

Emerging Technologies for the Circular Economy

SS23

Exercise – 03

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Deadline: 15.05.2023 – 13:59

Task(s):

1.) What is the environmental Impact of your favourite food?

- Pick your favourite fruit/vegetable that you regularly buy at the grocery store.
- Compile a comprehensive list of all required resources that go into the production of this fruit/vegetable.
- With the information you gathered, compute the environmental impact of the product system using LCA.
- Your computation must at least consider the processes of production of the fruit/vegetable and the transportation of the fruit/vegetable from the “farm” to the grocery store (or where you bought it from).
- You can use the automated tools provided by [OpenLCA](#) to do this easily.
- [OpenLCA Nexus](#) has a collection of datasets, e.g., the Agribaylase dataset which contains existing LCA and LCI studies, which you can use to model your product system.

Submission:

- Submit the results as a PDF file.

Submission location:

Göttingen Students: StudIP

TU Clausthal Students: Moodle

Questions? : etce-etce@tu-clausthal.de