

Building Real Solar Resilience in Europe

How policy, technology and industrial strategy
can rebuild Europe's solar value chain

PV Module Tech Europe 2025

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What resilience **is** and **is not**

IS NOT

- A trade barrier
- Shifting dependencies
- Only assembling modules
- Only sustainability criteria

IS

- A diversified and reliable supply chain
- Control of strategic steps
- EU-developed technology
- Ability to absorb supply shocks





we are
the European
home of solar



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3SUN is delivering resilience today

- 3 GW Cell & Module capacity
- In-house developed Technology
- Strict ESG and traceability standards
- Clear long-term industrial roadmap

Value is recognised but the gap is still too wide

Market signals

- Demand for **traceable, ESG**-compliant modules
- Developers seek to diversify supply chains
- Preference for **EU production** when viable

But...

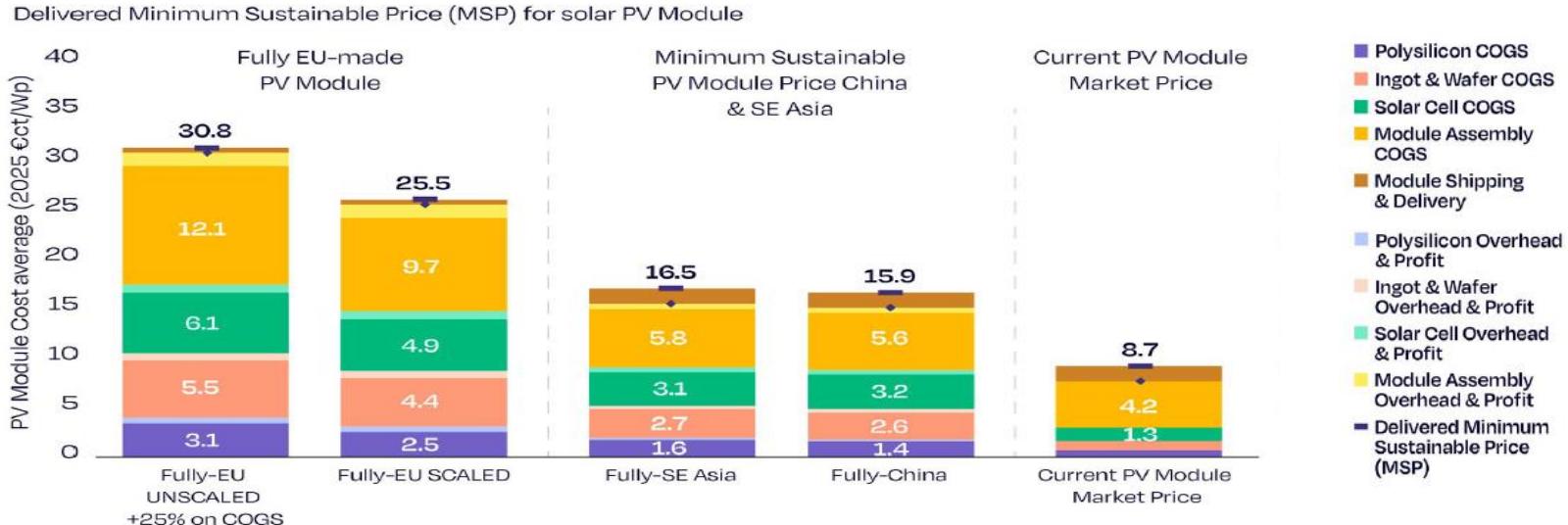
- **Price and cost gap** remains **too large** today
- Projects cannot absorb today's **premium**



The cost gap is structural

Even for Europe's largest fabs

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Source: Fraunhofer ISE via SolarPower Europe (2025) Reshoring Solar Module Manufacturing to Europe: A Cost Gap Analysis and Policy Impact Simulation

- FhISE assumes **10 GW scaled** EU factories running at 100% capacity
- Ramp-up phases and low utilization rates further widen the cost gap

Building resilience requires stable long-term market pull

Predictable demand at sustainable prices
is **essential** for EU Manufacturing

Long-term **market pull**
drives scale, cost reduction, and local supply chain development



NZIA brings resilience into the EU's solar market



Three major novelties

- **Resilience** and **sustainability** criteria in public auctions starting in 2026 (min. 30% of volumes)
- **Non-dominant country** sourcing for strategic components
- Non-price criteria allowed for **pre-qualification** and **award decision**

The NZIA resilience components

Modules	
Cells	
Inverters	
Trackers, Wafers, Glass, Polysilicon	

and where
3SUN makes
the difference

GW-scale **module manufacturing**,
with integrated GW-scale **cell
manufacturing**, a capability absent in
Europe today, and based on
proprietary 3SUN technology

Italy ■ ■ anticipated NZIA in the 2025 FER-X auctions

8 GW General Auction

Open to all PV suppliers

1.6 GW “Resilient” Auction

Restricted to modules meeting
NZIA resilience criteria

Implementation

- 4 NZIA Strategic Components used as pre-qualification
- Applied only to the Resilient auction
- No Resilience based awarding criteria

How future auctions can strengthen EU resilience

Learning from Italy's early NZIA implementation

1. Enable WTO-compliant “**Made in EU**” **resilience criteria**
2. Recognize **integrated cell** and **module** manufacturing as strategic
3. Reward manufacturers developing EU-based **technology platforms**

The path forward: Building Real Solar Resilience in Europe



Resilience matters
for Europe's long-term
energy security



NZIA can work
if implemented well
*for predictable, sustainable
long-term market pull*



3SUN stands ready
*with GW-scale cell & module
capacity and own technology*

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