



CONSEQUENTIAL LIFE CYCLE ASSESSMENT

This two-day course is for the attributional LCA practitioner who wants to add consequential LCA to the repertoire and gain practical skills in consequential life cycle inventory modelling. We will work hands-on with exercises and the participants' own cases. The course will provide all the arguments and tools you need to understand the role of consequential LCA for hotspot identification, labelling, and decision support in general. You will learn about the simplifications and cost reductions that consequential LCA can bring, compared to your current practice. We will discuss the application areas and advantages and disadvantages of both types of modelling, and their relation to the relevant standards and guidelines, such as the ISO 14000-series of standards and the EU PEF guidelines.

The course

COURSE OUTLINE

Prior to the course: On-line video lectures

You obtain the necessary theoretical ballast through watching on-line video lectures, allowing you to study at your own speed and note down the questions you want to raise with the teachers and fellow course participants.

Tuesday 13th September, 9:00-13:00: Questions & Answers & Interaction
Questions arising from the videos will be answered and elaborated. Topics covered are attributional and consequential responsibility, choice of system model for environmental product declarations, the relation to the ISO 14040-series and PEF, typical errors in LCA practice, and learning from non-intuitive results.

Tuesday 13th September, 15:00-19:00: Exercises & Questions & Answers
Practical exercises and Q&A on identifying the determining product, handling of co-production/recycling by substitution/system expansion, and the importance of product system boundaries: cut-off rules, geographical boundaries, time horizon, rebound effects, etc.

Wednesday 14th April, 9:00-13:00: Group exercises and feedback
Group exercises with specific tasks and support.

Wednesday 14th April, 15:00-19:00:
Group exercises continued and plenum discussion on communication issues.



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LEARNING OUTCOMES

- A detailed understanding of both attributional and consequential modelling, the calculation algorithms, and how to interpret the results
- An understanding of the normative assumptions in the two models and relative uncertainty of the results.
- An understanding of consequential modelling in relation to compliance with the ISO standards and EU guidelines.
- A detailed understanding of the conceptual and practical applicability of attributional and consequential results.
- Practical skills in identification of market delimitations and trends as required for consequential modelling.
- Ability to identify determining products, especially in situations where several co-products have alternative production routes.
- Ability to identify long-term constraints on production and consumption and to identify marginal suppliers and consumers based on current market trends and production costs.
- Ability to model the effect of changes in demand for a recycled product under different market conditions.
- Ability to model co-products by substitution in any situation.
- Understanding the data sources for consequential modelling.
- Practical skills in explaining and justifying consequential models, assumptions, and results to laypersons and decision makers.

TEACHING STAFF

Prof. Bo Weidema, Aalborg University and 2.-0 LCA consultants

LOCATION

Paris or Massy, France. Detailed location to be determined.
Local organizer: Gingko21.

PARTICIPANT PREREQUISITES

Practical experience with LCA. Must bring own laptop computer.

COST

1 500 € HT

REGISTRATION

<https://framaforms.org/pre-inscription-aux-formations-2022-1649926400>
or contact directly: contact@gingko21.com

REGISTRATION DEADLINE

End of august 2022



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