



NEXUS

NEXUS interuniversity Tandem Perovskite Challenge!

Open to individuals and teams in NEXUS partner organisations (KIT; UOXF; UVEG), with 5 places per organisation. The challenge concentrates on **outdoor durability and performance of perovskite tandem devices**.

Device specifications:

- 1 cm x 1 cm
- Working tandems
- Fully sublimed top cell
- At least 22% efficiency

CEA will provide bottom cells and encapsulate

Devices must be sent to **CEA** by **mid-September 2024** and after encapsulation and characterization will be monitored by **EURAC for 6 months** from **November 2024** to **April 2025**.

The **winning cell** will be the one that demonstrates the best and most sustainable performance, as in:

- 50% of the score from cell energy yield (kWh/Wp) over 6 months.
- 50% of the score from sustainability assessment EF/kW - single score points from EF_{3.x} method, or gCO₂-eq)

Participation benefits and prizes are:

- Invited oral presentation at PSCO 2025
- Poster at PSCO 2025

All participants will be co-authoring a paper with EURAC on the comparative performance of the measured cells

Project Partners



eurac
research



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