

## PHOTORAMA EUSEW Energy Day on PV circularity Brussels, Wednesday 21 June 2023, 9:00-14:00h

The H2020 PHOTORAMA project (<https://www.photorama-project.eu/>) is working on a photovoltaic (PV) circular model focusing on PV waste management. It organises a half-day workshop on developments in PV circularity, its framework conditions and legal perspectives in Brussels, Belgium.

This workshop takes place in the frame of the European Sustainable Energy Week (EUSEW) and features as a EUSEW Energy Day: [https://sustainable-energy-week.ec.europa.eu/sustainable-energy-days\\_en](https://sustainable-energy-week.ec.europa.eu/sustainable-energy-days_en)

**Date:** Wednesday, 21 June 2023, 9:00-14:00h

**Location:** Permanent Representation of Austria to the EU, Av. de Cortenbergh 30, 1040 Brussels (in the EU quarter, close to EC Charlemagne Building)

**Participants:** about 30 experts and stakeholders working on energy and related fields, participants in EUSEW, stakeholders of PHOTORAMA and other EU funded projects in the field.

**Registration:** event is **free of charge**, registration is required

### Procedure:

- The PHOTORAMA Energy Day will be held face-to-face in Brussels, Belgium, in the frame of EUSEW.
- It will mix interactive methods (quiz, exposition of PHOTORAMA samples), presentations, and Question & Answer sessions.
- It will be organised and moderated by Centre for Social Innovation (ZSI).

### Purpose of PHOTORAMA EUSEW Energy Day

PHOTORAMA's main objective is to increase the circularity of PV panels. Beyond developing appropriate technologies to recycle PV panels, PHOTORAMA aims to understand under which conditions and in what contexts those technologies can be introduced.<sup>1</sup>

At this PHOTORAMA EUSEW Energy Day we will give an update on PHOTORAMA work, as well as of related EU funded projects such as CIRCUSOL. Key issues we plan to discuss at the Energy Day include:

- What is the status of PV waste management and recycling in Europe and PHOTORAMA's contribution to it?
- Highlights on PV waste stream, collection stage and standards for waste characterisation.
- What are the perspectives of the EU legal framework for PV waste management?
- What are the perspectives for glass recycling from PV panels?
- PV circular model: what about re-use of PV panels and recovered materials in Europe?

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<sup>1</sup> See our PHOTORAMA blog section for preliminary results of our stakeholder survey on awareness of PV panel related issues and recyclability, and co-creation workshops on technology aspects and framework conditions for PV recycling:

<https://www.photorama-project.eu/we-asked-the-stakeholders-answered-current-knowledge-about-pv-panel-recycling-in-the-eu/>

- What kind of framework conditions are key for making PV circularity a success: Political, Economic, Social acceptance, Technological, Environmental, and Legal/regulation<sup>2</sup> factors in the external environment?
- Explaining PHOTORAMA samples, such as delaminated PV panels.

| <b>Agenda</b>   |
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| <p><b>09:00 – Welcome &amp; Introduction</b></p> <p>Quiz time: test your knowledge on PV recycling and its framework conditions<br/>Manfred Spiesberger, Tess Landon (ZSI, Austria)</p>   |
| <p><b>09:20 – The PHOTORAMA solutions to PV recycling and raw material recovery</b><br/>(1) Introduction to the objectives and technological development, (2) Status, development and highlights for legal perspectives (30min) and Q&amp;A session (10min)<br/>Claire Agraffeil (CEA, France, PHOTORAMA coordinator)</p> |
| <p><b>10:00 – European Critical Raw Materials (CRM) Act: Proposal for a Regulation - establishing a framework for ensuring a secure and sustainable supply of critical raw materials</b></p> <p>Maria Nyberg (European Commission, DG Grow, Belgium); 20min presentation &amp; 10min Q&amp;A</p>                          |
| <p><b>10:30 – Recycling technologies for critical raw materials from EoL products (HORIZON-CL4-2023-RESILIENCE-01-05)</b></p> <p>Susana Xara (European Commission, HaDEA, Belgium); 10min presentation &amp; 5min Q&amp;A</p>   |
| <p><b>10:45 – Glass recycling from PV panels</b></p> <p>Wim Merket (Maltha Glass recycling/Renewi, Belgium, plant manager); 20min presentation &amp; 5min Q&amp;A</p>   |
| <p><b>11:10</b><br/><b>Coffee Break</b></p>   |
| <p><b>11:40 – Supply chain analysis and material demand related to Photovoltaics</b><br/>Michalis Christou, Samuel Carrara (European Commission, Joint Research Centre); 20min presentation &amp; 5min Q&amp;A</p>  |
| <p><b>12:05 – The WEEE forum perspective on overhauling the Extended Producer Responsibility (EPR), relevance for PV</b></p> <p>Pascal Leroy (WEEE forum, Belgium, Director General); 20min presentation &amp; 5min Q&amp;A</p>   |
| <p><b>12:30 – CIRCUSOL project: circular business models for the PV sector- PV reuse in EU market segments</b></p> <p>Tom Rommens (VITO, Belgium, Senior Researcher &amp; CIRCUSOL coordinator); 20min presentation &amp; 5min Q&amp;A</p>  |

<sup>2</sup> See for example our blog article *EU regulation pushing forward PV recycling: the WEEE directive*: <https://www.photorama-project.eu/eu-regulation-pushing-forward-pv-recycling-the-weee-directive/>

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| <p><b>12:55 – Wrap-up &amp; Closing</b><br/>Claire Agrafeil (CEA) &amp; Manfred Spiesberger (ZSI)</p>  |
| <p><b>13:00</b><br/><b>Light lunch (sandwiches) &amp; networking</b><br/><b>Check out the PHOTORAMA samples, e.g. delaminated PV panels, etc. – guided visit</b></p> |
| <p><b>14:00</b><br/><b>End of PHOTORAMA EUSEW Energy Day</b></p>   |