Project Work: Life Cycle Assessment (LCA)

Introduction

The final project of the SummedPV Summer School invites you to build a Life Cycle Assessment (LCA) on a real-world case, focusing on either an electronic component or a PV module. Working in teams, you will define goal and scope, assumptions, develop the LCI and LCIA, identify hotspots, and propose eco-design improvements. The project culminates in a concise summary report and a short oral presentation. Below you'll find the required deliverables and the evaluation criteria.

Required Deliverables

1. **Summary Report:** A concise report (maximum 3 pages, excluding appendices, if any) that documents your methodology, assumptions, LCI, LCIA results, interpretation, and eco-design recommendations.
2. **Oral Presentation:** A 15-minute presentation to faculty and peers, summarizing the key findings of your analysis and your recommendations. The presentation does not necessarily need to be in PowerPoint format; it may also consist of a simple projection of the written report accompanied by your commentary.

Evaluation Criteria

Your project will be evaluated based on the following:

- **Methodological Correctness (33%):** The accuracy of your LCA model, including the associations between the different components and the Ecoinvent datasets. The clarity with which you define your assumptions, system boundaries, and data sources.
- **Analysis and Interpretation of Results (33%):** The quality and correctness of your results analysis and interpretation, including the way you identify hotspots and suggest possible improvements.
- **Quality of Deliverables (33%):** The quality of your report and of your oral presentation, considering also the level of involvement of each member of the group.