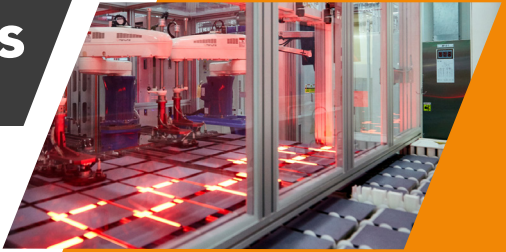




Learn more from our
Newsletter

Pilot line for European production of perovskite/silicon tandem modules



PEPPERONI



Approach

Covers performance,
manufacturing and
socioeconomic
aspects



Duration

4 years to advance
perovskite/silicon
tandem technology
and speed up mass
manufacturing



Network

17 leading players of
Europe united in a
joint effort cover the
full value chain of PV
innovation



Co-funded by
the European Union



This project is co-funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Climate, Infrastructure and Environment Executive Agency (CINEA). Neither the European Union nor the granting authority can be held responsible for them. The project is also supported by the Swiss State Secretariat for Education, Research and Innovation (SERI).

Next generation

solar cells & modules

PEPPERONI advances PV technology by developing highly efficient and durable perovskite/silicon tandem cells and modules. With the goal to identify and implement the best methods to produce tandem modules with superior efficiency and a lifespan of over 30 years and minimal environmental impact, the project will lay the groundwork for large-scale manufacturing deployment. Our work spans multiple levels:

Tandem technology development

Tandem technology assessment

Tandem cell & module pilot line

Coordination & outreach

Boosting efficiency

with perovskite

Our tandem design leverages the proven industrial expertise of silicon PV and incorporates novel materials to significantly extend the achievable power conversion efficiency (PCE).

