GreenDELTa

Workshop on "Life Cycle Assessment and Water Footprint with openLCA"

October 19, 2016, FICCI, Federation House, New Delhi, India

Sustainability is one of the key concepts today. Sustainability Assessment is often debated and becomes more and more relevant for businesses and policy. Water Footprint (WF) is one important topic of sustainability and particularly interesting in water scarce regions. For assessing the WF in a LCA software (e.g. by calculating the "water depletion" along a products life cycle), *Geographic Information System (GIS) data* integration is needed to reflect the differences in location-specific conditions.

Building upon last year's workshop about water footprint, aim of this training is to

- provide the knowledge necessary for you to carry out LCA studies single-handedly
- using the latest version of openLCA software and its basic and advanced features (such as GIS modeling)
- by performing practical exercises next to receiving theoretical input

Training Agenda

Time	Theme
09:00 – 09:30	**Welcome & Introduction**
09:30 – 10:45	**Introduction to openLCA and Water Footprint** Introduction to GreenDelta Introduction to Water Footprint in LCA Introduction to openLCA: Functions and Features Tea Break (15 min)
11:00 – 12:00	**Working with openLCA I** Modeling the life cycle Impact assessment methods and regionalization (GIS modeling) *Practical Exercise* Lunch Break (60 min, 12:00-13:00)
13:00 – 15:00	**Working with openLCA II** Impact assessment calculation, results analysis and interpretation *Practical Exercise* Tea Break (15 min)
15:15 – 17:00	**Working with openLCA III** Sensitivity analysis/working with parameters and comparing systems (*+Practical Exercise*) Outlook I: Water footprint in openLCA Outlook II: Social LCA in openLCA

Trainer profile

The training will be held by Dr. Andreas Ciroth, founder of GreenDelta and Franziska Möller, environmental consultant at 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, social LCA or Life Cycle Costing. 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.

Dr. Andreas Ciroth is environmental engineer by education (PhD: error calculation in LCA, in 2001, at TU Berlin) and an international expert in LCA software and databases. He is co-chair of the working group on meta-data descriptors in the Global network of Interoperable databases and supported UNEP in projects related to LCA database creation in Malaysia and Brazil, including training and capacity building, in 2015.
He was the first subject editor of the International Journal of Life Cycle Assessment, for the field uncertainties, and is member of the Editorial Board of the Journal. Further, he holds a lecturer position at the Technical University Darmstadt in Germany, and is author and co-author of several publications/books.

About openLCA

openLCA is a free and open source, powerful Life Cycle Assessment and Sustainability Assessment software, with the largest variety of Life Cycle databases available, including ecoinvent and GaBi. openLCA is available on www.openlca.org. It is developed and maintained by GreenDelta in Berlin, since 10 years, and is used in industry, consultancies, academia and research institutes worldwide.

Material available for the training

For the training, a training database and training slides with practical exercises will be made available to the attendees. All training materials are included in the participation fee.

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ILCM

Workshop 'Life Cycle Assessment with openLCA' on 19 October 2016

Registration Form

Name of the Delegate	Designation	Email	Contact Number

Organization:	
Address:	
City:	**State:**	**Country:**
Company website:	
Telephone:	**Fax:**

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Registration Fees

☐ **Indian Industry:** ₹ 9,200/-

☐ **Government/NGOs/SMEs/Academics:** ₹ 5,750/-

☐ **Foreign Delegates: US$ 138**

☐ **Developing countries' delegates: US$ 115**

[1]Inclusive of 15% service tax

Payment Details

Mode: Cheque/DD/Net Banking/SWIFT/Cash

Cash received……………………………………………………………

Cheque/DD/NEFT Transaction
   No…………………………………………….

Date of transaction……………………………………………………

Total Amount[1]……………………………………………………

[1] Total amount indicates registration fees for multiple nominations

Terms and conditions:

- Registration fees include attendance at the training, program materials, coffee/tea and lunch
- The hotel accommodation is NOT included in the registration fee.
- If you do not cancel and you do not show up at the meeting, the outstanding amount will still be due. Upon request, paid no-shows will receive all materials covered by their registration fees.
- Cancellation terms: no refunds for cancellations that are received less than two weeks in advance. Cancellation must be received in writing by mail or fax.
- **Completed registration forms must be accompanied with full payment in order to be processed. Incorrect demand draft/cheque numbers and invalid transaction details will not be considered. Please ensure that a copy of registration form along with the payment details (copy of cheque/draft/wire transfer confirmation) is mailed at ilcm@ficci.com/sakshi.bhargava@ficci.com.**
- Payment should be made in **Indian rupees for Indian delegates** (by cash/cheque/wire transfer/demand draft) and in **US$ for foreign delegates** (by cash/SWIFT) in favor of **FICCI Quality Forum** payable at **New Delhi.**
- A consolidated payment in the modes stated above can be made for more than 1 nomination.
- Registration fee stated above is inclusive of service tax (14.0%) + Swachh Bharat Cess (0.5%) + Krishi Kalyan Cess (0.5%). The tax is currently charged at **15%** on the registration fee and shall be borne by delegates.

DOMESTIC/INTERNATIONAL WIRE TRANSFER DETAILS	
Vendor's Name	FICCI Quality Forum
Beneficiary Address	Federation House, Tansen Marg, New Delhi-110 001
Beneficiary Name	FICCI Quality Forum
Beneficiary Bank Name	United Bank of India
Beneficiary Bank Address	Tansen Marg Branch, New Delhi-110 001
Beneficiary Bank Account No.	0359050008321
Type of Bank Account	Current Account
SWIFT Code	BIC UTBIINBBTNM
Service Tax code	AAACF1282E-ST001
PAN No:	AAACF1282E
NEFT/RTGS/IFSC Code of the bank branch of the beneficiary	UTBI0TNM709 * as in UTBI(zero)TNM709
MICR Code of the Bank	110027020

Places are limited, please book early
Please complete and return this registration form to training@greendelta.com / ilcm@ficci.com
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