



INDIA

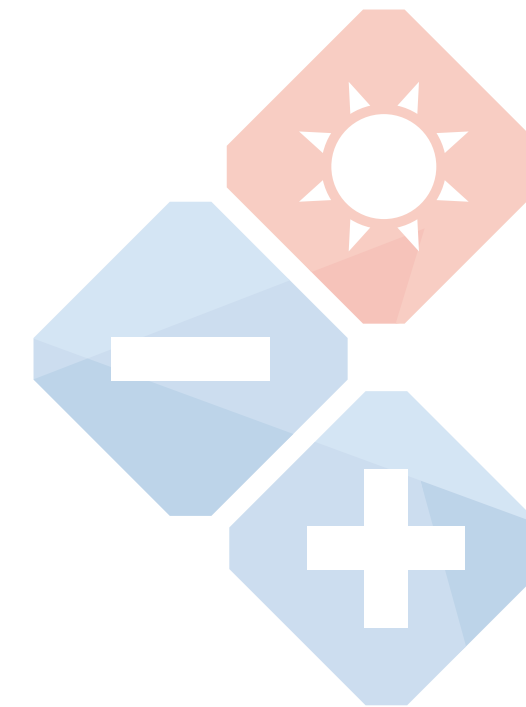
SOLAR SUPPLY CHAIN MAP

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:

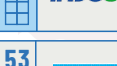
- This latest version of the Sinovoltaics India Solar Supply Chain Map includes several updates. Avaada Group announced that it will manufacture 3 GW of modules and 5 GW of cells. Additionally, Luxra said it would expand its capacity to 2GW of module production by 2027/2030. We have left out BIPV module 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

LEGEND

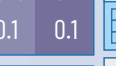
- Module   Module capacity (GWp)
- Cell   Cell capacity (GWp)
- Wafer   Wafer capacity (GWp)
- Ingot 
- Polysilicon   Polysilicon capacity (GWp)
- MGS   MGS (Metric tonnes)

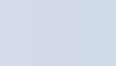
 List of factories from the same State / Territory

1		2023	2027	0.1	0.1
2		Mt	30,000		
3		2023	2027	4	10
4		2023	2027	2	10
5		2023	2027	4	10
9		2023	2027	0.25	0.25
12		2023	2027	0.3	0.3
18		2023	2027	0.06	0.18
20		2023	2027	0.07	0.07
21		2023	2027	0.125	0.125
29		2023	2027	0.5	1.2
30		2023	2027	0.069	0.069
34		2023	2027	2.2	3.95
35		2023	2027	0.396	2.146
36		Mt	Mt		
40		2023	2027	0.5	0.5
41		2023	2027	-	-
53		2023	2027	0.143	1.15
55		2023	2027	2.158	2.158
56		2023	2027	1.942	1.942
57		2023	2027	0.5	1.7
58		2023	2027	0.028	0.028
60		2023	2027	0.8	1.8
62		2023	2027	1	1
66		2023	2027	0.096	0.096
68		2023	2027	1	2
69		2023	2027	0.07	0.07
72		2023	2027	1.2	3
79		2023	2027	1.2	1.5
81		2023	2027	0.1	0.1
82		2023	2027	0.02	0.02
83		2023	2027	0.091	0.091
86		2023	2027	0.05	0.05
89		2023	2027	0.1	0.1
90		2023	2027	0.6	1.2
94		2023	2027	0.175	0.175
97		2023	2027	0.027	0.027
99		Mt	Mt	-	-
102		2023	2027	0.15	0.15
103		2023	2027	0.043	0.043
104		2023	2027	0.4	0.4
107		2023	2027	3	3
108		2023	2027	9	9
114		2023	2027	-	1.6
70		Mt	Mt	-	10
109		2023	2027	-	8

49		2023	2027	0.8	1.3
63		2023	2027	0.031	0.031
80		2023	2027	0.117	0.117

32		2023	2027	0.022	0.022
43		2023	2027	-	0.6
44		2023	2027	0.5	0.75
45		2023	2027	0.2	0.45
67		2023	2027	0.02	0.02
71		2023	2027	2.1	3
77		2023	2027	0.04	0.04

31		2023	2027	0.95	2
7		2023	2027	0.248	0.248
15		2023	2027	0.4	2
16		2023	2027	0.1	0.1
17		2023	2027	0.035	0.2
28		2023	2027	0.095	0.095

84		2023	2027	0.02	0.25
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61		2023	2027	0.25	0.25
64		2023	2027	4	5.6
73		2023	2027	0.4	0.4
75		2023	2027	0.75	0.75
87		2023	2027	0.05	0.05
93		2023	2027	0.25	0.25
95		2023	2027	0.04	0.04
96		2023	2027	0.25	0.5
113		2023	2027	0.12	0.232

91		2023	2027	0.85	1
105		2023	2027	1.05	1.5
110		Mt	Mt	-	-
112		2023	2027	0.5	0.5

10		2023	2027	-	3
19		2023	2027	0.04	0.04
22		2023	2027	0.045	0.045
50		2023	2027	0.036	0.036
54		2023	2027	0.08	2
59		2023	2027	0.6	1.2
65		2023	2027	0.2	0.2
74		2023	2027	0.585	1.585
92		2023	2027	0.042	0.042

13		2023	2027	0.214	0.214
23		2023	2027	-	1.5
24		2023	2027	0.671	2.621
25		2023	2027	0.512	2.475
42		2023	2027	0.024	0.024
100		2023	2027	0.67	0.67

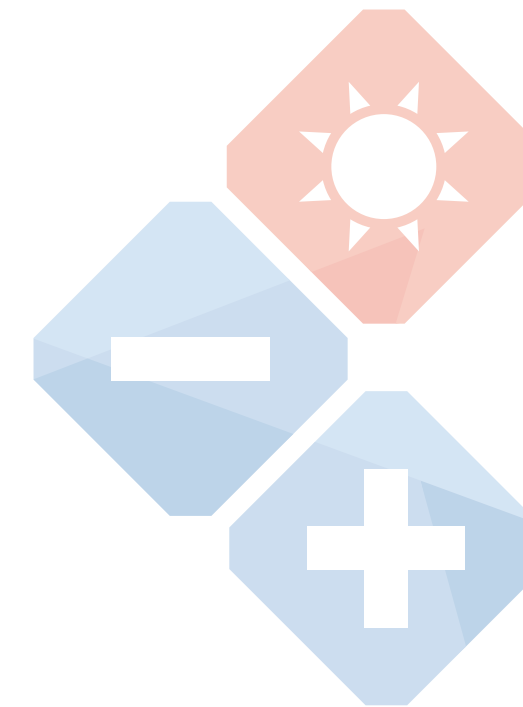
11		2023	2027	0.3	0.3
27		2023	2027	3.3	3.3
51		2023	2027	0.3	0.3
52		2023	2027	0.03	0.03
88		Mt		-	
98		2023	2027	0.7	0.7
101		2023	2027	-	4
106		2023	2027	1.287	4.5

Unknown State / Territory

14		Mt	Mt	-	-
33		2023	2027	-	5
38		Mt	Mt	-	-
39		Mt		-	
85		2023	2027	0.5	10
111		2023	2027	0.6	0.55

No.	Company name	State/Country	Module		Cell		Wafer		Ingot		Polysilicon		MGS
			GWp		GWp		GWp		GWp		GWp		Metric Tonnes
			2023	2027	2023	2027	2023	2027	2023	2027	2023	2027	
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	Telangana	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	Swelect 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	Telangana	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

<https://www.enfsolar.com/directory/panel/monocrystalline?country=187>

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

Call with manufacturers

[https://finance.yahoo.com/news/16-largest-silicon-producers-world-212541541.html?guccounter=1&guce_referrer=aHR0cHM6Ly93d3cuZ29vZ2xILmNvbS8&guce_referrer_sig=AQAAAJhloJ-eDh0MkkSZ6fuAX6Xt7Xs0LSLx84lsCJmupl_mfZsHGHcFXByXISwR2-](https://finance.yahoo.com/news/16-largest-silicon-producers-world-212541541.html?guccounter=1&guce_referrer=aHR0cHM6Ly93d3cuZ29vZ2xILmNvbS8&guce_referrer_sig=AQAAAJhloJ-eDh0MkkSZ6fuAX6Xt7Xs0LSLx84lsCJmupl_mfZsHGHcFXByXISwR2-R4T9CG65hibs9X8vGuZfCwKGtiJFQLtqfdsgGySw75TTdtloCfXBE2hoEB24mwVlyP4Cd_1y_AGbLV2Bv61NvfkEgujZKTN9X3tgk17DgSRP-w)

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<https://emmvee.com/emmvee-breaks-ground-on-new-solar-cell-module-manufacturing-project/>

<https://www.saurenergy.com/solar-energy-blog/indias-top-10-solar-module-manufacturers-based-on-aisma-list>





ELIMINATE RISKS AND GUARANTEE PROJECT ROI

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