



Sustainable, High-throughput, Industry-ready, Next-generation technology for European manufacturing leadership in PV

SHINE PV is an innovative project focused on advancing photovoltaic (PV) manufacturing technologies, particularly for **Silicon Heterojunction (SHJ)** and **Tunnel Oxide Passivated Contact (TOPCon)** solar cells.

The project aims to:

- Develop alternative technological routes for three critical back-end manufacturing steps: metallization, post-processing, and interconnection.
- **Improve solar cell efficiency by 0.5% absolute while cutting overall cost of ownership (CoO) by 20%.**
- Enhance manufacturing efficiency, reduce costs, and strengthen the European PV supply chain.

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