



INDIA

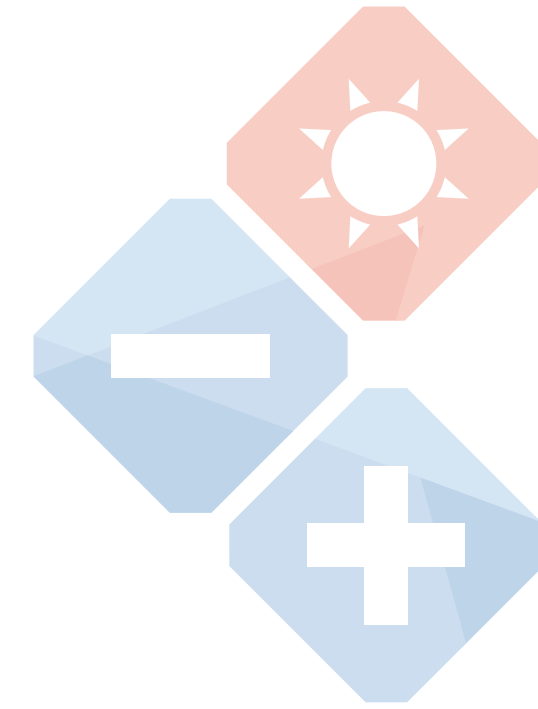
SOLAR SUPPLY CHAIN MAP

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

Module Module capacity (GWp)

Cell Cell capacity (GWp)

Wafer Wafer capacity (GWp)

Ingots

Polysilicon Polysilicon capacity (GWp)

MGS MGS (Metric tonnes)

List of factories from the same Country

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
11	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
28	FUTURE SOLAR	2023	2027	0.5	1.2
29	Ganesh ELECTRICALS	2023	2027	0.069	0.069
33	GOLDI SOLAR	2023	2027	2.2	3.95
34	GOLDI SOLAR	2023	2027	0.396	2.146
35	GFL	Mt	Mt		
39	INDOSOLAR	2023	2027	0.5	0.5
40	INDOSOLAR	2023	2027	-	-
52	KOSOL	2023	2027	0.143	1.15
53	MUNDRA ENERGY	2023	2027	2.158	2.158
54	MUNDRA ENERGY	2023	2027	1.942	1.942
56	NEASE	2023	2027	0.028	0.028
58	PAHAL SOLAR	2023	2027	0.8	1.8
59	PAHAL SOLAR	2023	2027	0.8	1.8
60	PIXON	2023	2027	1	1
64	Raajratna	2023	2027	0.096	0.096
66	RAYZON SOLAR	2023	2027	1	2
67	redren	2023	2027	0.07	0.07
68	Reliance Industries Limited	Mt	Mt		
70	ReNew POWER	2023	2027	1.2	3
72	RenewSys	2023	2027	0.585	1.585
77	SAATVIK	2023	2027	1.2	1.5
79	SOLAR LIMITED	2023	2027	0.1	0.1
81	SASA	2023	2027	0.091	0.091
85	SHIVAM PHOTOVOLTAICS	2023	2027	0.05	0.05
88	SOLARIUM	2023	2027	0.1	0.1
89	SOLEX	2023	2027	0.6	1.2
93	SUNBOND	2023	2027	0.175	0.175
95	Suryakamal	2023	2027	0.027	0.027
97	TATA	Mt	Mt		

48	JUPITER	2023	2027	0.8	1.3
61	PLAZA SOLAR	2023	2027	0.031	0.031
78	SAEL Energy	2023	2027	0.117	0.117

30	GAUTAM SOLAR	2023	2027	0.95	2
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31	Genus energizing lives	2023	2027	0.022	0.022
42	IMA the way to ENERGY	2023	2027	-	0.6
43	IMA the way to ENERGY	2023	2027	0.5	0.75
44	IMA the way to ENERGY	2023	2027	0.2	0.45
65	REIL	2023	2027	0.02	0.02
69	ReNew POWER	2023	2027	2.1	3
75	RITIKA	2023	2027	0.04	0.04

7	alpeX	2023	2027	0.248	0.248
15	bluebirdi	2023	2027	0.4	2
16	CEL	2023	2027	0.1	0.1
17	CEL	2023	2027	0.035	0.2
27	FUJIYAMA SOLAR	2023	2027	0.095	0.095
36	Himalayan Solar	2023	2027	0.041	0.041
74	Rites LET'S GO SOLAR	2023	2027	0.07	0.07
76	SAATVIK	2023	2027	1	1.5

45	ib SOLAR	2023	2027	0.093	0.093
46	ib SOLAR	2023	2027	0.03	0.03
47	JAKSON	2023	2027	0.583	1.1

83	SMART SOLAR	2023	2027	0.02	0.25
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90	SOVA SOLAR	2023	2027	0.85	1
103	vikram solar	2023	2027	1.05	1.5
108	WACKER	Mt	Mt		
110	WEBEL SOLAR	2023	2027	0.5	0.5

59	PENNAH INDUSTRIES	2023	2027	0.25	0.25
62	Premier Energies	2023	2027	4	5.6
71	RenewSys	2023	2027	0.4	0.4
73	RenewSys	2023	2027	0.75	0.75
82	SURANA SOLAR LIMITED	2023	2027	0.25	0.5

8	AMEYA SOLAR	2023	2027	0.014	0.014
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6	Agrowal GROUP	2023	2027	0.143	0.143
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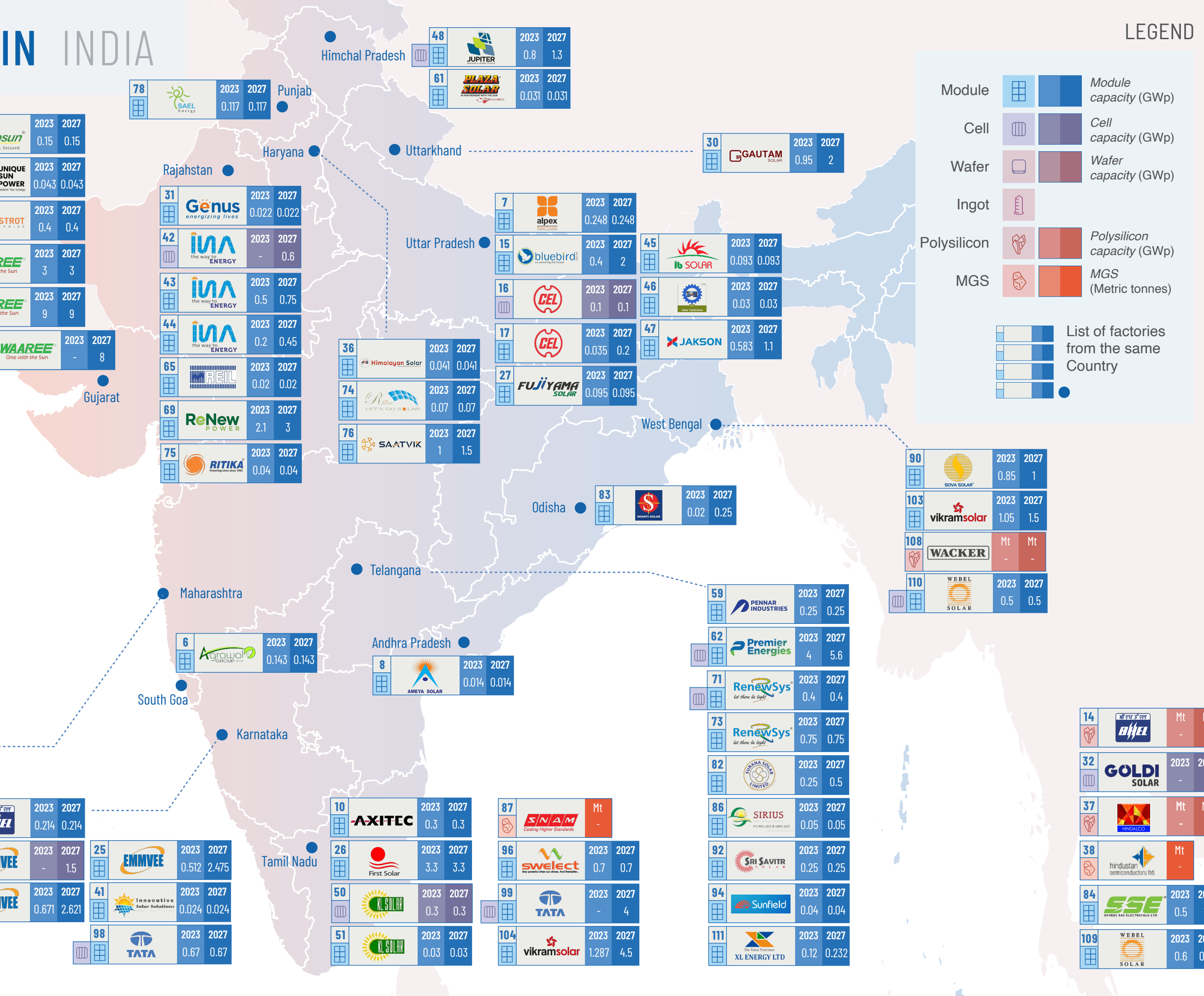
12	luxtra	2023	2027	0.08	2
19	CONTENRE	2023	2027	0.04	0.04
22	ECE INDIA	2023	2027	0.045	0.045
49	Jyotitech Solar	2023	2027	0.036	0.036
57	NOVA Novsys Greenenergy	2023	2027	0.6	1.2
63	PV POWER TECH	2023	2027	0.2	0.2
72	RenewSys	2023	2027	0.585	1.585
91	Spark Solar	2023	2027	0.042	0.042

13	BHEL	2023	2027	0.214	0.214
23	EMMVEE	2023	2027	-	1.5
24	EMMVEE	2023	2027	0.671	2.621
25	EMMVEE	2023	2027	0.512	2.475
41	Innovative Solar Solutions	2023	2027	0.024	0.024
98	TATA	2023	2027	0.67	0.67

10	AXITEC	2023	2027	0.3	0.3
26	First Solar	2023	2027	3.3	3.3
50	KL SOLAR	2023	2027	0.3	0.3
51	KL SOLAR	2023	2027	0.03	0.03
87	SNAM	Mt			
96	swelect	2023	2027	0.7	0.7
99	TATA	2023	2027	-	4
104	vikram solar	2023	2027	1.287	4.5

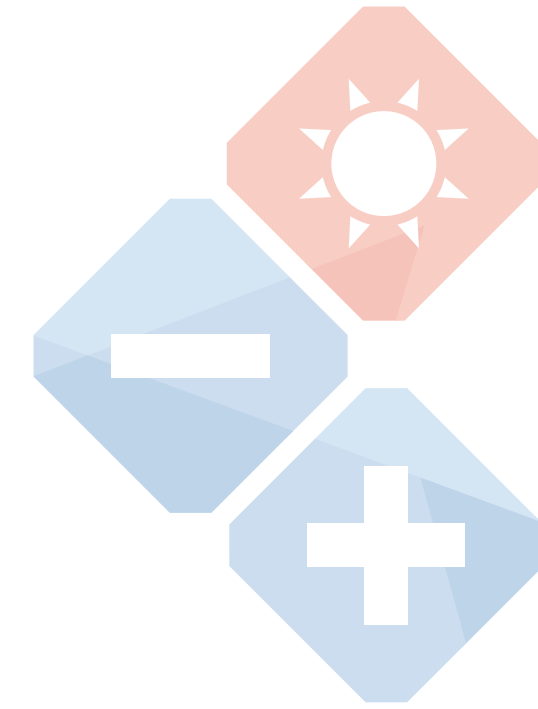
86	SIRIUS	2023	2027	0.05	0.05
92	SRI SAVITR	2023	2027	0.25	0.25
94	Sunfield	2023	2027	0.04	0.04
111	XL ENERGY LTD	2023	2027	0.12	0.232

14	BHEL	Mt	Mt		
32	GOLDI SOLAR	2023	2027	-	5
37	HINDALCO	Mt	Mt		
38	hindustan semiconductors ltd.	Mt			
84	SSE SHREE SAI ELECTRICALS LTD	2023	2027	0.5	10
109	WEBEL SOLAR	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	2023
88	Solarium Green Energy	Gujarat	0.1	0.1	-	-	-	-	-	-	-	-	-
89	Solex Energy	Gujarat	0.6	1.2	-	-	-	-	-	-	-	-	-
90	Sova Solar	West Bengal	0.85	1	-	-	-	-	-	-	-	-	-
91	Spark Solar Technologies	Maharashtra	0.042	0.042	-	-	-	-	-	-	-	-	-
92	Sri Savtir Solar	Telangana	0.25	0.25	-	-	-	-	-	-	-	-	-
93	Sunbond Energy	Gujarat	0.175	0.175	-	-	-	-	-	-	-	-	-
94	SunField Energy	Hyderabad	0.04	0.04	-	-	-	-	-	-	-	-	-
95	Suryakamal Energy	Gujarat	0.027	0.027	-	-	-	-	-	-	-	-	-
96	Swelect HHV Solar Photovoltaics	Tamil Nadu	0.7	0.7	-	-	-	-	-	-	-	-	-
97	Tata Chemicals	Gujarat	-	-	-	-	-	-	-	-	-	-	-
98	Tata Power Solar	Karnataka	0.67	0.67	0.53	0.53	-	-	-	-	-	-	-
99	Tata Power Solar	Tamil Nadu	-	4	-	4	-	-	-	-	-	-	-
100	TopSun Energy	Gujarat	0.15	0.15	-	-	-	-	-	-	-	-	-
101	Unique Sun Power	Gujarat	0.043	0.043	-	-	-	-	-	-	-	-	-
102	Urjastrot Enterprise	Gujarat	0.4	0.4	-	-	-	-	-	-	-	-	-
103	Vikram Solar	West Bengal	1.05	1.5	-	-	-	-	-	-	-	-	-
104	Vikram Solar	Tamil Nadu	1.287	4.5	-	-	-	-	-	-	-	-	-
105	Waaree Energies	Gujarat	3	3	-	-	-	-	-	-	-	-	-
106	Waaree Energies	Gujarat	9	9	-	-	-	-	-	-	-	-	-
107	Waaree Energies	Gujarat	-	8	-	11.4	-	6	-	-	-	-	-
108	Wacker	West Bengal	-	-	-	-	-	-	-	-	-	-	-
109	Webel Solar	/	0.6	0.55	-	-	-	-	-	-	-	-	-
110	Websol	West Bengal	0.5	0.5	0.6	1.8	-	-	-	-	-	-	-
111	XL Energy	Telangana	0.12	0.232	-	-	-	-	-	-	-	-	-
			-	-	-	-	-	-	-	-	-	-	-
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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-](https://finance.yahoo.com/news/16-largest-silicon-producers-world-212541541.html?guccounter=1&guce_referrer=aHR0cHM6Ly93d3cuZ29vZ2xILmNvbS8&guce_referrer_sig=AQAAAJhloJ-eDh0MkkSZ6fuAX6Xt7Xs0LSLx84lsCJmupl_mfZsHGHCfXByXISwR2-)

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ELIMINATE RISKS AND GUARANTEE PROJECT ROI

CONTACT US


USA OFFICE

 5900 Balcones Drive STE 100
TX 78731
Austin, Texas, USA

 +1 404 593 9866


HONG KONG OFFICE

 5 Tai Mong Tsai Road,
Sai Kung, New Territories
Hong Kong SAR, CHINA

 +852 6350 2097


SWITZERLAND OFFICE

 Rue du Liseron 7,
1006 Lausanne, SWITZERLAND

 +41 76 537 61 29

MAINLAND CHINA OFFICE

 4718 Gonghexin Road, Jing'an District,
Shanghai, CHINA

 +86 21 6627 0298


SPAIN OFFICE

 1st Floor, Gran Vía 44,
28013 Madrid, SPAIN

 +34 641 535 140

VIETNAM OFFICE

 94 Xuan Thuy, Thao Dien Ward District 2,
Ho Chi Minh City, VIETNAM

 +84 89 8455 4455

 contact@sinovoltaics.com