

SESSION 3: BREAK-OUT SESSION ON

Review of Treatment and Recycling Methodologies for Perovskite and Emerging PV

Day 2

13-14th March, 2023

LCA Methodology Harmonization Workshop, Brussels.

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Defining the Outcome

Do you see needs for harmonization and where?

- Laura: glass recycling lack of harmonization
- Martin: remanufacturing the module. Northern countries require cells with higher efficiency
- Diana: how sustainable it is remanufacturing/reassembling. Scenarios considered at the end-of-life (analysing more likely business case)
- Mirjam: Need of prospective LCAs going from current state of technology- to what it shall be in the future. Implement prospectiveness in EoL
- Diana: Importance to include economic aspects (technology can be in place but not being economically feasible)
- Comment from audience: Balance of system consideration shall be included and agree on what parameters to use for lifetime, power...

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Defining the Outcome

What are the main challenges in reaching harmonization?

- Economical feasibility
- Some technologies still very immature: decide the most likely technology to be in the future
- Cooperation with recyclers: pyrolysis in the Netherlands, big pilot line opening in France
- How was previous experience of LCA practitioners with silicon? When the first silicon panel were being developed

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Defining the Outcome

What do you see as next steps and who should do it?

- Framework that helps us to navigate this field
- Learning curves of already developed technologies
- Labelling, material passport (issues with glass recycling that contains Antimonium)

Breakout Session 1: LCA parameters, background database and impact assessment method selection

Breakout Session 2: Review of treatment and recycling methodologies

Breakout Session 3: Review of PEFCR default parameters for Perovskites, emerging PV and PV technologies

Breakout Session 4: Review beyond LCA

Breakout Session 5: Issues of reporting