



First Solar: Today

- Western Hemisphere's largest solar manufacturer.
- Differentiated thin film technology designed and developed in America.
- Higher lifetime energy, with lower levelized cost of electricity (LCOE).
- Financially stable with industry leading bankability.
- Lowest carbon PV technology and lowest life cycle environmental footprint.

Series 6 Plus & New Series 7 Modules

Series 6 Pluse



Aluminum under-mount frame

3.3GW ramping to >10GW annual US manufacturing capacity by 2025

Responsible solar manufacturing using fair labor practices

Market-leading Sustainability and cradle-to-cradle recycling

Same proven thin-film CdTe semiconductor with industry-leading warranted degradation rate (0.3%/yr)

40+ Year Useful Design life (Series 6 DNV Class A Durability)

Series 7 TR1.



Dual steel back-rails
Taller module optimized for Tracker
applications

US Manufacturing

Main Campus: PGT1 (Perrysburg, OH – Series 6)



2019: PGT2 (Series 6)



Coming in 2023: PGT3 (Series 7)



The New York Times

First Solar says it will spend up to \$1.2 billion to expand U.S. production.

The solar panel maker will build a factory in the Southeast and expand three Ohio plants, creating nearly 1,000 jobs.

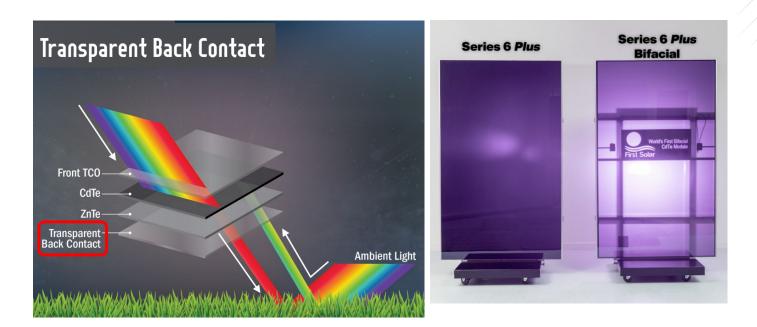
Give this article

This article is part of our Daily Business Briefing



- >10 GW/year of US Mfg. by 2026
- >21 GW/year globally.

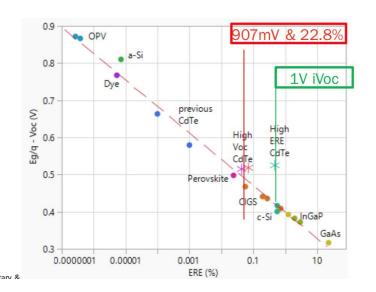
Coming Soon! Bifacial CdTe



- Key Enabler: Transparent Back Contact @ ~theoretical entitlement
- Roadmap to improved bifaciality.

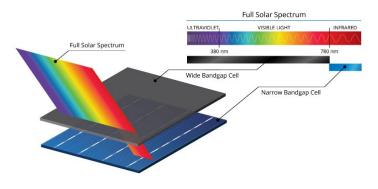
CuRe: Pipeline to 25%

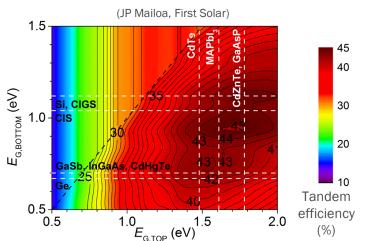


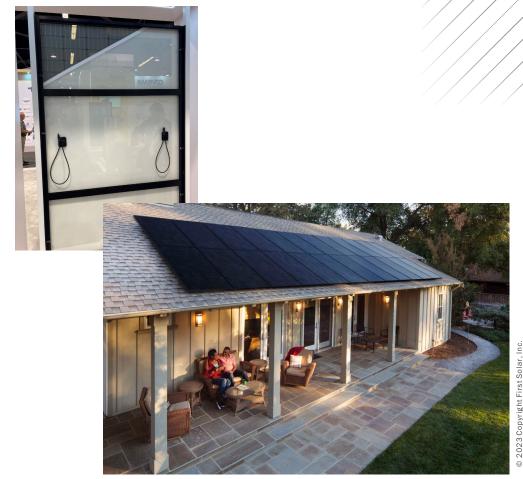


- Voc: up to 907 mV
- Voc*FF up to 727 mV
- ERE up to 0.5%
- Cell eff. >22% (internal meas.)

CdTe Tandems







Needs from CdTe Community

- Passivated back contact.
 - Improve efficiency.
 - Improve bifaciality.
 - Reduce CdTe thickness.
- 2. Higher throughput metrology/characterization of interface quality.

Novel device architectures.



One more thing...

- We're hiring!!!
 - www.firstsolar.com/careers

New equipment / space.











LEADING THE WORLD'S SUSTAINABLE ENERGY FUTURE

First Solar Across the Globe

