

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	6 modules; advanced
Support	Online meetings (30 minutes per modules) & e-mail quick reply during e-course
Learning material provided	Manual (theoretical information) & practical exercises with solutions

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 **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 contributions
 - 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 systems (part 2):
 - Different modelling options of the LCA stages in a product system
 - Modelling of product systems with internal recycling/loops
- F. Ecoinvent v3 databases:
 - Evolution of the data format from ecospold1 to ecospold2
 - Markets modelling
 - System models: APOS, cut-off and consequential.
Differences and use recommendation
 - Modelling product systems using Ecoinvent v3 database in openLCA

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
- 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 v.3 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.

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

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 modelling								★				
E	Advanced modelling of product systems (Part 2)											★	
F	Ecoinvent v3 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 number¹.

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



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.

¹ 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

Your trainers



Salwa Burhan

**Sustainability Consultant
& Data Analyst**



Francesca Recanati

Sustainability Consultant



Andreas Ciroth

Founder & Manager

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 the ecoinvent 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!

GreenDelta GmbH

Müllerstrasse 135 D-13357

Berlin, Germany

www.greendelta.com

Tel. +49 30 48 496 – 030 Fax

+49 30 48 496 – 991

training@greendelta.com



GreenDELTA