



71st LCA Discussion Forum

Environmental Benchmarks for buildings: Needs, challenges and solutions

Tuesday, 18 June 2019, ETH Zürich, Alumni (GEP) Pavillon

We cordially invite you to the **71st Discussion Forum on Life Cycle Assessment**
The official language of this event is English

The Paris agreement requires a significant reduction in greenhouse gas emissions. One of the priority sectors is the building stock, as it is an important source of greenhouse gas emissions. COP23, IEA and increasing number of countries are extending their consideration from aspects such as building energy demand and emissions from building operation to building construction and the manufacture of construction materials.

This DF will allow participants to inform themselves on the state of activities and regulations on the environmental LCA of buildings in Switzerland, European and other foreign countries. The day will focus on two aspects:

- environmental benchmarks: How are they derived? What is their level of ambition (checked against, e.g. the Paris Agreement and planetary boundaries)? How much differentiation is needed/offered (new/refurbished buildings, different types of buildings, different climate zones)?
- national assessment methods: The results and learnings of a round robin test are presented in which researchers from different countries assessed an identical building with their national assessment approaches.

This DF profits from the research activities of the IEA EBC Annex 72 “Assessing Life-Cycle Related Environmental Impacts Caused by Buildings”.

This forum is targeted to LCA practitioners and researchers as well as policy makers in the construction sector.

We look forward to meeting you in Zürich

Rolf Frischknecht, treeze Ltd.

Programme:

Time	Title	Speaker [Chair]
8:45	Registration, coffee & croissants	
9:10	Welcome and introduction to the topic	Rolf Frischknecht, treeze
9:25	The Paris Agreement: The phase-out of greenhouse gas emissions to reach the 1.5°C target and the role of the construction sector	Elmar Grosse Ruse, WWF Schweiz
	Comparing national building assessment methods	[Harpa Birgisdottir, SBI]
09:45	The be2226 office building in Lustenau: Architectural characteristics and BIM model	Martin Röck, TU Graz
10:05	Learnings from a round robin test of assessing the environmental impacts of the be2226 office building	Livia Ramseier, treeze
10:25	Discussion	
10:35	Coffee break	
	Existing benchmark systems regarding environmental impacts of buildings	[Thomas Lützkendorf, KIT]
11:05	The French benchmark system for buildings: its goals and its effects *	Bruno Peuportier, MinesParisTech *
11:25	The Swiss benchmarking system according to the 2000-Watt-society: its goals and its effects	Annette Aumann, City of Zürich
11:45	The Belgian benchmark system for buildings: its goals and its effects	Damien Trigaux, KU Leuven *
12:05	The Danish benchmark system for buildings: its goals and its effects	Harpa Birgisdottir, SBI
12:25	Lunch	
	Existing benchmark systems regarding environmental impacts of buildings	[Alexander Passer, TU Graz]
13:25	The Czech benchmark system for buildings: its goals and its effects	Antonin Lupisek, CTU
13:45	GHG budget for buildings & performance levels for sustainability assessment – the situation in Germany	Thomas Lützkendorf, KIT
14:05	The Dutch benchmark system for buildings: its goals and its effects	Dora Vancso, W/E *
14:25	The Finnish benchmark system for buildings: its goals and its effects	Matti Kuittinen, Ministry of Environment YM
14:45	Panel discussion with presenters of the national benchmark systems	Moderator: Alexander Passer
15:30	Coffee break	
	Further building related environmental benchmark systems	[Rolf Frischknecht, treeze]
16:00	Dual environmental benchmarks for buildings	Alexander Hollberg, ETH Zürich
16:20	Benchmarks for environmental impact of housing in Europe: definition of archetypes and LCA of the residential building stock	Monica Lavagno, Politecnico di Milano *
16:30	Discussion	
	Wrap up, announcements and farewell	
16:40	Wrap up and announcements	Rolf Frischknecht, treeze
16:45	Farewell	

* on video



Practical information

Registration

To register for the whole year or a single LCA Discussion Forum, please use the following link:

<https://www.converia.ethz.ch/frontend/index.php?sub=90>

To register you need to create a profile, which is done in very few steps and is self-explanatory. In case you are not able to pay by credit card, please send an e-mail to:

lcaforum@ethz.ch with a short notice that you want to receive an invoice instead. Please provide the full invoice address as well as the chosen fee type.

For all questions regarding the registration process, please do not hesitate to contact:

lcaforum@ethz.ch

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

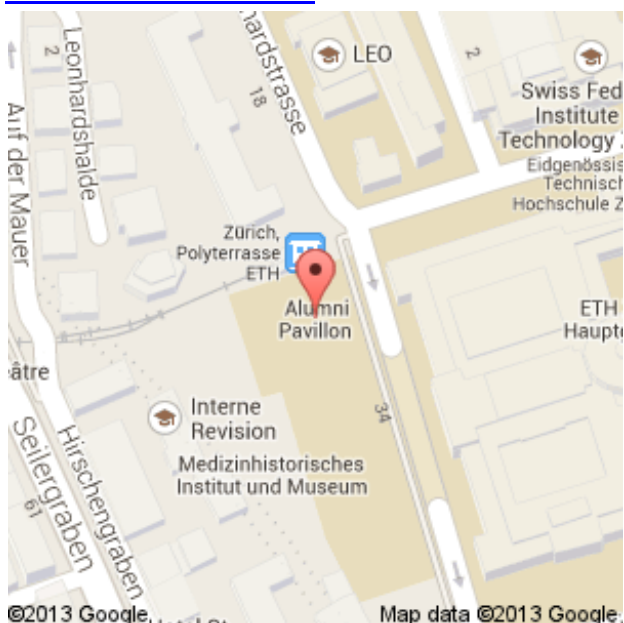
Lunch

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=004e0af154df9d0190e4>



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