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Increase the competitiveness of the EU PV manufacturing industry

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High-performance low-cost modules with excellent environmental profiles for a competitive EU PV manufacturing industry

HighLite- Deliverable report

D3.11- Evaluation of prototype platform for I-V testing and EL of shingles

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About HighLite

The HighLite project aims to substantially improve the competitiveness of the EU PV manufacturing industry by developing knowledge-based manufacturing solutions for high-performance low-cost modules with excellent environmental profiles (low CO_2 footprint, enhanced durability, improved recyclability). In HighLite, a unique consortium of experienced industrial actors and leading institutes will work collectively to develop, optimize, and bring to high technology readiness levels (TRL 6-7) innovative solutions at both cell and module levels.

HighLite consortium members

Document information

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Publishable summary

A prototype platform capable of accurately testing of SHJ cut-cells has been developed.

The developed prototype is capable of simultaneous I-V, Electroluminescence and Hot Spot characterization and classification of up to three shingles with a significant reduction of the total cycle time.

The accuracy and repeatability have been tested with good results, comparable with commercial and modern Solar Simulators.

The prototype presented could be integrated in a high-throughput production line and two different proposals have been evaluated and presented.