



## 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.

##### *Thursday 13th April, 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.

##### *Thursday 13th April, 14:00-18:00: 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.

##### *Friday 14th April, 9:00-13:00: Group exercises and feedback*

Group exercises with specific tasks and support.

##### *Friday 14th April, 14:00-18:00:*

Group exercises continued and plenum discussion on communication issues.



#### **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.-o LCA consultants

#### **LOCATION**

Paris region, France

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-2023-1649926400>

or contact directly: [contact@gingko21.com](mailto:contact@gingko21.com)

#### **REGISTRATION DEADLINE**

End of march 2023

