One-day course for students with basic LCA knowledge at TU Darmstadt

Take part in our study about life cycle assessment of packaging and receive a certificate of participation on basic modelling with openLCA

Within the scope of the AI innovation lab[1] – research sponsored by the German Federal Ministry of Education and Research – the TU Darmstadt, the Fraunhofer institute UMSICHT[2] and quo data[3] are conducting a study on LCA of packaging. This study aims to analyse the influence of LCA practitioners and their choices. The goal is to identify the extent and causes of variability and uncertainty from modeller's choices. We invite students to participate in a one-day course at the TU Darmstadt to test and demonstrate their LCA knowledge. The task is to create a simple LCA model for a fictitious packaging (all information will be provided in the course).

Benefits of participating and further information: Your contribution will help us to better understand the uncertainties arising from the choices made by the LCA modeller. For participants who answer the questionnaire and submit complete results, we will hand out a certificate of participation in the study and the conduction of an LCA study in the packaging sector that will be sent to you via mail after the course. This certificate can later be used, for example, to demonstrate evidence of experience in the LCA field and the openLCA software. At the same time, you can test and validate your LCA knowledge by modelling the case study example yourself.

When: 04 June or 23 July 2025

Where: TU Darmstadt (Building L5|01 Room 130)

Requirements for participation (you should fulfil at least level 1 as a minimum):

- **Level 1: Basic LCA knowledge but no experience with the LCA software openLCA**, e.g. you have already attended a course, such as SALCA 1, LCA & SWM and more at TU Darmstadt or other. To take part in the course, it is necessary that you complete a tutorial on how to use openLCA beforehand (duration approx. 2-3 hours). The tutorial will be sent out after registration and shall be completed independently in advance.
- **Level 2: Modelling experience with open LCA**. You know how to create flows and processes, select providers and run the calculation of environmental impacts in a product system. You fulfil all the requirements for participation and can register without preparation.

Duration: The course will **start at 10:15 am for level 1** (Q&A session about the preliminary tutorial) and **11:15 am for level 2** (introduction to the task and independent modelling with openLCA). The **expected end is at 3:00/4:00 pm**.

Data protection: All results will be submitted and analysed anonymously as part of the research project. No conclusions can be drawn about your person.

Are you interested?. If you would like to join, please contact Tabea Hagedorn t.hagedorn@iwar.tu-darmstadt.de

[1] https://www.ki-hub-kunststoffverpackungen.de/en/ai-hub, project no. (FKZ) 033KI102
[2] https://www.umsicht.fraunhofer.de/en.html
[3] https://www.quodata.de/en