

The Solar Manufacturing Accelerator presents:

MCPV - Connected PV Manufacturing



Project

Solar HJT cell/module factory



CO2 emissions reduction: 660,000 tons

per year (295 g/kWh and 1,500 kWh/kWp)



Production capacity

15 GW by 2026



Jobs created

9,000+ jobs



Total investment

€1.9 billion



Efficiency of panels: HJT Technology Roadmap until 2030

secured (up to 30% cell efficiency). HJT High Efficiency Module (>500 W), High reliability (zero PID) enabling lowest LCOE.



Additional supply-chain partner companies in progress: Glass, Wafer, Cell, Junction box, Encapsulants, IPPs

Locations:



MCPV is developing an EU manufacturing platform that aligns the European solar value chain towards **sustainable re-industrialization**, encompassing the entire solar manufacturing ecosystem, and delivering on the goals of the European Green Deal.

MCPV aims to achieve a long-term sustainable competitive advantage through:

- Implementing critical mass of at least **15 GW of HJT cell & module manufacturing plants by 2026**
- Pan-European integrated value chain approach allowing maximum **cross-domain optimization**

- Bottom-up Digital Twin approach to **integrate industrial AI**
- Aim for **zero carbon footprint** across supply chain
- **Eco-Design** and full recycling pathway
- **Technology roadmap** to ensure long term market leadership

MCPV estimates that its HJT modules will be able to achieve market shares ranging from 10% to 40%, depending on market proximity and regulatory requirements in relation to carbon footprint, cradle-to-cradle, and local content.

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