navigate the global solar landscape effectively. Download the latest maps now and stay ahead in the race to harness the potential of solar energy.





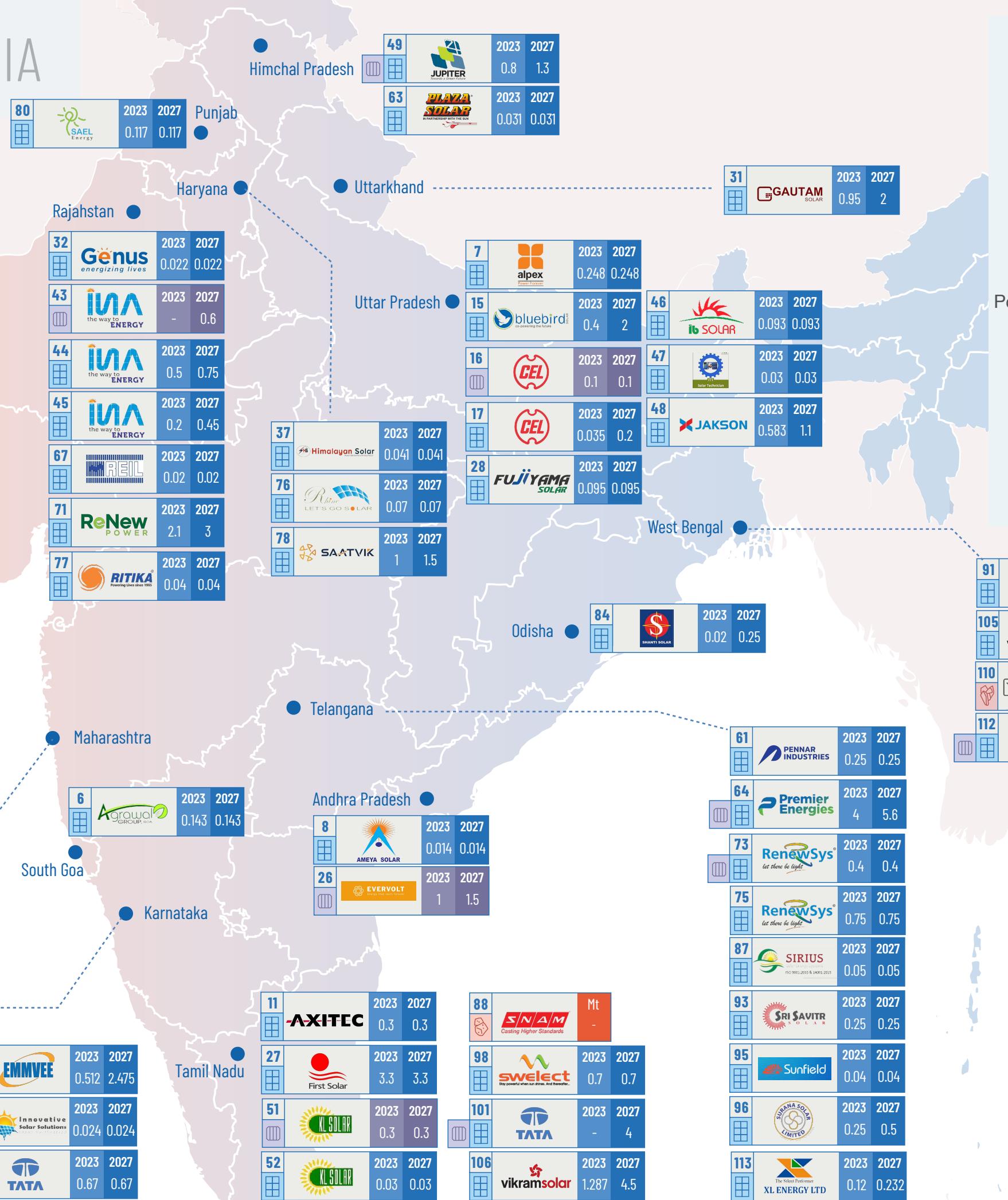
December 1, 2024

Sinovoltaics India Solar Energy Supply Chain Map. Latest India solar PV panel manufacturers & supply chain traceability manufacturing insights Q4 2024:

- This latest version of the Sinovoltaics India Solar Supply Chain Map includes several updates. Avaada Group announced that it will manufacture 3 GW of modules and 5 GW of cells. Additionally, Luxra said it would expand its capacity to 2GW of module production by 2027/2030. We have left out BIPV module manufacturers in this iteration of the map.
- The current market press releases and data indicate that there is 58.4 GW of module capacity currently in India, but an additional 60 GW has been announced by various parties for 2027/2030 (for a total of 119 GW). The expansion is thanks to measures taken under the Make in India and PLI scheme.
- Most of the module production is focused on Passivated Emitter Rear Contact (PERC). However, there is a clear shift towards Tunnel Oxide Passivated Contact (TOPCon). The current nameplate cell production is at 13.6 GW, but announcements look to jump by 47.2 GW in the coming 3 - 5 years for a total of 61.6 GW by 2027/2030. There was 4 GW of Ingot capacity, and public releases indicate a jump to 28 GW by 2027/2030. The larger proportion of manufacturing is currently taking place in Gujarat.

SOLAR SUPPLY CHAIN INDIA

1	AATMANIRBHAR ENERGY FOR NATION	2023	2027	0.1	0.1
2	adani Renewables	Mt 30,000			
3	adani Renewables	2023	2027	4	10
4	adani Renewables	2023	2027	2	10
5	adani Renewables	2023	2027	4	10
9	APS AUSTRALIAN PREMIUM SOLAR	2023	2027	0.25	0.25
12	AXITEC	2023	2027	0.3	0.3
18	CITIZEN SOLAR	2023	2027	0.06	0.18
20	COSMIC	2023	2027	0.07	0.07
21	Credence Solar Panels Private Limited	2023	2027	0.125	0.125
29	FUTURE SOLAR	2023	2027	0.5	1.2
30	Ganesh ELECTRICALS	2023	2027	0.069	0.069
34	GOLDI SOLAR	2023	2027	2.2	3.95
35	GOLDI SOLAR	2023	2027	0.396	2.146
36	GEL GUJARAT FLUOROCHEMICALS	Mt	Mt	-	-
40	INDOSOLAR	2023	2027	0.5	0.5
41	INDOSOLAR	2023	2027	-	-
53	KOSOL ENERGIE	2023	2027	0.143	1.15
55	MUNDRA ENERGY	2023	2027	2.158	2.158
56	MUNDRA ENERGY	2023	2027	1.942	1.942
57	navitasolar	2023	2027	0.5	1.7
58	NEASE	2023	2027	0.028	0.028
60	PAHAL SOLAR	2023	2027	0.8	1.8
62	PIXON Redefining Solar	2023	2027	1	1
66	Raajratna	2023	2027	0.096	0.096
68	RAYZON SOLAR	2023	2027	1	2
74	RenewSys let there be light	2023	2027	0.565	1.565
75	luxra	2023	2027	0.08	2
10	AVAADA	2023	2027	-	3
19	CONTENDRE	2023	2027	0.04	0.04
22	ECE INDIA	2023	2027	0.045	0.045
50	Jyotitech Solar	2023	2027	0.036	0.036
92	Spark Solar	2023	2027	0.042	0.042

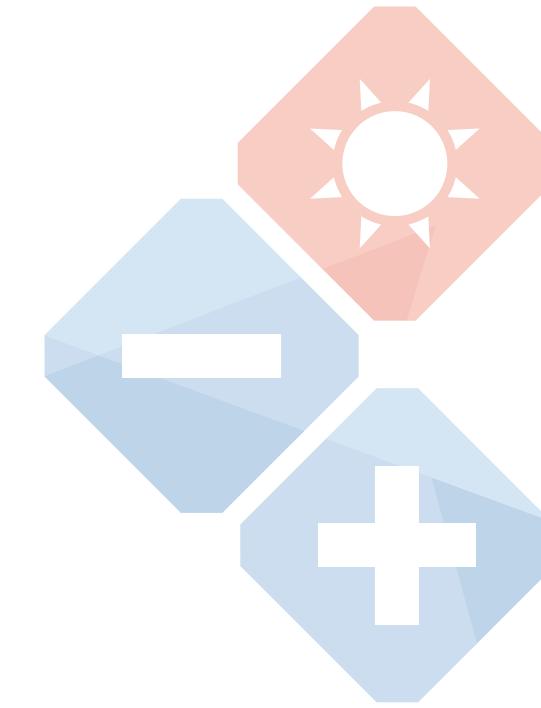


LEGEND					
Module capacity (GWp)					
Cell capacity (GWp)					
Wafer capacity (GWp)					
Ingot					
Polysilicon capacity (GWp)					
MGS (Metric tonnes)					
List of factories from the same State / Territory					
Unknown State / Territory					
14	BHEL	Mt	Mt	-	-
33	GOLDI SOLAR	-	-	5	
38	HINDALCO	Mt	Mt	-	-
39	hindustan semiconductors ltd.	Mt	Mt	-	-
85	SSE SHRI DAI ELECTRICALS LTD	2023	2027	0.5	10
111	WEBEL SOLAR	2023	2027	0.6	0.55

No.	Company name	State/Country	Module		Cell		Wafer		Ingot		Polysilicon		MGS	
			GWp 2023 2027		GWp 2023 2027		GWp 2023 2027		GWp 2023 2027		GWp 2023 2027		GWp 2023 2027	
			2023	2027	2023	2027	2023	2027	2023	2027	2023	2027	2023	2027
1	Aatmanirbhar Solar	Gujarat	0.1	0.1	-	-	-	-	-	-	-	-	-	-
2	Adani Green Energy	Gujarat	-	-	-	-	-	-	-	-	-	30,000	-	-
3	Adani Solar	Gujarat	-	-	4	10	-	-	-	-	-	-	-	-
4	Adani Solar	Gujarat	-	-	-	-	-	-	2	10	-	-	-	-
5	Adani Solar	Gujarat	4	10	-	-	-	-	-	-	-	-	-	-
6	Agrawal Renewable Energy	South Goa	0.143	0.143	-	-	-	-	-	-	-	-	-	-
7	Alpex Solar	Uttar Pradesh	0.248	0.248	-	-	-	-	-	-	-	-	-	-
8	Ameya Solar & Semiconductor	Andhra Pradesh	0.014	0.014	-	-	-	-	-	-	-	-	-	-
9	Australian Premium Solar	Gujarat	0.25	0.25	-	-	-	-	-	-	-	-	-	-
10	Avada Group	Maharashtra	-	3	-	5	-	-	-	-	-	-	-	-
11	Axitec	Tamil Nadu	0.3	0.3	-	-	-	-	-	-	-	-	-	-
12	Axitec	Gujarat	0.3	0.3	-	-	-	-	-	-	-	-	-	-
13	Bharat Heavy Electricals	Karnataka	0.214	0.214	-	-	-	-	-	-	-	-	-	-
14	Bharat Heavy Electricals	/	-	-	-	-	-	-	-	-	3	-	-	-
15	Bluebird Solar	Uttar Pradesh	0.4	2	-	-	-	-	-	-	-	-	-	-
16	Central Electronics	Uttar Pradesh	-	-	0.1	0.1	-	-	-	-	-	-	-	-
17	Central Electronics	Uttar Pradesh	0.035	0.2	-	-	-	-	-	-	-	-	-	-
18	Citizen Solar	Gujarat	0.06	0.18	-	-	-	-	-	-	-	-	-	-
19	Contendre Greenenergy	Maharashtra	0.04	0.04	-	-	-	-	-	-	-	-	-	-
20	Cosmic PV Power	Surat	0.07	0.07	-	-	-	-	-	-	-	-	-	-
21	Credence Solar Panels	Gujarat	0.125	0.125	-	-	-	-	-	-	-	-	-	-
22	ECE Energies	Maharashtra	0.045	0.045	-	-	-	-	-	-	-	-	-	-
23	Emmvee	Bengaluru	-	-	-	1.5	-	-	-	-	-	-	-	-
24	Emmvee	Karnataka	0.671	2.621	-	-	-	-	-	-	-	-	-	-
25	Emmvee	Karnataka	0.512	2.475	-	-	-	-	-	-	-	-	-	-
26	Evervolt Green Energy	Andhra Pradesh	-	-	1	1.5	-	-	-	-	-	-	-	-
27	First Solar	Tamil Nadu	3.3	3.3	-	-	-	-	-	-	-	-	-	-
28	Fujiyama Power Systems	Uttar Pradesh	0.095	0.095	-	-	-	-	-	-	-	-	-	-
29	Future Solar	Karjan	0.5	1.2	-	-	-	-	-	-	-	-	-	-
No.	Company name	State/Country	Module		Cell		Wafer		Ingot		Polysilicon		MGS	
			GWp 2023 2027		GWp 2023 2027		GWp 2023 2027		GWp 2023 2027		GWp 2023 2027		Metric Tonnes 2023	
			2023	2027	2023	2027	2023	2027	2023	2027	2023	2027	2023	2027
30	Ganesh Eletricals	Gujarat	0.069	0.069	-	-	-	-	-	-	-	-	-	-
31	Gautam Solar	Uttarakhand	0.95	2	-	-	-	-	-	-	-	-	-	-
32	Genus Innovation	Rajasthan	0.022	0.022	-	-	-	-	-	-	-	-	-	-
33	Goldi Sun Private	/	-	-	-	5	-	-	-	-	-	-	-	-
34	Goldi Sun Private	Gujarat	2.2	3.95	-	-	-	-	-	-	-	-	-	-
35	Goldi Sun Private	Gujarat	0.396	2.146	-	-	-	-	-	-	-	-	-	-
36	Gujarat Flourochemicals	Gujarat	-	-	-	-	-	-	-	-	10	-	-	-
37	Himalayan Solar	Haryana	0.041	0.041	-	-	-	-	-	-	-	-	-	-
38	Hindalco	/	-	-	-	-	-	-	-	-	-	-	-	-
39	Hindustan Semiconductor Manufacturing Corporation	/	-	-	-	-	-	-	-	-	-	-	-	-
40	IndoSolar	Gujarat	-	-	0.5	0.5	-	-	-	-	-	-	-	-
41	IndoSolar	Gujarat	-	-	-	-	-	-	-	-	-	-	-	-
42	Innovative Solar Solutions	Karnataka	0.024	0.024	-	-	-	-	-	-	-	-	-	-
43	Insolation Energy	Rajasthan	-	-	-	0.6	-	-	-	-	-	-	-	-
44	Insolation Energy	Rajasthan	0.5	0.75	-	-	-	-	-	-	-	-	-	-
45	Insolation Green Energy	Rajasthan	0.2	0.45	-	-	-	-	-	-	-	-	-	-
46	Integrated Batteries India	Uttar Pradesh	0.093	0.093	-	-	-	-	-	-	-	-	-	-
47	ITI	Uttar Pradesh	0.03	0.03	-	-	-	-	-	-	-	-	-	-
48	Jakson Engineers	Uttar Pradesh	0.583	1.1	-	-	-	-	-	-	-	-	-	-
49	Jupiter	Himachal Pradesh	0.8	1.3	0.3	1.3	-	-	-	-	-	-	-	-
50	Jyotitech Solar	Maharashtra	0.036	0.036	-	-	-	-	-	-	-	-	-	-
51	KL Solar	Tamil Nadu	-	-	0.3	0.3	-	-	-	-	-	-	-	-
52	KL Solar	Tamil Nadu	0.03	0.03	-	-	-	-	-	-	-	-	-	-
53	Kosol Energie	Gujarat	0.143	1.15	-	-	-	-	-	-	-	-	-	-
54	Luxra	Maharashtra	0.08	2	-	-	-	-	-	-	-	-	-	-
55	Mundra Solar Energy	Gujarat	2.158	2.158	2	2	1	1	-	-	-	-	-	-
56	Mundra Solar Energy	Gujarat	1.942	1.942	2	2	1	1	-	-	-	-	-	-
57	Navitas Green Solutions	Gujarat	0.5	1.7	-	-	-	-	-	-	-	-	-	-
58	Neety Euro Asia Solar	Gujarat	0.028	0.028	-	-	-	-	-	-	-	-	-	-
59	Novasys Greenenergy	Maharashtra	0.6	1.2	-	-	-	-	-	-	-	-	-	-
60	Pahal Solar	Gujarat	0.8	1.8	-	-	-	-	-	-	-	-	-	-
61	Pennar Industries	Telengana	0.25	0.25	-	-	-	-	-	-	-	-	-	-
62	Pixon Green Energy	Gujarat	1	1	-	1	-	-	-	-	-	-	-	-
63	Plaza Power & Infrastructure	Himachal Pradesh	0.031	0.031	-	-	-	-	-	-	-	-	-	-
64	Premier Energies Photovoltaic	Telengana	4	5.6	2	2	-	-	-	-	-	-	-	-
65	PV Power Technologies	Maharashtra	0.											

No.	Company name	State/Country	Module		Cell		Wafer		Ingot		Polysilicon		MGS	
			GWp 2023 2027		GWp 2023 2027		GWp 2023 2027		GWp 2023 2027		GWp 2023 2027		Metric Tonnes 2023	
88	Snam Abrasives	Tamil Nadu	-	-	-	-	-	-	-	-	-	-	-	-
89	Solarium Green Energy	Gujarat	0.1	0.1	-	-	-	-	-	-	-	-	-	-
90	Solex Energy	Gujarat	0.6	1.2	-	-	-	-	-	-	-	-	-	-
91	Sova Solar	West Bengal	0.85	1	-	-	-	-	-	-	-	-	-	-
92	Spark Solar Technologies	Maharashtra	0.042	0.042	-	-	-	-	-	-	-	-	-	-
93	Sri Savtir Solar	Telengana	0.25	0.25	-	-	-	-	-	-	-	-	-	-
94	Sunbond Energy	Gujarat	0.175	0.175	-	-	-	-	-	-	-	-	-	-
95	SunField Energy	Hyderabad	0.04	0.04	-	-	-	-	-	-	-	-	-	-
96	Surana Solar	/	0.25	0.5	-	-	-	-	-	-	-	-	-	-
97	Suryakamal Energy	Gujarat	0.027	0.027	-	-	-	-	-	-	-	-	-	-
98	Sselect HHV Solar Photovoltaics	Tamil Nadu	0.7	0.7	-	-	-	-	-	-	-	-	-	-
99	Tata Chemicals	Gujarat	-	-	-	-	-	-	-	-	-	-	-	-
100	Tata Power Solar	Karnataka	0.67	0.67	0.53	0.53	-	-	-	-	-	-	-	-
101	Tata Power Solar	Tamil Nadu	-	4	-	4	-	-	-	-	-	-	-	-
102	TopSun Energy	Gujarat	0.15	0.15	-	-	-	-	-	-	-	-	-	-
103	Unique Sun Power	Gujarat	0.043	0.043	-	-	-	-	-	-	-	-	-	-
104	Urjastrot Enterprise	Gujarat	0.4	0.4	-	-	-	-	-	-	-	-	-	-
105	Vikram Solar	West Bengal	1.05	1.5	-	-	-	-	-	-	-	-	-	-
106	Vikram Solar	Tamil Nadu	1.287	4.5	-	-	-	-	-	-	-	-	-	-
107	Waaree Energies	Gujarat	3	3	-	-	-	-	-	-	-	-	-	-
108	Waaree Energies	Gujarat	9	9	-	-	-	-	-	-	-	-	-	-
109	Waaree Energies	Gujarat	-	8	-	11.4	-	6	-	-	-	-	-	-
110	Wacker	West Bengal	-	-	-	-	-	-	-	-	-	-	-	-
111	Webel Solar	/	0.6	0.55	-	-	-	-	-	-	-	-	-	-
112	Websol	West Bengal	0.5	0.5	0.6	1.8	-	-	-	-	-	-	-	-
113	XL Energy	Telengana	0.12	0.232	=	=	-	-	-	-	-	-	-	-
114	Zuvay Technologies	Gujarat	-	-	-	1.6	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-	-	-





ARE YOU A SOLAR MANUFACTURER?

In our next edition of the India Solar Supply Chain Map, we aim at listing how procurement stakeholders can contact each factory.

Do not hesitate to reach out at contact@sinovoltaics.com so we can list your contact details.

Also, if your solar manufacturing project is not listed, or has been updated, please contact us and share your latest ambitions. We will include it in our next release.

SOURCES

The report presents data compiled from various sources, including publications, market reports, manufacturer press releases, and Sinovoltaics' direct relationships with manufacturers. We extend our gratitude to these valuable data contributors.

PV Magazine New Releases

PV Tech News Releases

LinkedIn Posts

Company Websites

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https://www.solarfeeds.com/?catid=60&country=United%20Kingdom&supplied_project=Austria&capacity=52

Call with manufacturers

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