



62nd LCA Discussion Forum

LCA AND DECISION MAKING: WHEN AND HOW TO USE CONSEQUENTIAL LCA

Friday, 9 September 2016, ETH Zürich, Alumni Pavillon

We cordially invite you to the 62nd Discussion Forum on Life Cycle Assessment
The official language of this event is English

What are the environmental implications of the European Union policy to have 10 % of the transport fuel come from renewable sources by 2020? Is it sufficient to switch the energy supply of the existing building stock of cities to renewable energy to achieve carbon footprint targets? Would agricultural autarchy reduce pressure on the environment (locally and/or globally)?

Policies and decision situations like these call for advanced life cycle assessment models. Different concepts of **Consequential LCA** have been introduced for that purpose. This forum updates you on the latest developments in Consequential LCA methodology. It provides the opportunity to learn about the motivation and reasoning of public and private decision makers who commissioned consequential LCAs. Results from and experiences gained with consequential LCA case studies and the current state of implementation of consequential LCA approaches in large LCA databases as well as new IT solutions to support consequential LCAs are presented.

During a breakout session you have the opportunity to discuss issues of needs, contents and implementation of consequential LCA with the aim to draft a joint statement on areas of consensus and disagreement.

This forum is targeted to **LCA researchers, database developers** as well as **LCA commissioners** interested in learning more about the current state of the art, possibilities and limitations of consequential LCAs.

We look forward to meeting you in Zürich

Rolf Frischknecht, treeze Ltd.

Organizing Committee



Programme:

Time	Title	Speaker [Moderator]
8:45	Registration, coffee & croissants	
9:30	Welcome and introduction	Rolf Frischknecht, treeze Ltd.
	State of the Art of and tools for consequential LCA	[Rolf Frischknecht]
9:35	Consequential LCA and its consequences for LCA practice	Reinout Heijungs, Amsterdam University
9:55	Consequential system boundaries: Social responsibility, rebound effects and aggregation error	Bo Weidema, 2.-0 LCA Consultants
10:15	Consequential LCA system model: implementation in ecoinvent data v3 and illustration of consequences on selected supply chains	Gregor Wernet, ecoinvent
10:35	Customized versions of consequential system models to be applied to databases like ecoinvent	Gregor Wernet; Niko Heeren, ETHZ; Chris Mutel, PSI
10:55	Discussion	
11:05	Coffee break	
	Case studies: Lessons learned	[Laura Tschümperlin, treeze Ltd.]
11:35	Computationally based approaches to consequential LCA: agent based and economic modelling	Enrico Benetto, LIST
11:55	Application of consequential LCA to urban projects ecodesign	Charlotte Roux, Mines ParisTech
12:15	How to derive a consequential national electricity mix: the Swiss case	Rolf Frischknecht
12:35	Discussion	
12:45	Lunch	
	Case studies: Lessons learned, cont.	[Annika Messmer, treeze Ltd.]
13:45	Modelling the production and recycling of rare earth elements in consequential LCA	Dieuwertje Schrijvers, Philippe Loubet, Guido Sonnemann, Bordeaux University
14:05	European energy policy analysis with GTAP model in a consequential prospective LCA framework	Thomas Dandres, CIRAIG, École Polytechnique de Montréal *
14:25	Consequential LCA: a two steps approach	Yi Yang, CSRA, Inc. *
14:45	Discussion	
	Workshop: 3 breakout groups	
15:05	Introduction to the breakout groups	Annika Messmer, treeze Ltd.
15:15	Coffee break	
15:45	3 breakout groups, Tentative topics: 1 Needs: How consequential should daily LCAs be? Do enterprises and administrations ask for consequential LCA? 2 Contents: How to practically identify marginal technologies? Establishing consequential LCA models: Trade off between completeness and materiality? 3 Implementation: Do we need IT solutions to foster consequential LCAs? Are we able to delegate market and economic knowledge to software routines?	
16:30	Presentation of workshop results	Breakout group rapporteurs
16:50	Wrap up and announcements	Rolf Frischknecht
16:55	Farewell	

* on video



Practical information

Registration

To register for the 62nd DF, please use the following link:

<http://www.registration.ethz.ch/eventolight/>

At the first instance you visit this Website you will be asked to create an account. Afterwards, please login with the information that is sent to you by email. Please click on “published events”, then select “Discussion forum on life cycle assessment 2016” and then click “Anmelden”. Afterwards, please follow the instructions.

Programme updates will be available at: www.lcaforum.ch

Lunch

Vouchers for lunch at the ETH restaurant will be provided to all participants. A vegetarian meal option is always on offer.

Location

The DF will take place in the Alumni (GEP) Pavillon, Swiss Federal Institute of Technology Zurich, 8001 Zurich.

<https://maps.google.ch/maps/ms?msa=0&msid=205813047619347088253.0004e0af154b1fc2c1968&ie=UTF8&ll=47.376616,8.546441&spn=0.00287,0.006968&t=m&z=18&vpsrc=6&iwloc=0004e0af154df9d0190e4>



For further information, please contact Barbara Dold: lcaforum@ethz.ch