

## EU PVSEC 2026 Parallel Event: *Opportunities for Sustainable Perovskite PV Commercialisation* (15/09/26 | 13:30-15:00)

### Short Summary

This event, co-organized by nine EU projects, will explore the broader perspective on sustainable commercialization of perovskite-based PVs. Researchers, industry, and policymakers together will delve on timely sub-topics such as: Key requirements to market uptake including technology upscaling, pilot lines, resource and equipment needs; Sustainable and circular value chains for wide deployment; Life Cycle Assessment and acceptability; and Policies and framework conditions for commercialization. The discussion will identify critical gaps, lessons learned and actionable pathways to enable the large-scale, sustainable deployment of perovskite PV in Europe.

### Detailed Description

The Parallel Event “Opportunities for Sustainable Perovskite PV Commercialisation” will focus on discussions in the following areas:

- **Key requirements to market uptake**, including technology upscaling, pilot line development, manufacturing constraints, resource and equipment needs, as well as lessons learned from ongoing EU projects.
- **Sustainable and circular value chains for wide deployment**: The role of circular economy approaches in enabling resilient European supply chains, addressing material availability, recycling pathways and long-term sustainability.
- **Life Cycle Assessment and acceptability**: Insights from LCA, LCC and sLCA on current perovskite technologies, including stability and durability, and their implications for industry adoption and ESG requirements.
- **Policies and framework conditions for commercialisation**: Alignment with EU policies and regulatory frameworks, including standards, certification and testing needs required to ensure safe, compliant and scalable deployment.

The event will be tailored for a **diverse target audience** interested in the topics new PV technologies – Sustainability – Commercialization and will include:

- **Industry** representatives from the PV manufacturing and solar energy sectors, including materials and equipment manufacturing, PV producers and recycling companies.
- **Policymakers, regulatory bodies, EU funding bodies** focused on energy, sustainability, circular economy.
- **Innovators** exploring perovskite integration into sectors like mobility, agriculture, construction.
- **Entrepreneurs and startups** are working on sustainable energy solutions.
- **Research scientists** focusing on perovskite and solar cell technologies.

## Agenda

|       |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 13:30 | 0:05 | <b>Opening Remarks: “Landscape of perovskite PV developments in Europe”</b><br><i>Thomas Kraft (VTT, PERSEUS/PEARL)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 13:35 | 0:15 | <b>End-user point-of-view Plenary talk: “Scaling PV Technology: Sustainability, Reliability, Safety and O&amp;M implications”</b><br><i>João Gaspar (EDP, National Energy Company, Portugal, PERSEUS)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 13:50 | 0:35 | <b>EU Project sub-topic presentations:</b> <ul style="list-style-type: none"> <li>▪ <b>Industrialisation &amp; pilot lines</b><br/> <i>Martin Fischer (Von Ardenne, PEPPERONI),<br/> Thomas Rath (Graz University of Technology / SMARTLINE-PV)</i> </li> <li>▪ <b>Circularity &amp; recycling / LCA</b><br/> <i>Roberto Magnifico (ULiege, PEPPERONI),<br/> Balazs Imre (FZ Juelich / CIRCULAR-PV)</i> </li> <li>▪ <b>Digitalisation / manufacturing optimisation</b><br/> <i>Ilker Dogan (TNO, LUMINOSITY),<br/> Markus Kohlstaedt (University of Freiburg / EMPOWER#IoT)</i> </li> <li>▪ <b>Environmental, economic and social perspectives on supply chain and materials</b><br/> <i>Karina Rohrer (FHNW, PEARL)</i> </li> </ul> <p><i>Chair: Thomas Kraft (VTT)</i></p> |
| 14:25 | 0:35 | <b>Panel discussion: “Can perovskite PV meet EU sustainability and market requirements?”</b><br><br><i>Moderators: Thomas Kraft (VTT), Thomas Rath (Graz University of Technology), Ilker Dogan (TNO)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 15:00 |      | <b>End of Parallel Event.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## Project Logos

Attached to this document.

## Funding acknowledgements



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