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Canadian Solar launches 5GW TOPCon module assembly plant in Texas

By [Jonathan Touriño Jacobo](https://www.pv-tech.org/author/jonathan-tourinojacob/) (<https://www.pv-tech.org/author/jonathan-tourinojacob/>)

June 12, 2024

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Canadian Solar's Texas plant has already shipped its first US-made TOPCon modules earlier this year. Image: Thomas Koerner via LinkedIn.

Module manufacturer Canadian Solar has inaugurated its first production facility in the US with a 5GW TOPCon module assembly plant.

Located in Mesquite, Texas, the project was [unveiled last year with an investment of US\\$250 million](https://www.pv-tech.org/canadian-solar-to-build-first-solar-pv-manufacturing-facility-in-the-us/) (<https://www.pv-tech.org/canadian-solar-to-build-first-solar-pv-manufacturing-facility-in-the-us/>) from the Chinese manufacturer. According to a post on LinkedIn by Thomas Koerner, corporate senior vice president at Canadian Solar, the plant has 1,500 employees.

Production of modules at the Texas plant started in the fourth quarter of 2023, with the company in the process of ramping up production to reach full nameplate capacity by the end of the year, a spokesperson from Canadian Solar told *PV Tech*.

Shipments from the facility had already started earlier this year when the company [shipped its first US-made 700Wp TOPCon modules](https://www.pv-tech.org/canadian-solar-delivers-first-us-made-topcon/) (<https://www.pv-tech.org/canadian-solar-delivers-first-us-made-topcon/>)

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[modules-to-distributor-signature-solar/](#)) to solar distributor Signature Solar.

This is not the company's only solar facility in the US. It is currently building a 5GW solar cell production facility (<https://www.pv-tech.org/canadian-solar-adds-5gw-cell-manufacturing-capacity-to-us-expansion-plans/>) in Jeffersonville, Indiana that aims to supply the Texas module assembly plant.

Moreover, ahead of the inauguration this week, Canadian Solar recently secured a supply agreement for its US-made bifacial TOPCon TOPBiHiKu7 modules with solar energy firm Sol Systems. However, the capacity to be supplied was not disclosed at the time. The modules are expected to support Sol Systems' US project pipeline from 2024-25.

Earlier this week, the module manufacturer was [among the top 12 manufacturers in Wood Mackenzie's rankings](#) (<https://www.pv-tech.org/chinese-solar-manufactures-dominates-woodmac-rankings/>), with a score of 78.5 out of 100, putting it in fourth place, behind JA Solar, Trina Solar and JinkoSolar. Among the top five Chinese manufacturers – Jinko, Trina Solar, LONGi, JA Solar and Canadian Solar – the company was among the ones that [continued to keep a profit](#) (<https://www.pv-tech.org/reviewing-the-performance-of-chinas-big-five-pv-module-producers/>) (Premium access) in the first quarter of 2024, although at a slower pace than the same period a year earlier.

Canadian Solar quarterly module shipments

Q1 Q2 Q3 Q4



Source: Canadian Solar

During Q1 2024, the company shipped 6.3GW of solar modules, a slight increase by 200MW from the same period a year earlier, whereas in 2023, it shipped over 30GW, as shown in the chart above.

Updated on 13 June to clarify that production had already started in Q4 2023 and the plant will reach full nameplate capacity by end of 2024.

UPCOMING EVENT (/EVENTS-AND-WEBINARS/)

PV CellTech USA 2025

([https://www.pvtechconferences.com/pv-celltech-usa/?](https://www.pvtechconferences.com/pv-celltech-usa/?utm_source=calendar&utm_medium=website&utm_campaign=continual)

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SOLAR MEDIA EVENTS

September 30, 2025
Seattle, USA

EV Infrastructure & Energy Summit
(<https://evinfrastructureenergy.solarenergyevents.com/>)

SOLAR MEDIA EVENTS
October 1, 2025
London, UK

The Electric Vehicle Innovation and Excellence Awards 2025
(<https://evie.solarenergyevents.com/>)

SOLAR MEDIA EVENTS
October 2, 2025
London, UK

Energy Storage Summit Asia 2025
(<https://storageasia.solarenergyevents.com/>)

SOLAR MEDIA EVENTS
October 7, 2025
Manila, Philippines

PV CellTech USA 2025
([https://www.pvtechconferences.com/pv-celltech-usa/?](https://www.pvtechconferences.com/pv-celltech-usa/?utm_source=calendar&utm_medium=website&utm_campaign=continual)

SOLAR MEDIA EVENTS
October 7, 2025
San Francisco Bay Area, USA

7 October 2025

San Francisco Bay Area, USA

PV Tech has been running an annual PV CellTech Conference since 2016. PV CellTech USA, on 7-8 October 2025 is our third PV CellTech conference dedicated to the U.S. manufacturing sector. The events in 2023 and 2024 were a sell out success and 2025 will once again gather the key stakeholders from PV manufacturing, equipment/materials, policy-making and strategy, capital equipment investment and all interested downstream channels and third-party entities. The goal is simple: to map out PV manufacturing in the U.S. out to 2030 and beyond.

MORE INFO

(https://www.pvtechconferences.com/pv-celltech-usa/?utm_source=calendar&utm_medium=website&utm_campaign=continual)

UPCOMING EVENT (/EVENTS-AND-WEBINARS/)

Solar & Storage Finance USA 2025

(https://financeusa.solarenergyevents.com/?utm_source=calendar&utm_medium=website&utm_campaign=continual)

21 October 2025

New York, USA

Returning for its 12th edition, Solar and Storage Finance USA Summit remains the annual event where decision-makers at the forefront of solar and storage projects across the United States and capital converge. Featuring the most active solar and storage transactors, join us for a packed two-days of deal-making, learning and networking.

MORE INFO

(https://financeusa.solarenergyevents.com/?utm_source=calendar&utm_medium=website&utm_campaign=continual)

UPCOMING EVENT (/EVENTS-AND-WEBINARS/)

PV ModuleTech USA 2026

(https://www.pvtechconferences.com/pv-moduletech-usa/?utm_source=calendar&utm_medium=website&utm_campaign=continual)

16 June 2026

Napa, USA

PV Tech has been running PV ModuleTech Conferences since 2017. PV ModuleTech USA, on 16-17 June 2026, will be our fifth PV ModuleTech conference dedicated to the U.S. utility scale solar sector. The event will gather the key stakeholders from solar developers, solar asset owners and investors, PV manufacturing, policy-making and all interested downstream channels and third-party entities. The goal is simple: to map out the PV module supply channels to the U.S. out to 2027 and beyond.

MORE INFO

(https://www.pvtechconferences.com/pv-moduletech-usa/?utm_source=calendar&utm_medium=website&utm_campaign=continual)

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September 30, 2025

Global investor KKR has acquired 50% of a 1.4GW solar portfolio in North American from French oil major TotalEnergies.



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September 30, 2025

VDE Americas' David Devir looks at the origins of the supersized PV glass problem and considers how the industry can return to reliability.

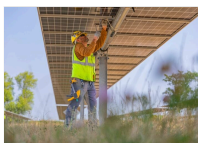


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September 30, 2025

US solar developer Sol Systems has completed construction on a 342MW PV project in the state of Illinois.



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September 29, 2025

Burns & McDonnell examines the outlook of the utility-scale solar sector amidst the latest policy and tariff changes.



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SunPower continues revival with Sunder acquisition (<https://www.pv-tech.org/sunpower-continues-revival-with-sunder-acquisition/>)

September 29, 2025

US solar installer SunPower has taken the next step in its rehabilitation with the acquisition of residential installer Sunder.



(<https://www.pv-tech.org/waaree-ad-cvd-tariff-solar-cells-us-customs/>)

Waaree dismisses US tariff evasion allegations, 'actively working' with CBP (<https://www.pv-tech.org/waaree-ad-cvd-tariff-solar-cells-us-customs/>)

September 29, 2025

Indian solar manufacturer Waaree has said it does not expect to pay additional duties on its solar cell imports to the US, following the start of an antidumping and countervailing duty (AD/CVD) investigation by the US Customs and Border Patrol (CBP).

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