



UNC ALPHA CHALLENGE

Equity Team 15

Long: First Solar (NASDAQ: FSLR)

Current Price: \$249.9 (11/23/2025) | 1Y Price Target: \$396.6 (58.7% Upside)

December 2025

BUSINESS DESCRIPTION

Business Description

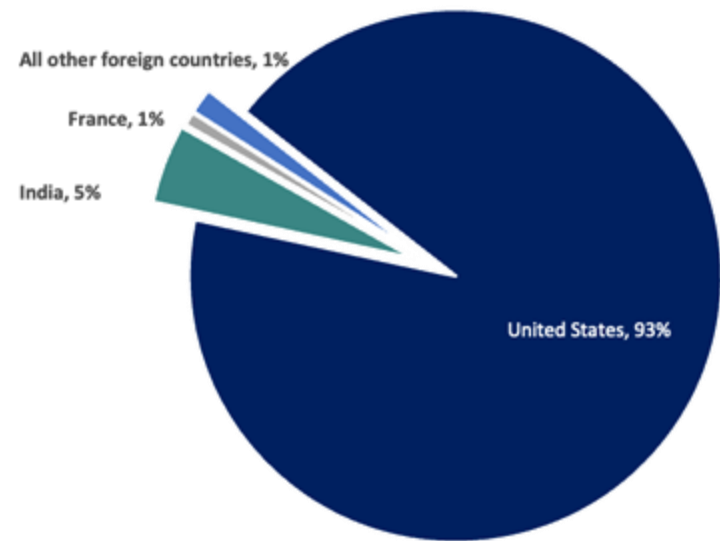
Company Description

First Solar (FLSR) is an American company that designs, manufactures and sells thin-film solar panels using cadmium telluride (CdTe) technology. It is the largest producer in the U.S. and a global leader in this segment, with factories in the U.S., India, Malaysia, and Vietnam.

- FSLR is a solar energy manufacturer positioned as a key winner in the global transition toward clean, scalable, and cost-competitive energy.

Revenue Breakdown and Key Metrics

Revenue breakdown by geography
— % of Sales

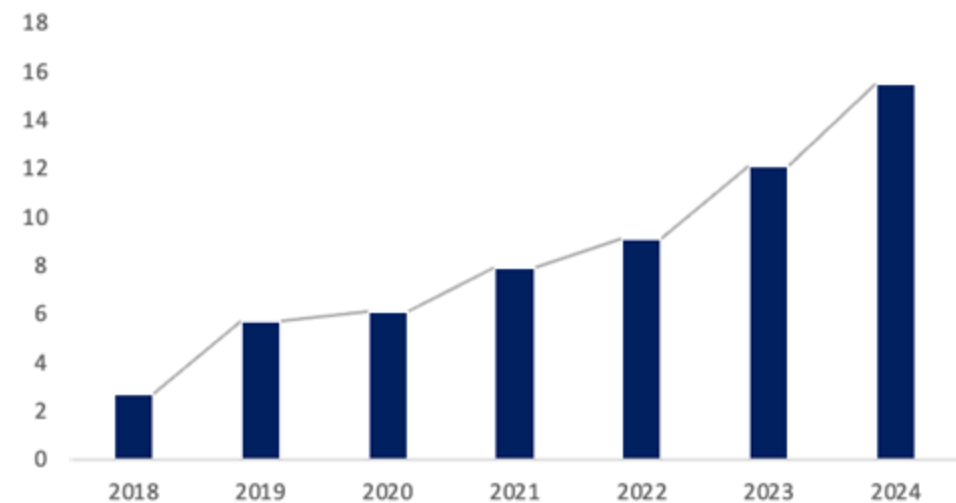


Source: FSLR, Capital IQ

Key Financials and Trading Statistics

| | | | |
|-------------------------------|-----------------|--------------------|-------------|
| Current Price (\$,11/23/2025) | 249.9 | 52W High/Low (\$) | 281.6/116.6 |
| Market Cap | \$26.8 billion | Avg. Volume (M) | 2.251 |
| Enterprise Value | \$25.3 billion | Float (%) | 94.54% |
| '26E Revenue | \$6,309 billion | NTM EV/EBITDA | 7.2x |
| '26E EBITDA | \$3,289 billion | NTM P/E | 11.4x |
| EBITDA Margin (%) | 52% | LTM Q3'25 ROA (%) | 7.0% |
| 2026E EPS (\$) | \$24.4 | Dividend Yield (%) | 0.0% |

Modules Produced
— GW



THESIS

Investment Thesis: Structural Moats

Global energy demand is surging due to **AI, digitization, and data centers**, driving a shift where solar power now leads global energy investment. First Solar (FSLR), the largest U.S. producer of thin-film solar panels, benefits from four structural advantages that secure its long-term cost and market dominance.



1. AI Data Center Power Demand

The "AI Power Shock" creates a **structural supply deficit** that only FSLR can bridge due to its 18-month deployment speed vs. 7-10 years for gas/nuclear.



2. Policy-Engineered Monopoly

Bipartisan consensus secured FSLR's 45X manufacturing credit, creating a regulatory moat and pushing its **Net Manufacturing Cost to near-zero**.



3. The India Fortress

FSLR's vertically integrated factory is protected by India's ALMM/PLI barriers, securing a high-yield market that hedges geopolitical risk in the US.



4. Technological Cost Dominance

The CdTe roadmap (CuRe, Tandem) closes the efficiency gap while the **closed-loop recycling system** provides an ESG premium and resource hedge.

Structural Supply Imbalance (Demand Shock vs. Asset Scarcity)

THESIS: The US power market is entering a structural supply deficit driven by AI load growth. First Solar (FSLR) is the only scalable generation asset capable of deployment within the 2025–2028 window, as alternative baseload technologies (Gas/Nuclear) face insurmountable lead-time constraints.

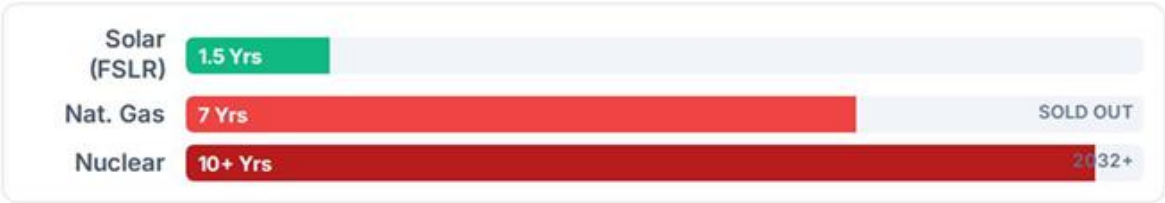
⚡ The "AI Power Shock" Inflection

- **Historical Baseline:** For two decades (pre-2023), US electricity demand was effectively flat (**0% growth**).
- **Current Projection:** Demand is projected to grow by **30–60 GW by 2030** , equivalent to adding two Californias worth of demand in 5 years.
- **Unit Economics:** A single AI training cluster (e.g., Microsoft/OpenAI) now requires **1 GW** , up from 20–50 MW for standard data centers in 2020.



⚠ The "Turbine Cliff": Why Gas & Nuclear Are Unavailable

- **Natural Gas Bottleneck:** Manufacturers like GE Vernova and Siemens are **sold out until 2029–2030** . Years of under-investment mean they physically cannot meet the AI spike.
- **Nuclear Timeline:** SMRs are experimental with optimistic deployment in 2030–2032. Restarts like Three Mile Island add negligible capacity relative to the ~40 GW required.
- **Implication:** Even if a hyperscaler permits a gas plant today, it cannot come online until 2030.



First Solar as the "Default" Bridge

Deployment Speed: First Solar utility-scale PV can be deployed in **12–18 months**. In the absence of baseload, hyperscalers are adopting a "Solar + Storage" model (FSLR + Tesla Megapacks) to simulate 24/7 power profiles.

Inelastic Demand & Political Durability

MECHANISM: Data center customers prioritize speed and compliance over cost, decoupling FSLR's pricing from global commodity markets. Concurrently, FSLR's domestic manufacturing status positions subsidies as essential national defense spending, insulating them from political repeal.

Customer Bifurcation & Pricing Power

- The Premium Market:** Approximately 30–35% of FSLR's backlog is derived from Data Center/Tech customers (Amazon, Microsoft, Google) via developers like Intersect Power and NextEra.
- Price Inelasticity:** These customers prioritize speed and compliance over cost. FSLR's Average Selling Price (ASP) has remained sticky at ~\$0.30/watt, maintaining a strategic premium over the tariff-adjusted US import floor (~\$0.26/watt).

STRATEGIC PREMIUM VS IMPORT FLOOR



The Cost-of-Delay Arbitrage

- Financial Logic:** A 100 MW AI data center generates \$30M–\$50M in monthly revenue. Every day of operation is critical.
- Risk Calculation:** A 3-month customs delay on Chinese panels (due to UFLPA risks) results in ~\$120M in lost revenue.
- The Premium:** Paying the resulting \$0.04/watt spread (~\$4M total) for domestic First Solar panels acts as insurance against this loss.

REVENUE LOSS RISK

~\$120M
3-Month Customs Delay

>

SPREAD COST

~\$4M
Domestic Premium



Strategic Protection (National Security Asset)

The US government views energy as the binding constraint in the AI arms race. Throttling FSLR (via subsidy repeal) would choke the only rapid supply of power hardware. Section 45X credits are viewed not as "Green Subsidies," but as **defense subsidies** similar to those for Lockheed Martin, ensuring domestic energy dominance.

While Competitors Talk, First Solar Builds: 17.7 GW US Capacity by 2027

EXECUTION: First Solar is converting "paper promises" into real assets. By voluntarily exiting low-margin international markets to concentrate 100% of volume in the protected US zone, FSLR maximizes exposure to high-value data center demand and manufacturing tax credits.

Domestic Capacity Ramp (The "Iron in the Ground")

- The Growth Sprint:** US capacity is scaling rapidly from ~11 GW (2024) to **17.7 GW (2027)**.

| | |
|--|--|
| Ohio (Factories 1-3) ● Active (Hub) | Alabama (Fac 4) ● Active (Sep '24) |
| Louisiana (Fac 5) ● Active (Aug '25) | S. Carolina (Fac 6) ● Const (H2 '26) |



Strategic Allocation: The "Fortress" Pivot

- Exiting Commodity War:** FSLR is voluntarily **cutting 1 GW** of international production (Vietnam/Malaysia) in 2025.
- The Logic:** Abandoning low-margin spot markets to reallocate 100% of volume to the **Protected US Zone**.
- Result:** Maximizing exposure to Section 45X Tax Credits (Manufacturing) and high-ASP Data Center Demand.



Backlog as a Revenue Vault

With 54 GW sold out through 2028, First Solar's revenue visibility is unmatched in the sector. This isn't speculative pipeline; it is contracted capacity at premium pricing (\$0.309/watt), completely insulated from commodity price fluctuations.

TOTAL VALUE
\$16.4B

The "One Big Beautiful Bill" & Section 45X Security

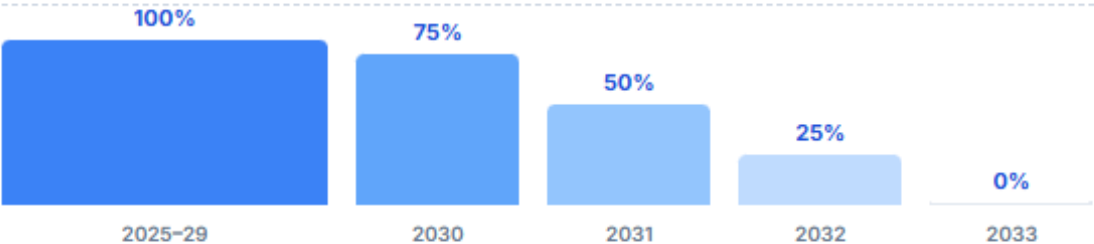
Solar Manufacturing is "Industrial Policy," Distinct from "Green" Subsidies

THESIS: First Solar benefits from a structural "Policy Clearing" following the July 2025 OBBBA. By bifurcating the IRA into "Industrial Policy" (Protected) and "Consumer Policy" (Repealed), the administration—supported by a bipartisan coalition of Rust Belt Democrats and Deep South Republicans—has locked in Section 45X credits and strict Domestic Content rules.

🔗 The Legislative Settlement (July 4, 2025)

- **The Event:** Trump signed OBBBA, splitting "Winners" vs "Losers."
- **The Winner (45X):** Credits **RETAINED** for solar components.
- **The Losers:** Killed Wind credits & Consumer EV subsidies (30D).
- **Implication:** 45X is "Defense Industrial Base," not a climate handout.

SECTION 45X VALUE SECURITY (2025–2033)



🛡️ The "Red State Firewall"

- **Strategy:** FSLR located **100%** of US mfg in Trump-voting states.

OH

The "Mothership" (Perrysburg)
~2,500 Jobs • Rep. Latta (R-OH)

Safe

AL

The Growth (Trinity)
~800 Jobs • Sen. Tuberville (R-AL)

Protected

LA

The Expansion (Iberia Parish)
~700 Jobs • Sen. Cassidy (R-LA)

Trade Weapon

Political Alpha: Sen. Cassidy framed credits explicitly as a "trade weapon against China," aligning FSLR with the America First agenda.



The Result: A Regulatory Monopoly

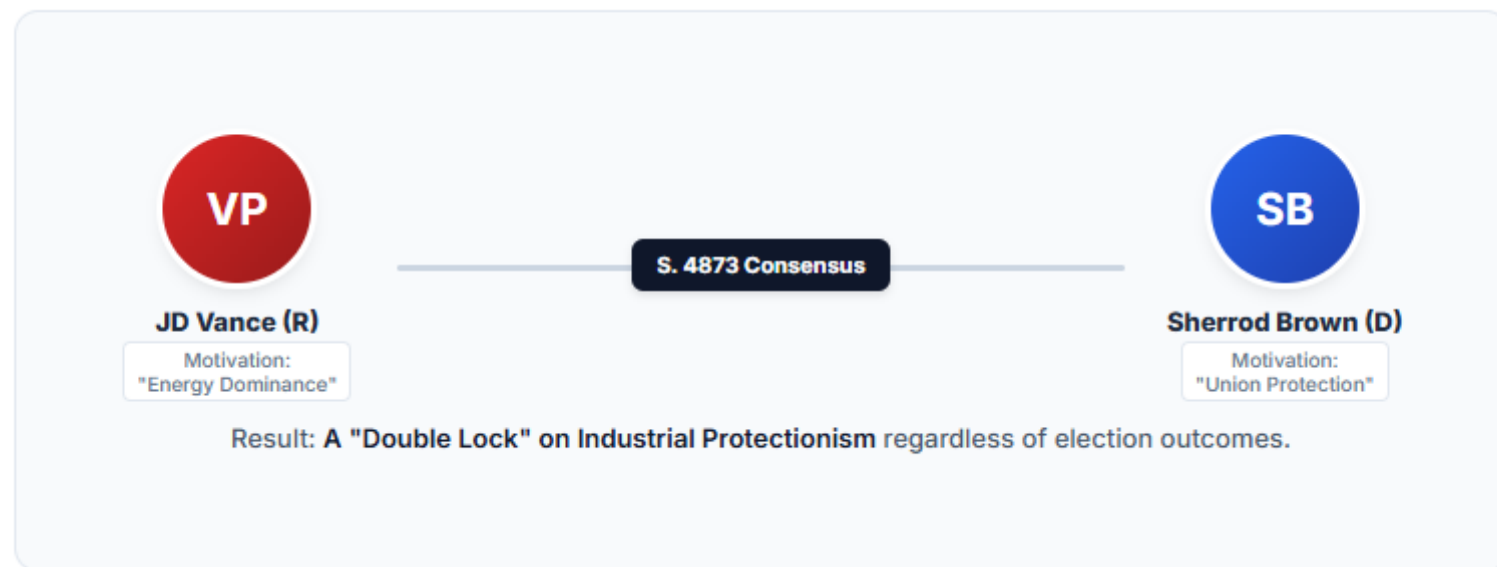
The survival of 45X amidst a broader repeal creates a high barrier to entry for competitors lacking this specific political coverage.

The Bipartisan "Double Lock" & Policy Outlook

A Convergence of "America First" and "Pro-Union" Agendas

The "Unlikely Alliance" (Brown-Vance)

- **The Phenomenon:** On solar protectionism, Senators Sherrod Brown (D-OH) and VP JD Vance (R) act as the same policymaker, creating a unified political front.
- **Shared Mechanism:** Both championed **S. 4873** (American Tax Dollars for American Solar Manufacturing Act) to block Chinese components from US tax credits.
- **The Consensus:** While motivations differ, the policy conclusion is identical: **Strict Trade Enforcement**.



Potential Policy Upside

CUSTOMER PREMIUM CAPTURE

Tie-Breaker for the ITC Bonus

The Lever: The 10% ITC Domestic Content Bonus is a major incentive for utility developers.

The Possibility: If the administration enforces the rule strictly (requiring 100% US wafers/cells), FSLR becomes the **sole reliable enabler** of the bonus.



Potential Result:
Significant Margin Tailwind



Takeaway: The "Floor" is Safe, The "Ceiling" is Uncapped

The bipartisan alliance secures the current subsidy baseline (the floor). Any move toward stricter enforcement acts as pure, uncapped upside potential for First Solar's margins, without being priced in as a certainty.

Supply Chain Localization (Meeting the Mandate)

Moving from "Global Sourcing" to "Regional Ecosystems"

THE STRATEGY: First Solar has forced Tier 1 suppliers to physically co-locate factories near US hubs ("The Satellite Strategy") to insulate against logistics shocks and meet the strict domestic content thresholds of the OBBBA.

The "Satellite" Strategy (Co-Location)

- **Steel:** Ice Industries (LA) and OMCO Solar (AL) built dedicated plants to feed local factories.
- **Glass:** Vitro Architectural Glass restarted Pennsylvania production lines specifically for Series 7.
- **Semiconductor:** 5N Plus (Canada) secures Cadmium Telluride from a "friendly shore," avoiding China entirely.



The "Finishing Hub" (South Carolina)

- **New Asset:** \$330M Facility in Gaffney, SC (Operational H2 2026).
- **Strategic Value:** Onshores the "finishing" (frames/junction boxes) of international Series 6 modules.
- **Purpose:** Ensures volume access to US market **without triggering FEOC penalties**.



Step 1: Import Volume

Series 6 laminates arrive from Malaysia/Vietnam (No Frame).



Step 2: SC Finishing Hub

US Steel Frames & Junction Boxes applied in Gaffney, SC.



Step 3: Market Access

Product classified as "US Finished," avoiding tariff barriers.



Strategic Moat: FEOC Immunity

By localizing the final stage of production in South Carolina, First Solar effectively "washes" its international volume of regulatory risk, ensuring 100% of its supply can serve the US market tariff-free.

The India Fortress (Policy & Execution)

India's "Parallel Wall" Creates a Non-Chinese Monopoly

THESIS: India is not a "subsidy-free" market for First Solar; it is a "different subsidy" market. The company has successfully executed a major strategic pivot, building a fully integrated factory inside India's own protectionist barriers (ALMM/PLI). This domestic position, coupled with the inherent climate advantage of CdTe, secures a high-yield market that hedges against potential long-term policy shifts in the US.

₹ The Strategic Pivot (Execution)

- **Investment:** FSLR built a \$700 million factory in **Tamil Nadu** (commissioned 2024) to be a domestic player in India.
- **Scale:** The Chennai facility provides **3.3 GW** of fully integrated manufacturing capacity.
- **Hedge:** This factory was built to be **Supply Chain Independent of China**, insulating FSLR from India-China border tensions and trade wars.

🔒 India's Protectionist Moats

- **ALMM Rule:** Effectively **bans Chinese manufacturers** from selling to government-backed projects.
- **FSLR Status:** The Chennai facility is **approved on the ALMM list**, granting restricted market access.
- **PLI Subsidy:** India offers cash subsidies for domestic mfg. FSLR awarded **highest tier**.



Strategic Conclusion: Geopolitical Hedge

India serves as a crucial geopolitical hedge: If US policy falters, FSLR has a fortress in India; if Indian demand slows, they can ship high-quality, China-free product to the US market.

The CdTe Climate Advantage & LCOE Win

Generating 5-8% More Energy in the World's Hottest, Humid Regions

Temperature Resilience

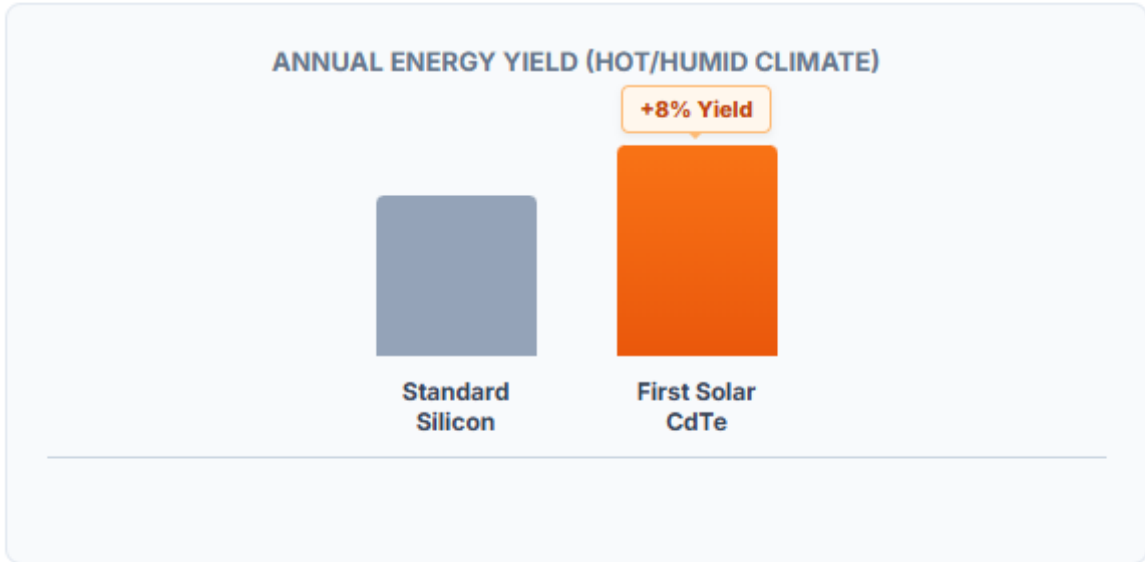
India's solar belt (Rajasthan, Gujarat) is extremely hot. Traditional Silicon panels lose significant efficiency at high temperatures (>65°C), whereas FSLR's CdTe is **far more resilient** to thermal degradation.

Humidity Gain (Spectral Shift)

India's monsoon season presents high humidity. CdTe's unique "**spectral shift**" capability allows it to harvest light wavelengths that water vapor blocks, giving it a distinct energy yield advantage over silicon in humid conditions.

LCOE Dominance

Indian utilities prioritize Levelized Cost of Energy (LCOE). Despite any slight upfront cost premium, FSLR's **higher energy yield** over a 25-year project life makes it the cheaper option and the winner on LCOE.



Operational De-Risking: Water Security

The Chennai factory is the world's first **net-zero water withdrawal** solar plant, using 100% recycled sewage water. In water-stressed India, this is a critical operational hedge against resource scarcity shutdowns.

The Technological Roadmap: Breaking the 20% Ceiling

From "Single-Material" to "Hybrid" - Stacking Tech for Future Gains

THESIS: First Solar's investment in next-generation Cadmium Telluride (CdTe) chemistry and Tandem cells is closing the efficiency gap with silicon. This roadmap, combined with an unparalleled IRA subsidy advantage, makes FSLR the only solar company with a clear path to an effective zero cost of goods sold (COGS) in the US market.

2026



"CuRe" Chemistry

Group V Doping Upgrade

THE TECH

Replacing unstable Copper (Cu) doping with Group V elements (e.g., Arsenic/Antimony) to stabilize the semiconductor core.

THE IMPACT

Degradation drops to **~0.2%–0.3% per year** (vs. ~0.5% for silicon), significantly extending asset life.

Higher Lifetime Energy Yield

LATE 2026



Quantum Dot Bifaciality

Partnership w/ UbiQD

THE TRICK

Nanoparticles in the encapsulant absorb UV/blue light (unused by CdTe) and re-emit it as red light (highly efficient for CdTe).

THE RESULT

Creates an **artificial spectral shift**, boosting effective efficiency and helping close the bifacial gap with silicon.

Efficiency Step-Change

2027+



Tandem Perovskites

The Holy Grail (Evolar Acquisition)

THE SOLUTION

Stacking a Perovskite top cell (blue light) onto a CdTe bottom cell (IR light) to maximize spectrum capture.

THE GOAL

Move module efficiency from ~19% to a future **~30%**, leveraging FSLR's glass sealing expertise to solve stability issues.

Market Dominance

Cost Dominance & The COGS Advantage

Subsidies Floor Costs at ~\$0.00 while Tariffs Floor Competitor Prices at ~\$0.30

📊 The Policy-Engineered Margin Moat

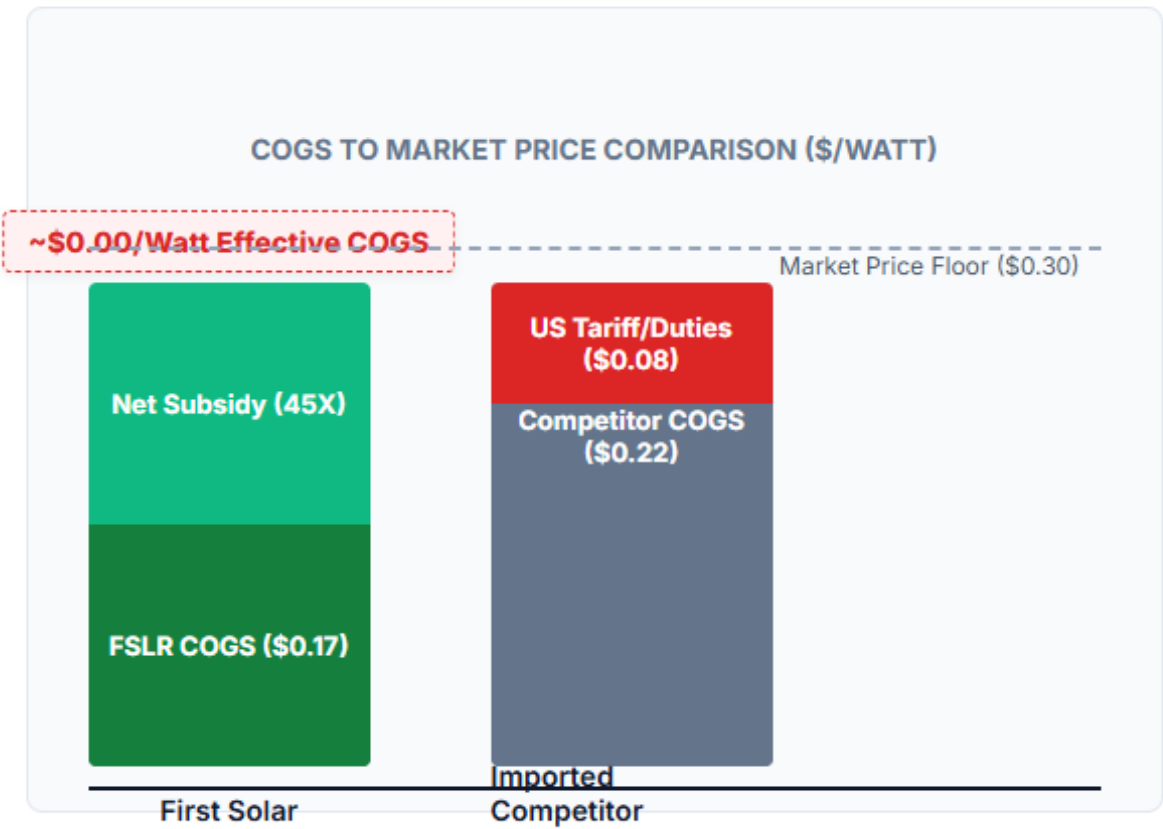
- **Policy Intervention:** Global Chinese polysilicon costs ~\$0.08–\$0.10/watt, while FSLR's pre-subsidy COGS is ~\$0.17/watt.
- **The Result:** US tariffs push Chinese "Landed" prices to ~\$0.29–\$0.33/watt (the market floor).
- **FSLR's Subsidy:** FSLR qualifies for the full IRA Section 45X Advanced Manufacturing Credit.
- **Total 45X Subsidy:** ~\$0.17/watt.

Effective Cost Conclusion

FSLR's **Effective Production Cost** is ~\$0.00/watt (\$0.17 COGS - \$0.17 Subsidy), allowing them to generate a **46%+ Gross Margin** while selling at the market floor of ~\$0.30/watt.

⚖️ The Customer's Tie-Breaker (ITC Bonus)

- **The Lever:** The 10% ITC Domestic Content Bonus is a critical economic incentive for developers (e.g., ~\$12M on a \$120M project).



Customer Alignment & Geographic Advantage

The Technology is Built to Dominate the Hottest, Hail-Prone US Markets

Geographic Concentration

FSLR's backlog is strategically concentrated in "Hot, Humid, and Hail-Prone" regions where CdTe's unique physics provide a tangible economic yield premium over silicon.



Heat & Hail Belt (Texas)

The ERCOT market, where summer peak pricing and severe weather demand both thermal resilience and durability.



Hot & Humid Belt (Southeast US)

Key markets like Georgia and Florida, where high water vapor content favors CdTe's spectral response.



Strategic International (India)

High ambient temperatures and monsoon seasons create the perfect "native habitat" for CdTe technology.

The Financial Yield Premium

1. The "Summer Peak" Gain

CdTe loses significantly less power in extreme heat than silicon. This generates relatively more power during critical **summer afternoon price spikes** (e.g., 4 PM in August in Texas), maximizing revenue when it matters most.

2. The "Humidity" Gain

CdTe is tuned to absorb light wavelengths that water vapor doesn't block. This creates a ~2-4% **"Spectral Gain"** in humid conditions, outperforming even high-efficiency silicon panels in the Southeast US.

3. The "Hail" Gain

Series 7 uses a **Glass-on-Glass** sandwich structure, making it mechanically tougher than standard backsheet panels. Developers using FSLR often secure **lower insurance premiums** due to the reduced risk of micro-cracks and hail damage.

VALUATION

Valuation Overview

Valuation Summary 2026: Price Target

| | | Bear | Base | Bull |
|---------------|--------------------|---------|---------|---------|
| PE Multiple | 2027 EPS | \$18.2 | \$29.1 | \$29.8 |
| | Forward P/E | 12.0 | 14.0 | 16.0 |
| | Price Target | \$218.5 | \$407.1 | \$477.4 |
| | | | | |
| DCF Valuation | 2027 EBITDA | 3,006 | 4,172 | 4,253 |
| | Forward EV/EBITDA | 7.3 | 10.4 | 13.3 |
| | Enterprise Value | 21,979 | 43,313 | 56,713 |
| | Net Debt | -1,366 | -1,872 | -1,476 |
| | Equity Value | 20,613 | 41,441 | 55,237 |
| | Shares Outstanding | 107 | 107 | 107 |
| | Price Target | \$192.1 | \$386.2 | \$514.8 |
| | | | | |
| Returns | Avg. Price Target | \$205.3 | \$396.6 | \$496.1 |
| | Current Price | \$249.9 | \$249.9 | \$249.9 |
| | Upside/Downside | -17.8% | 58.7% | 98.5% |

Valuation weighs forward P/E multiples and DCF valuation to determine price targets across the three different cases

- Base case incorporates:
 - 14.0x forward P/E multiple, above historical average and 2024's 12.0x multiple, along with a 2027 EPS of \$29.1
 - DCF incorporates 10% WACC, 2% growth, and implies a 10.4x exit multiple

This lands the average (50/50 weighted) **Price Target for the Base Case at \$396.6, which implies a 58.7% upside tu current valuation.**

| | 2026 | | | 2027 | | |
|----------|----------|-----------|--------------|----------|-----------|--------------|
| | Forecast | Consensus | % Difference | Forecast | Consensus | % Difference |
| Revenue | 6,309 | 6,164 | 2% | 7,276 | 7,051 | 3% |
| % Growth | 21% | 21% | 1% | 15% | 14% | 6% |
| EBITDA | 3,289 | 3,209 | 2% | 4,172 | 4,012 | 4% |
| % Margin | 52% | 52% | 0% | 57% | 57% | 1% |
| EPS | 24.4 | 22.5 | 8% | 29.1 | 28.5 | 2% |

RISKS

Risks and Mitigants

Key Risks

- Heavy reliance on U.S. public policy and tax incentives; potential reductions could slow growth.
- Technological competition from more efficient silicon-based solar producers.
- Supply chain exposure to volatile raw materials such as cadmium and tellurium.
- Possible delays in production expansion that could hurt delivery timelines and margins.




Key Mitigants

- Strong domestic positioning aligns with U.S. industrial and energy independence goals, supporting continued policy backing.
- Proprietary thin-film technology offers cost and temperature performance advantages over traditional silicon.
- Diversified global manufacturing footprint (U.S., India, Malaysia, Vietnam) helps manage material sourcing and supply chain risk.
- Solid balance sheet and robust cash position provide flexibility to weather policy or market fluctuations.
- Long-term structural demand growth for clean, scalable energy supports sustained market relevance and profitability.

APPENDIX

Generation Technology Deployment Timelines

Data supporting the "Speed to Power" advantage

| TECHNOLOGY | TIME TO DEPLOY | PRIMARY BOTTLENECK | AVAILABILITY (2025-29) |
|---|---|---|------------------------|
|  First Solar (PV) | 12 – 18 Months Fastest Deployment | Interconnection Transmission Queues | ✓ AVAILABLE |
|  Natural Gas | 4 – 6 Years Permitting + Build | Turbine Shortage Sold out to 2030 | ⊘ UNAVAILABLE |
|  Nuclear (SMRs) | 8 – 12 Years Long-Term Only | Regulatory Approval & Construction | 🕒 FUTURE (2032+) |



KEY INSIGHT

First Solar is effectively the "Emergency Oxygen" for the AI industry; it is the only scalable option available **now** to meet the immediate power deficit.

Unit Economics of "Cost of Delay"

Quantifying why Hyperscalers pay a premium for domestic certainty.

SCENARIO 100 MW Hyperscale Data Center Project (\$30M–\$50M Monthly Revenue)

Option A (Import)

~\$0.26/watt

Source: Chinese/SE Asia Import
Risk: **UFLPA Detention (Customs)**
Impact: Potential 3-month delay in power-up

FINANCIAL IMPACT (LOSS)

-\$120M

Option B (First Solar)

~\$0.30/watt

Source: Ohio/Alabama (Domestic)
Cost: **\$0.04 Premium x 100MW**
Benefit: Bypasses customs entirely (Zero Risk)

PREMIUM COST

-\$4M



Rational Conclusion: The \$4M premium is effectively a cheap insurance policy paid to protect against a catastrophic \$120M revenue loss.

Backlog & Customer Segmentation

Deriving the "Shadow" Data Center exposure from the order book.



● Utility / Regulated

~55%

● Big Tech / Data Center

~35%

Customer Proxies



Intersect Power 7.3 GW ORDERED

Portfolio heavily weighted (>80%) to Hyperscalers like **Amazon** and **Meta**. FSLR is their primary hardware partner.



NextEra Energy 20% ALLOCATION

Disclosed that ~20% of their total renewables backlog is now dedicated specifically to "Technology and Data Center" customers.



Silicon Ranch 4 GW ORDERED

Primary supplier for data centers in the US Southeast (e.g., Georgia/Tennessee server alleys).

Product & Regulatory Moat

Why the product fits the Industrial/Utility niche (and avoids residential risks).

Series 7 Specification



Form Factor

~2.3 meters tall. Heavy and unwieldy, making it physically unsuitable for residential rooftops. This is a pure-play industrial tool.



Installation Speed

Uses proprietary "SpeedSlot" mounting for robotic/tracker installation, reducing labor costs for utility developers.



Strategic Benefit

Completely insulates FSLR from the residential solar market crash caused by high interest rates.



Utility-Scale Installation Only

Compliance Moat (UFLPA)



The Issue

Tech giants have "100% Carbon Free" and anti-forced labor goals. Silicon-based supply chains are notoriously opaque.



The Solution: CdTe Chemistry

First Solar's Cadmium Telluride (CdTe) technology uses **zero silicon**. It is chemically distinct from Chinese panels.



The Benefit

Creates a clean audit trail for compliance officers. No complex tracing required—if it's FSLR, it's compliant.



Data Center Grade Compliance

First Solar's Domestic Infrastructure Map (2025)

Detailed breakdown of the largest manufacturing footprint in the Western Hemisphere.

| FACILITY | LOCATION | CAPACITY | STATUS | ROLE |
|---------------|-------------------|----------|---------------|-----------------------|
| Factories 1-3 | Perrysburg, OH | ~7.0 GW | ACTIVE | R&D + Primary Mfg |
| Factory 4 | Trinity, AL | 3.5 GW | ACTIVE | Southeast Hub |
| Factory 5 | Iberia Parish, LA | 3.5 GW | ACTIVE | Deep South Hub |
| Factory 6 | Gaffney, SC | 3.7 GW | CONST. (2026) | Finishing / Assembly |
| TOTAL US | -- | 17.7 GW | -- | Largest in West. Hem. |



Factories 1-3: Perrysburg, OH

KEY INSIGHT

FSLR's capacity is not "planned"—it is **built**.

14 GW is already online today, with the final 3.7 GW (SC) fully funded and under construction.

Pricing Power & Margins: Decoupling from Commodity

Understanding the structural premium over global spot prices.



THE MARKET REALITY

Global spot prices (~\$0.09) are irrelevant to US enterprise buyers due to tariffs and UFLPA risks. The real competitor is the Tariff-Adjusted Import Floor (~\$0.26).

WHY THE PREMIUM PERSISTS

Customers willingly pay the **+\$0.05/watt spread** to:

- Eliminate UFLPA seizure risk (Customs delays).
- Guarantee eligibility for the Domestic Content Bonus (IRA).



Margin Impact: This spread flows directly to Gross Margins, acting as the structural support for FSLR's **>50% long-term margin target**.

Customer Ecosystem Breakdown

The "Whale" Strategy: Tier 1 Developers & Hyperscale End-Users

THE "MIDDLEMEN" (DEVELOPERS)

Intersect Power
Delivering through 2029

~7.3 GW

Lightsource bp
Key partner despite pivots

~5.4 GW

Silicon Ranch
US Southeast Projects

~4.0 GW

NextEra Energy
Largest US Renewable Dev

Major Cust.

Swift Current / Longroad
Repeat Customers

Multi-GW

BUILDS FOR

THE END-USERS (OFFTAKERS)

Big Tech (Data Centers)

Amazon, Microsoft, Google, Meta

The Driver: "100% Carbon Free" goals require gigawatts of clean power to offset surging AI emissions.
**Amazon recently signed FSLR deal for Oregon/Ohio data centers.*

Regulated Utilities

Duke Energy, Southern Co, TVA

The Driver: Prioritizing FSLR for its reliability and domestic supply chain security over cheaper, riskier imports.

The "Trump Risk" Matrix (Post-OBBBA)

Status of key climate/industrial credits following the July 2025 legislation.

| CREDIT | PURPOSE | STATUS | RISK / IMPACT TO FSLR |
|--------------|---|--------------|--|
| 45X | Advanced Manufacturing Production Subsidy | SAFE | Low. Retained for solar manufacturing (wafers, cells, modules); repealed for Wind. Cash flow secure through step-down to 2033. |
| ITC (48E) | Investment Tax Credit (Capex Subsidy) | RESTRICTED | Medium. Sunset clause introduced (Dec 31, 2027) unless construction began by July 4, 2026. Acceleration of pipeline deployment required. |
| Dom. Content | Bonus Credit for US/Domestic Supply Chain | STRENGTHENED | Positive. Requirements tightened to favor pure US supply (FSLR's core advantage), creating a higher regulatory moat against Chinese competitors. |
| EV Credits | Consumer Tax Credit (Section 30D) | REPEALED | None Direct. Proves administration preference for industrial subsidies (45X) over consumer handouts (EVs), strengthening the thesis that FSLR's core subsidies are politically secure. |

Summary: The OBBBA political compromise clearly delineated "Industrial Policy" (retained) from "Consumer Policy" (repealed), structurally de-risking FSLR's manufacturing cost advantages.

The "Safe Harbor" Demand Pull-Forward

Why the ITC restrictions help First Solar in the short term.

🕒 The "Sunset" Clause

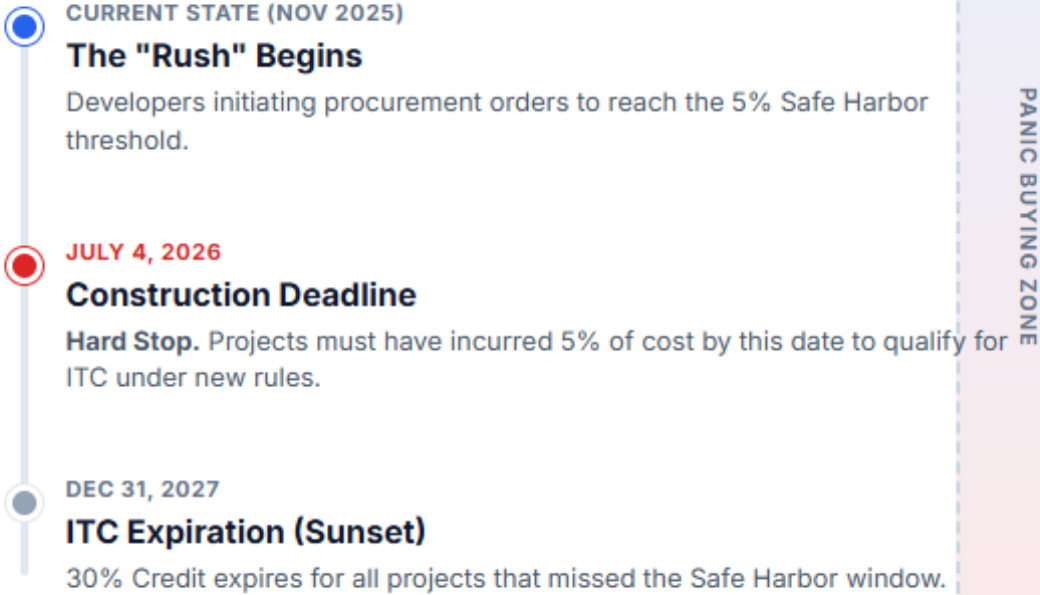
The OBBBA officially ends the Investment Tax Credit (ITC) for any solar project not online by 2027, **unless** they have established "beginning of construction" by July 4, 2026.

🏃 The "Safe Harbor" Rush

To meet the "beginning of construction" test (IRS 5% rule), developers are scrambling to buy domestic panels **now**. Spending 5% of project CAPEX on FSLR modules today locks in the 30% ITC for future years.

🛡️ Strategic Impact

This regulatory cliff creates a massive, artificial backlog for FSLR, effectively insulating the order book from broader market demand volatility for the next **18 months**.



Political Protection Scorecard

Data on the specific members protecting FSLR jobs.

| STATE | FACILITY | JOB | PROTECTOR | POLITICAL LEVERAGE |
|-----------|---------------|--------|---------------------|---|
| Ohio | Factories 1-3 | ~2,500 | Rep. Bob Latta (R) | Energy & Commerce Comm. (Veto power on key legislation) |
| Alabama | Factory 4 | ~800 | Sen. Tuberville (R) | Armed Services Comm. (Leverage tied to National Security) |
| Louisiana | Factory 5 | ~700 | Sen. Cassidy (R) | Finance Comm. (Control over Tax Code/Credits) |

The "Wind vs. Solar" Trade: Sen. Tuberville specifically agreed to kill Wind credits (Midwest benefit) to save Solar credits (Alabama benefit), proving the credits are viewed as **regional industrial assets**, not interchangeable climate policy.

The Democratic "Union vs. Climate" Split

Why a Democrat win doesn't threaten the FSLR regulatory thesis.

The Conflict

"Union Wing" (Winning)

Prioritizes Jobs & Tariffs

"Climate Wing" (Losing)

Prioritizes Cheap Deployment

The Democratic party faced a fundamental internal conflict: protect high-wage domestic jobs (Union priority) or flood the market with cheap Chinese panels (Climate deployment priority).

The Verdict

The Biden-Harris administration's final acts (tightening **UFLPA/FEOC** enforcement) proved the "Union Wing" won. The Democratic platform now officially supports strict protectionism, aligning fully with the GOP on trade issues involving solar manufacturing.

Takeaway

The political risk is neutralized. FSLR's moat is now secured by a **bipartisan consensus** around industrial policy, making it immune to future changes in presidential administrations.

Climate Wing

Coastal / Liberal Democrats
Goal: Rapid GW Deployment



POLICY VERDICT: STRICT PROTECTIONISM

Union Wing

Rust Belt / Moderate Democrats (e.g., Brown)
Goal: Domestic Jobs & Supply Chain Security

This consensus ensures **FSLR's price premium is politically sustainable.**

Domestic Content "Tie-Breaker" Math

The calculation developers run to justify paying FSLR a premium.

| PROJECT: 100 MW SOLAR FARM (\$120M TOTAL COST) | IMPORTED PANEL (COMPETITOR) | FIRST SOLAR (SERIES 7) |
|--|-----------------------------|-------------------------------|
| Panel Price | \$0.28 / watt | \$0.34 / watt (Premium) |
| Total Panel Cost (100 MW) | \$28 Million | \$34 Million (+\$6M Cost) |
| Applicable ITC Rate (w/ Domestic Content) | 30% | 40% (w/ Bonus) |
| Total Tax Credit Benefit (30% of \$120M) / (40% of \$120M) | \$36 Million | \$48 Million (+\$12M Benefit) |
| Net Savings / (Cost vs. Benefit) | -- | +\$6 Million Net Win |

Policy Mechanisms (The "Parallel Wall")

Detailed breakdown of India's non-tariff barriers.



ALMM

APPROVED LIST OF MODELS & MFRS

THE RULE

Mandatory approval is required to sell panels to any **government-backed tender** in India (which currently accounts for the majority of utility-scale demand).

THE MOAT

The Indian government has effectively **banned Chinese manufacturers** from this list to reduce geopolitical dependence, creating a protected market for approved domestic players.



FSLR Status: **Chennai (3.3 GW) Approved**

Secures access to the most valuable market segment.



PLI Scheme

PRODUCTION LINKED INCENTIVE

THE RULE

Direct **cash subsidies** awarded to manufacturers who build fully vertically integrated solar factories within India, designed to boost domestic self-reliance.

STRATEGIC FIT

This subsidy serves as a direct substitute for the US "45X" credit, lowering FSLR's Cost of Goods Sold (COGS) in the Indian market and maintaining margins.



FSLR Status: **Highest Tier Awarded**

Only non-Indian company to receive top-tier status.

Strategic Implication: Together, ALMM restricts competition while PLI subsidizes production cost, creating a "Parallel Wall" of protection similar to the US Inflation Reduction Act.

Technology & LCOE Advantage

Quantifying the yield premium in hot/humid climates.

THE PHYSICS

Temperature Resilience

CdTe semiconductor technology is far more resilient than traditional silicon at operating temperatures **above 65°C**. This is a critical advantage in India's primary solar belts (Rajasthan and Gujarat), where ambient heat severely degrades silicon performance.

Spectral Shift (Humidity)

In high-water-vapor conditions (monsoon season), CdTe benefits from a "spectral shift," allowing it to harvest light wavelengths that water vapor typically blocks. This maintains energy production when silicon panels would drop off.

THE FINANCIALS

+5-8%

ANNUAL ENERGY YIELD PREMIUM

LCOE Impact

This energy yield premium directly translates to a lower **Levelized Cost of Energy (LCOE)** for the utility customer over the 25-year lifespan of the project. Even if FSLR panels have a slightly higher upfront cost, the superior generation makes them the most economical choice long-term.



The Verdict: While competitors compete on "price per watt" (CapEx), First Solar wins on "cost per MWh" (LCOE), aligning perfectly with utility incentives.

Execution & Operational Moats

Supply chain and water security details.



Supply Chain Independence

VERTICAL INTEGRATION MOAT

THE STRATEGY

FSLR's Chennai factory is **fully vertically integrated** (raw materials to finished panel under one roof).

THE BENEFIT

Unlike Indian competitors (Tata/Adani) who rely on Chinese cells, FSLR is not dependent on external supply chains, providing a **stable supply line** immune to India-China trade tensions.



Key Hedge: Mitigates geopolitical and logistical risk for Asian production volume.



Water Security

OPERATIONAL DE-RISKING

THE CERTIFICATION

The \$700 Million Chennai factory is certified as the world's first **net-zero water withdrawal** solar plant.

THE BENEFIT

By using 100% **recycled sewage water**, FSLR de-risks its operational capacity in water-stressed regions of India, ensuring continuous production.



Key Hedge: Mitigates regulatory and environmental shutdowns due to resource scarcity.

These structural operational advantages provide FSLR a critical non-policy moat over all local and international competitors operating within India.

FSLR Efficiency Timeline (2010–2025)

The evolution from low-cost to high-performance.

| PERIOD | KEY PRODUCT | MODULE EFFICIENCY | DESCRIPTION |
|-----------|-------------|-------------------|--|
| 2010–2012 | Series 2 | ~11.1% | Small (0.72 m ²), frameless, baseline product. |
| 2017–2019 | Series 6 | 17% – 18% | Major Leap. Moved to a massive (2.47 m ²) form factor, significantly reducing "dead space." |
| 2024–2025 | Series 7 | 19.3% – 19.7% | Current flagship. Optimized for utility-scale. Highest cell efficiency >20.6%. |



~80%

RELATIVE INCREASE

Driven by the introduction of **CuRe chemistry** and the strategic shift to a large-area form factor, positioning CdTe as a direct competitor to silicon efficiency.

Thermal & Spectral Performance Comparison

Detailed breakdown of relative efficiency loss.

| TECH / PRODUCT EXAMPLE | MODULE EXAMPLE | TEMP. COEFF. | RELATIVE LOSS AT 65°C | OUTPUT % |
|------------------------|-----------------|--------------|-----------------------|----------|
| Commodity Silicon | Mono-PERC | -0.38% / °C | -15.2% | 84.8% |
| First Solar | Series 7 (CdTe) | -0.32% / °C | -12.8% | 87.2% |
| Premium Silicon | TOPCon (N-Type) | -0.30% / °C | -12.0% | 88.0% |



Conclusion: FSLR's thermal advantage over standard silicon is significant. However, its true moat is **Spectral Response**, which provides a +2–4% gain in humid conditions (Texas/Florida/India) where TOPCon's slight thermal coefficient advantage is negated, securing the yield premium.

The Closed-Loop Recycling Moat

Recycling as a strategic resource hedge and sales tool.

♻️ Strategic Resource Hedge

>90% **High-Efficiency Recovery**
FSLR achieves a >90% recovery rate for the critical Cadmium Telluride (CdTe) semiconductor material.

💎 Resource Independence
This closed-loop system acts as a strategic stockpile, hedging against Tellurium scarcity (a rare mineral) and price volatility.

∞
1,200 Years
TOTAL USEFUL LIFE

1 kg of semiconductor material can be recycled an estimated **41 times**, extending its utility for over a millennium.

💰 Commercial ESG Advantage

Zero Landfill Guarantee
FSLR offers an "End of Life Services Agreement" that guarantees every panel is returned for recycling, eliminating disposal risk for the owner.

Hyperscaler "Scope 3" Solution
This allows data center clients (Microsoft, Amazon) to satisfy strict waste compliance requirements, justifying the premium price paid for FSLR hardware over generic silicon.

Future Proofing
The new **CuRe chemistry** is fully compatible with existing infrastructure, ensuring the loop remains closed even as tech evolves.

🌿 Certified "High Value" Recycling
Meeting the highest global standards for circularity.

Strategic Implication: Recycling converts a potential liability (hazardous waste) into a dual asset: a secure supply of raw materials and a premium sales differentiator.

BASE CASE VALUATION

| | 2020 A | 2021 A | 2022 A | 2023 A | 2024 A | 2025 E | 2026 E | 2027 E | 2028 E | 2029 E | 2030 E | PERP |
|---------------------|--------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| REVENUES | 2,711 | 2,923 | 2,619 | 3,319 | 4,206 | 5,215 | 6,309 | 7,276 | 8,096 | 9,010 | 10,026 | 12,000 |
| Annual Growth | | 7.8% | -10.4% | 26.7% | 26.7% | 24.0% | 21.0% | 15.3% | 11.3% | 11.3% | 11.3% | |
| EBITDA | 574 | 699 | -11 | 1,194 | 1,817 | 2,576 | 3,289 | 4,172 | 4,495 | 5,156 | 5,342 | 6,000 |
| EBITDA Margin | 21% | 24% | 0% | 36% | 43% | 49% | 52% | 57% | 56% | 57% | 53% | 50% |
| Annual Growth | | 22% | NA | NA | 52% | 42% | 28% | 27% | 8% | 15% | 4% | |
| Δ WORKING CAPITAL | -562 | -337 | 999 | -527 | -483 | -113 | -137 | -158 | -175 | -195 | -217 | -240 |
| % of Sales | -20.7% | -11.5% | 38.1% | -15.9% | -11.5% | -2.2% | -2.2% | -2.2% | -2.2% | -2.2% | -2.2% | -2.0% |
| TAXES | 107 | -103 | -53 | -61 | -114 | -166 | -211 | -251 | -289 | -333 | -341 | -120 |
| % of EBITDA | 18.7% | -14.8% | 478.7% | -5.1% | -6.3% | -6.4% | -6.4% | -6.0% | -6.4% | -6.5% | -6.4% | -2.0% |
| OPERATING CASH FLOW | 119 | 259 | 935 | 607 | 1,220 | 2,297 | 2,941 | 3,763 | 4,030 | 4,628 | 4,784 | 5,640 |
| CAPEX | -417 | -540 | -904 | -1,387 | -1,526 | -1,527 | -1,718 | -1,843 | -1,640 | -1,460 | -1,300 | -1,560 |
| % of Sales | -15.4% | -18.5% | -34.5% | -41.8% | -36.3% | -29.3% | -27.2% | -25.3% | -20.3% | -16.2% | -13.0% | -13.0% |
| FCF | -298 | -281 | 31 | -780 | -306 | 770 | 1,223 | 1,920 | 2,390 | 3,167 | 3,484 | 4,080 |
| FCF Mgn. | -51.9% | -40.2% | -283.5% | -65.3% | -16.9% | 29.9% | 37.2% | 46.0% | 53.2% | 61.4% | 65.2% | 68.0% |
| PRESENT VALUE | | | | | | | | 1,745 | 1,975 | 2,380 | 2,379 | 34,834 |
| ENTERPRISE VALUE | | | | | | | | | | | | 43,313 |
| 2026 E NET DEBT | | | | | | | | | | | | -1,872 |
| TOTAL EQUITY VALUE | | | | | | | | | | | | 41,441 |
| MINORITY INTEREST | | | | | | | | | | | | 0 |
| MAJ. EQUITY VALUE | | | | | | | | | | | | 41,441 |
| SHARES OUTSTANDING | | | | | | | | | | | | 107 |
| PRICE PER SHARE | | | | | | | | | | | | \$386 |
| CURRENT PRICE | | | | | | | | | | | | 250 |
| Upside potential | | | | | | | | | | | | 54.5% |
| NET INCOME | 398 | 469 | -44 | 831 | 1,292 | 2,060 | 2,616 | 3,120 | 3,587 | 4,128 | 4,232 | |
| % of Sales | 14.7% | 16.0% | -1.7% | 25.0% | 30.7% | 39.5% | 41.5% | 42.9% | 44.3% | 45.8% | 42.2% | |
| EPS | 3.7 | 4.4 | -0.4 | 7.7 | 12.0 | 19.2 | 24.4 | 29.1 | 33.4 | 38.5 | 39.4 | |
| PE | 104.0 | 88.4 | -938.3 | 49.9 | 32.1 | 20.1 | 15.8 | 13.3 | 11.6 | 10.0 | 9.8 | |

BEAR CASE VALUATION

| | 2020 A | 2021 A | 2022 A | 2023 A | 2024 A | 2025 E | 2026 E | 2027 E | 2028 E | 2029 E | 2030 E | PERP |
|---------------------|----------|----------|----------|----------|----------|---------|---------|---------|---------|---------|---------|--------|
| REVENUES | 2,711 | 2,923 | 2,619 | 3,319 | 4,206 | 4,563 | 4,983 | 6,110 | 6,294 | 6,484 | 6,680 | 8,500 |
| Annual Growth | | 7.8% | -10.4% | 26.7% | 26.7% | 8.5% | 9.2% | 22.6% | 3.0% | 3.0% | 3.0% | |
| EBITDA | 574 | 699 | -11 | 1,194 | 1,817 | 1,925 | 1,963 | 3,006 | 2,693 | 2,630 | 1,996 | 3,570 |
| EBITDA Margin | 21% | 24% | 0% | 36% | 43% | 42% | 39% | 49% | 43% | 41% | 30% | 42% |
| Annual Growth | | 22% | -102% | -10932% | 52% | 6% | 2% | 53% | -10% | -2% | -24% | |
| Δ WORKING CAPITAL | -562 | -337 | 999 | -527 | -483 | -113 | -137 | -158 | -175 | -195 | -217 | -213 |
| % of Sales | ▼ -20.7% | ▼ -11.5% | ▼ 38.1% | ▼ -15.9% | ▼ -11.5% | ▼ -2.5% | ▼ -2.7% | ▼ -2.6% | ▼ -2.8% | ▼ -3.0% | ▼ -3.3% | -2.5% |
| TAXES | 107 | -103 | -53 | -61 | -114 | -166 | -211 | -251 | -289 | -333 | -341 | 107 |
| % of EBITDA | 18.7% | -14.8% | 478.7% | -5.1% | -6.3% | -8.6% | -10.7% | -8.4% | -10.7% | -12.6% | -17.1% | 3.0% |
| OPERATING CASH FLOW | -96 | 466 | 1,040 | 728 | 1,448 | 1,978 | 2,037 | 3,099 | 2,806 | 2,768 | 2,120 | 3,250 |
| CAPEX | -417 | -540 | -904 | -1,387 | -1,526 | -1,527 | -1,718 | -1,843 | -1,640 | -1,460 | -1,300 | -1,020 |
| % of Sales | -15.4% | -18.5% | -34.5% | -41.8% | -36.3% | -33.5% | -34.5% | -30.2% | -26.1% | -22.5% | -19.5% | -12.0% |
| FCF | ▼ -513 | ▼ -74 | ▼ 137 | ▼ -659 | ▼ -78 | ▼ 451 | ▼ 319 | ▼ 1,257 | ▼ 1,166 | ▼ 1,307 | ▼ 820 | 2,230 |
| FCF Mgn. | -89.3% | -10.6% | -1240.8% | -55.2% | -4.3% | 23.4% | 16.2% | 41.8% | 43.3% | 49.7% | 41.1% | 62.5% |
| PRESENT VALUE | | | | | | | | 1,142 | 963 | 982 | 560 | 19,042 |
| ENTERPRISE VALUE | | | | | | | | | | | | 22,691 |
| 2026 E NET DEBT | | | | | | | | | | | | -1,366 |
| TOTAL EQUITY VALUE | | | | | | | | | | | | 21,324 |
| MINORITY INTEREST | | | | | | | | | | | | 0 |
| MAJ. EQUITY VALUE | | | | | | | | | | | | 21,324 |
| SHARES OUTSTANDING | | | | | | | | | | | | 107 |
| PRICE PER SHARE | | | | | | | | | | | | \$199 |
| CURRENT PRICE | | | | | | | | | | | | 265 |
| Upside potential | | | | | | | | | | | | -24.9% |
| NET INCOME | 441 | 329 | -312 | 910 | 1,330 | 1,408 | 1,290 | 1,954 | 1,785 | 1,603 | 886 | |
| % of Sales | 16.3% | 11.3% | -11.9% | 27.4% | 31.6% | 30.9% | 25.9% | 32.0% | 28.4% | 24.7% | 13.3% | |
| EPS | 4.1 | 3.1 | -2.9 | 8.5 | 12.4 | 13.1 | 12.0 | 18.2 | 16.6 | 14.9 | 8.3 | |
| PE | 48.4 | 64.8 | -68.2 | 23.4 | 16.0 | 15.1 | 16.5 | 10.9 | 11.9 | 13.3 | 24.1 | |

BULL CASE VALUATION

| | 2020 A | 2021 A | 2022 A | 2023 A | 2024 A | 2025 E | 2026 E | 2027 E | 2028 E | 2029 E | 2030 E | PERP |
|---------------------|--------|--------|----------|---------|--------|--------|--------|--------|--------|--------|--------|--------|
| REVENUES | 2,711 | 2,923 | 2,619 | 3,319 | 4,206 | 4,989 | 5,718 | 7,357 | 8,578 | 10,002 | 11,663 | 14,500 |
| Annual Growth | | 7.8% | -10.4% | 26.7% | 26.7% | 18.6% | 14.6% | 28.7% | 16.6% | 16.6% | 16.6% | |
| EBITDA | 574 | 699 | -11 | 1,194 | 1,817 | 2,350 | 2,697 | 4,253 | 4,977 | 6,148 | 6,979 | 7,540 |
| EBITDA Margin | 21% | 24% | 0% | 36% | 43% | 47% | 47% | 58% | 58% | 61% | 60% | 52% |
| Annual Growth | | 22% | -102% | -10932% | 52% | 29% | 15% | 58% | 17% | 24% | 14% | |
| Δ WORKING CAPITAL | -562 | -337 | 999 | -527 | -483 | -113 | -137 | -158 | -175 | -195 | -217 | -363 |
| % of Sales | -20.7% | -11.5% | 38.1% | -15.9% | -11.5% | -2.3% | -2.4% | -2.1% | -2.0% | -2.0% | -1.9% | -2.5% |
| TAXES | 107 | -103 | -53 | -61 | -114 | -166 | -211 | -251 | -289 | -333 | -341 | -151 |
| % of EBITDA | 18.7% | -14.8% | 478.7% | -5.1% | -6.3% | -7.1% | -7.8% | -5.9% | -5.8% | -5.4% | -4.9% | -2.0% |
| OPERATING CASH FLOW | -96 | 466 | 1,040 | 728 | 1,448 | 2,403 | 2,772 | 4,347 | 5,090 | 6,286 | 7,103 | 7,328 |
| CAPEX | -417 | -540 | -904 | -1,387 | -1,526 | -1,527 | -1,718 | -1,843 | -1,640 | -1,460 | -1,300 | -2,175 |
| % of Sales | -15.4% | -18.5% | -34.5% | -41.8% | -36.3% | -30.6% | -30.1% | -25.0% | -19.1% | -14.6% | -11.1% | -15.0% |
| FCF | -513 | -74 | 137 | -659 | -78 | 876 | 1,053 | 2,504 | 3,450 | 4,825 | 5,802 | 5,153 |
| FCF Mgn. | -89.3% | -10.6% | -1240.8% | -55.2% | -4.3% | 37.3% | 39.0% | 58.9% | 69.3% | 78.5% | 83.1% | 68.3% |
| PRESENT VALUE | | | | | | | | 2,276 | 2,851 | 3,625 | 3,963 | 43,997 |
| ENTERPRISE VALUE | | | | | | | | | | | | 56,713 |
| 2026 E NET DEBT | | | | | | | | | | | | -1,476 |
| TOTAL EQUITY VALUE | | | | | | | | | | | | 55,237 |
| MINORITY INTEREST | | | | | | | | | | | | 0 |
| MAJ. EQUITY VALUE | | | | | | | | | | | | 55,237 |
| SHARES OUTSTANDING | | | | | | | | | | | | 107 |
| PRICE PER SHARE | | | | | | | | | | | | \$515 |
| CURRENT PRICE | | | | | | | | | | | | 250 |
| Upside potential | | | | | | | | | | | | 106.0% |
| NET INCOME | 441 | 329 | -312 | 910 | 1,330 | 1,834 | 2,024 | 3,202 | 4,069 | 5,121 | 5,868 | |
| % of Sales | 16.3% | 11.3% | -11.9% | 27.4% | 31.6% | 36.8% | 35.4% | 43.5% | 47.4% | 51.2% | 50.3% | |
| EPS | 4.1 | 3.1 | -2.9 | 8.5 | 12.4 | 17.1 | 18.9 | 29.8 | 37.9 | 47.7 | 54.7 | |
| PE | 125.3 | 167.9 | -176.8 | 60.7 | 41.5 | 30.1 | 27.3 | 17.3 | 13.6 | 10.8 | 9.4 | |

SENSITIVITIES TO WACC

| PRESENT VALUE | | | | | | |
|---------------|-------|-------|-------|-------|-------|--------|
| WACC | 8.5% | 1,769 | 2,030 | 2,480 | 2,514 | 45,293 |
| WACC | 9.0% | 1,761 | 2,011 | 2,446 | 2,468 | 41,291 |
| WACC | 9.5% | 1,753 | 1,993 | 2,413 | 2,423 | 37,839 |
| WACC | 10.0% | 1,745 | 1,975 | 2,380 | 2,379 | 34,834 |
| WACC | 10.5% | 1,737 | 1,957 | 2,348 | 2,337 | 32,195 |
| WACC | 11.0% | 1,730 | 1,940 | 2,316 | 2,295 | 29,862 |
| WACC | 11.5% | 1,722 | 1,922 | 2,285 | 2,254 | 27,787 |

| PRESENT VALUE | | NPV | ENTERPRISE VALUE | Price P\$ | Upside |
|---------------|-------|--------|------------------|-----------|--------|
| WACC | 8.5% | 54,086 | 52,214 | \$487 | 95% |
| WACC | 9.0% | 49,978 | 48,106 | \$448 | 79% |
| WACC | 9.5% | 46,421 | 44,549 | \$415 | 66% |
| WACC | 10.0% | 43,313 | 41,441 | \$386 | 55% |
| WACC | 10.5% | 40,574 | 38,702 | \$361 | 44% |
| WACC | 11.0% | 38,143 | 36,271 | \$338 | 35% |
| WACC | 11.5% | 35,970 | 34,098 | \$318 | 27% |

SENSITIVITIES TO P/E

| | | EPS | | | | | | | | | |
|-----|-------|------|------|------|------|-----|-----|-----|------|------|------|
| | | 15 | 17 | 19 | 21 | 23 | 25 | 27 | 29 | 31 | 33 |
| P/E | 10.0x | -40% | -32% | -24% | -16% | -8% | 0% | 8% | 16% | 24% | 32% |
| P/E | 10.5x | -37% | -29% | -20% | -12% | -3% | 5% | 13% | 22% | 30% | 39% |
| P/E | 11.0x | -34% | -25% | -16% | -8% | 1% | 10% | 19% | 28% | 36% | 45% |
| P/E | 11.5x | -31% | -22% | -13% | -3% | 6% | 15% | 24% | 33% | 43% | 52% |
| P/E | 12.0x | -28% | -18% | -9% | 1% | 10% | 20% | 30% | 39% | 49% | 58% |
| P/E | 12.5x | -25% | -15% | -5% | 5% | 15% | 25% | 35% | 45% | 55% | 65% |
| P/E | 13.0x | -22% | -12% | -1% | 9% | 20% | 30% | 40% | 51% | 61% | 72% |
| P/E | 13.5x | -19% | -8% | 3% | 13% | 24% | 35% | 46% | 57% | 67% | 78% |
| P/E | 14.0x | -16% | -5% | 6% | 18% | 29% | 40% | 51% | 62% | 74% | 85% |
| P/E | 14.5x | -13% | -1% | 10% | 22% | 33% | 45% | 57% | 68% | 80% | 91% |
| P/E | 15.0x | -10% | 2% | 14% | 26% | 38% | 50% | 62% | 74% | 86% | 98% |
| P/E | 15.5x | -7% | 5% | 18% | 30% | 43% | 55% | 67% | 80% | 92% | 105% |
| P/E | 16.0x | -4% | 9% | 22% | 34% | 47% | 60% | 73% | 86% | 98% | 111% |
| P/E | 16.5x | -1% | 12% | 25% | 39% | 52% | 65% | 78% | 91% | 105% | 118% |
| P/E | 17.0x | 2% | 16% | 29% | 43% | 56% | 70% | 84% | 97% | 111% | 124% |
| P/E | 17.5x | 5% | 19% | 33% | 47% | 61% | 75% | 89% | 103% | 117% | 131% |
| P/E | 18.0x | 8% | 22% | 37% | 51% | 66% | 80% | 94% | 109% | 123% | 138% |

SENSITIVITIES TO EV/EBITDA

| | | EBITDA | | | | | | | | | |
|-----------|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 3,000 | 3,200 | 3,400 | 3,600 | 3,800 | 4,000 | 4,200 | 4,400 | 4,600 | 4,800 |
| EV/EBITDA | 7.0x | -29% | -23% | -18% | -13% | -8% | -3% | 3% | 8% | 13% | 18% |
| EV/EBITDA | 7.5x | -23% | -17% | -12% | -6% | -1% | 5% | 10% | 16% | 22% | 27% |
| EV/EBITDA | 8.0x | -17% | -12% | -6% | 0% | 6% | 12% | 18% | 24% | 30% | 36% |
| EV/EBITDA | 8.5x | -12% | -6% | 1% | 7% | 13% | 20% | 26% | 32% | 39% | 45% |
| EV/EBITDA | 9.0x | -6% | 0% | 7% | 14% | 21% | 27% | 34% | 41% | 47% | 54% |
| EV/EBITDA | 9.5x | -1% | 6% | 13% | 21% | 28% | 35% | 42% | 49% | 56% | 63% |
| EV/EBITDA | 10.0x | 5% | 12% | 20% | 27% | 35% | 42% | 50% | 57% | 65% | 72% |
| EV/EBITDA | 10.5x | 10% | 18% | 26% | 34% | 42% | 50% | 57% | 65% | 73% | 81% |
| EV/EBITDA | 11.0x | 16% | 24% | 32% | 41% | 49% | 57% | 65% | 73% | 82% | 90% |
| EV/EBITDA | 11.5x | 22% | 30% | 39% | 47% | 56% | 65% | 73% | 82% | 90% | 99% |
| EV/EBITDA | 12.0x | 27% | 36% | 45% | 54% | 63% | 72% | 81% | 90% | 99% | 108% |
| EV/EBITDA | 12.5x | 33% | 42% | 51% | 61% | 70% | 79% | 89% | 98% | 107% | 117% |
| EV/EBITDA | 13.0x | 38% | 48% | 58% | 68% | 77% | 87% | 97% | 106% | 116% | 126% |
| EV/EBITDA | 13.5x | 44% | 54% | 64% | 74% | 84% | 94% | 104% | 115% | 125% | 135% |
| EV/EBITDA | 14.0x | 50% | 60% | 71% | 81% | 91% | 102% | 112% | 123% | 133% | 144% |
| EV/EBITDA | 14.5x | 55% | 66% | 77% | 88% | 98% | 109% | 120% | 131% | 142% | 153% |
| EV/EBITDA | 15.0x | 61% | 72% | 83% | 94% | 106% | 117% | 128% | 139% | 150% | 162% |