

The Solar Manufacturing Accelerator presents:

Oxford PV



Project: Solar perovskite-on-silicon tandem cell factory expansion



CO2 emissions reduction: 8 million tons CO2 per year, >20% less CO2 than incumbent technologies



Total investment
€ 250 million



Jobs created
3,000 direct jobs, 4,500 indirect jobs



Production capacity
10 GW in 2024



Cell efficiency potential:
+35%



Locations:



At their current state, silicon PV solar cell technologies will reach their 25% efficiency limit in just a few years. With its **efficiency world record** established in 2018, Oxford PV's innovative and proven perovskite-on-silicon tandem cells can break this limit – starting now with 26% efficiency, and **on the road to achieving 35% efficiency**. This EU-developed technology is compatible with existing industry infrastructure, and is the best commercial option for making solar energy significantly more cost-efficient and sustainable than incumbent technologies.

With a lab-to-fab-to-market chain which includes partners in Germany, UK, France, Austria, Switzerland, and Norway, the technology will be **brought to market in 2021**. Sustained by strong EU-developed IP, this project will expand Oxford PV's EU-based manufacturing from MW-scale to GW-scale by 2024. An anticipated EUR 250 million of additional investment is required to achieve a significant market share of PV demand in the EU. This project will enable **EU manufacturing to take a global leadership position** in next generation solar PV technologies.