

Advanced “remote learning” openLCA Seminar

Flexible: Start learning now

Customized: Deepen your insights on advanced topics

Effective: Quick responses guaranteed

At a glance

Duration	3 months
Content	5 modules; advanced, customized topics
Support	Online meetings (30 minutes per module) & E-Mail quick reply during e-course
Learning material provided	Manual (theoretical information) & practical exercises with solutions
Fee	750 € (+VAT)

What you get

openLCA is a free 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.

With the aim of making openLCA trainings more flexible, customized to your individual needs and more effective, GreenDelta now offers a new format: The **Advanced openLCA Seminar**. This online course lasts **three months** and consists of around **five 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:**
 - A.1. Types of parameters in openLCA.
 - A.2. Creation of new parameters.
 - A.3. Sensitivity analysis with parameters.
- B. Calculation and interpretation of LCI and LCIA results:**
 - B.1. Direct vs Upstream total contributions.
 - B.2. Calculation properties set up.
 - B.3. Results analysis tab by tab.
 - B.4. Interpretation guide.
- C. Modelling of complex product systems:**
 - Part 1**
 - C.1. Allocation and system expansion in product systems with by-products.
 - C.2. Uncertainty analysis in complex product systems.
 - Part 2**
 - C.3. Different modelling options of the LCA stages in a product system.
 - C.4. Modelling of product systems with internal recycling/loops.
- D. End-of-life modelling:**
 - D.1. End-of-life modelling in different LCA databases.
 - D.2. End-of-life modelling in openLCA.
- E. Ecoinvent 3.1 database:**
 - E.1. Evolution of the data format from EcoSpold1 to EcoSpold2.
 - E.2. Markets modelling.
 - E.3. System models: allocation model, substitution model, cut-off model. Differences and use recommendations.
 - E.4. Modelling product systems using Ecoinvent 3.1 database in openLCA.

For each module (A to E), 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
- openLCA database (*.zolca format) necessary for carrying out the exercises
- openLCA database (*.zolca format) with the exercises solved

If the participant does not own a valid openLCA ecoinvent 3.1 licence, for module E only the manual will be provided.

How it works

For the **registration** go on the [openLCA website](#), fill in the registration form and return it to us by E-Mail, mail or fax.

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	Modelling with parameters	★											
B	Calculation and interpretation of LCI and LCIA results		★										
C (1)	Modelling of complex product systems (Part 1)			★									
C (2)	Modelling of complex product systems (Part 2)					★							
D	End-of-life modelling							★					
E	Ecoinvent 3.1 database										★		

★ Online meeting

The students have the possibility of an **online meeting** of 30 minutes per module to clarify doubts. GreenDelta will provide a link to GoToMeeting for the agreed date. The students can access the meeting online, or call to a local phone number².

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

¹ The dates for the online meetings can be modified by the participants with the approval of GreenDelta.

² 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



The fee for the complete advanced e-learning course is 750 € (+VAT) and is due in advance.



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

Your trainers



Cristina Rodriguez
Environmental Consultant



Franziska Möller
Environmental Consultant



Andreas Ciroth
Founder & Managing

Still have doubts about e-learning?

This [study from MIT](#) reveals that online classes really do work!

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 theecoinvent 3.1 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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