

## Advanced “remote learning” openLCA Seminar

**Flexible:** Start learning now

**Customized:** Deepen your insights on advanced topics

**Effective:** Quick responses guaranteed



### At a glance

<b>Duration</b>	3 months
<b>Content</b>	6 modules; advanced
<b>Support</b>	Online meetings (30 minutes per modules) & E-Mail quick reply during e-course
<b>Learning material provided</b>	Manual (theoretical information) & practical exercises with solutions

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## Introduction to the Advanced “remote learning” openLCA Seminar

openLCA is a free, open-source, and professional Life Cycle Assessment (LCA) and sustainability assessment software with many features. It is easy to use and includes all of the latest technical advancements in the LCA field. It is developed and maintained by GreenDelta GmbH.

With the aim of making openLCA trainings more flexible, customized to your individual needs and more effective, GreenDelta offers a training format for remote learning: **The Advanced openLCA Seminar**.

This online course lasts **three months** and consists of around six modules each of which is accompanied by theoretical background information, practical exercises and an online meeting with a teacher. Additionally, participants can send E-Mails to the teacher and will get a quick response.

The content of the course is adapted to the participants’ requests. An exemplary list of content looks like this:

- A. Modelling with parameters:
  - Types of parameters in openLCA
  - Creation of new parameters
  - Sensitivity analysis with parameters
- B. Calculation and interpretation of LCI and LCIA results:
  - Direct vs. Upstream total contributors
  - Calculation properties set up
  - Results analysis tab by tab
  - Interpretation guide
- C. Advanced modelling of product systems (part 1):
  - Handling multi-functional systems in openLCA
  - Uncertainty analysis in complex product system
- D. End-of-Life modelling:
  - End-of-Life modelling in different LCA databases
  - End-of-Life modelling in openLCA
- E. Advanced modelling of product system (part 2):
  - Different modelling options of the LCA stages in a product system
  - Modelling of product systems with internal recycling/loops
- F. On demand topics (Presentation + 30-min Discussion):
  - e.g. Environmental Product Declaration

For each module (A to F), the learning material will be provided in the form of



**Manual**, containing the theory for the relevant topics, in pdf format .



**Practical exercises** using free databases available in openLCA Nexus:

- Description of the case study, with a compilation of exercises to practice the theory included in the manual, in pdf format. The solutions for the exercises will be included at the end,
- database (\*.zolca format) necessary for carrying out the exercises, and
- database (\*.zolca format) with the exercises solved.

Note: Module E requires a valid ecoinvent v.3 licence. If the participant does not own this licence, only the Manual will be handed over, but not the exercises.

## How it works

The course is intended to last 12 weeks. During that time, the participant will receive the learning materials corresponding to each module as specified below. All documents will be shared through the ownCloud platform and the materials for each module will be available for the complete duration of the course.

Module		Week												
		1	2	3	4	5	6	7	8	9	10	11	12	
A	Modeling with parameters		★											
B	Calculation and interpretation of LCI and LCIA results				★									
C	Advanced modeling of product systems (Part 1)						★							
D	End-of-Life modeling								★					
E	Advanced modeling of product systems (Part 2)										★			
F	On-demand topic (Prasentation + 30-min Discussion )													★

★ - Online meeting

The students have the possibility of an online meeting of 30 minutes per module to clarify doubts. For the last module, the students have the possibility to select whether to have a 60-min. presentation with exercises or proceed with the regular study structure, (i.e. 2 weeks self-preparation + 30 min Q&A-session). GreenDelta will provide a link to the online meeting for the agreed date. Online-call or local phone number<sup>1</sup> is a possibility, if required.

Additionally, the students can contact the teacher by E-Mail and GreenDelta ensures a **reply within three working days**.

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<sup>1</sup> Works for the following countries: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany,

Ireland, Italy, Netherlands, New Zealand, Norway, Spain, Sweden, Switzerland, United Kingdom and United States



## How to acquire the training

This training package can be ordered and purchased directly at our [openLCA Nexus website](#). Once the order has gone through, you will obtain all of the training material and be assigned to one of our openLCA trainers at GreenDelta.



**The fee** for the complete advanced e-learning course is 900 €; 750 € reduced fee for university participants and is due in advance. The fee quoted above is exclusive of VAT.



**Prerequisite:** As this is an advanced course, intermediate knowledge in working with openLCA is required to be able to follow the content.

## About GreenDelta

GreenDelta has been developing openLCA since 2006. We continuously improve the software, expand its features and capabilities and keep it up-to-date with current life cycle assessment practice. We are at the LCA forefront, offering specialized features like regionalized LCIA and the most recent version of ecoinvent database. Next to software development, GreenDelta also offers sustainability consulting services such as guided case studies, research, critical reviews, Environmental Product Declarations, social LCA studies, and data management solutions.



**Contact us** with any suggestions, comments or questions!



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