

## **51<sup>st</sup> LCA Discussion Forum**

# **THE ROLE OF ENVIRONMENTAL LIFE CYCLE THINKING IN LONG-TERM (ENERGY) STRATEGIES**

**Thursday, April 25, 2013, 9h15, UVEK Aula, Ittigen-Berne**

We kindly invite you to the **51<sup>st</sup> discussion forum on Life Cycle Assessment**  
The official language during this event is English

More and more national and regional resource and energy strategies are being developed. After the Fukushima accidents several European countries like Germany and Switzerland decided a phase out of nuclear power. They are adjusting or rewriting their long-term national energy strategies. Environmental impacts are usually one element of these strategies. Life cycle assessment (LCA) is one approach that may help to identify environmentally optimal energy strategies.

The discussion forum will give the floor to present the Swiss and the German energy strategies. The role of LCA within these strategies is discussed and highlights of the most recent updates of electricity supply life cycle inventories are presented. Furthermore, sophisticated LCA approaches to deal with long-term future scenarios in a European and German context are explained and the application of LCA on future technologies such as carbon capture and storage and hydrogen is presented.

Workshops will allow for discussing the expectations and requirements on LCA used in long-term assessments from a policy makers, scientists and industry and consultants point of view.

This discussion forum will address the following questions:

- What are the key elements of the Swiss Energy Strategy 2050 and what is the role of LCA in this strategy?
- What are the main results of the updates of selected electricity supply chains (nuclear, natural gas, photovoltaics)?
- What is the role of environmental life cycle thinking in the development of national long-term strategies in Germany?
- How is or should life cycle assessment methodology being adjusted to account for future scenarios in a European context?
- How to assess energy technologies, which will only be installed in the future?

DF 51 will be available online through our live streaming solution.

The link will be available here : <http://www.lcaforum.ch/Forum/tabid/57/Default.aspx>

We look forward to meeting you in Ittigen-Berne!

Rolf Frischknecht

## Programme

Time	Title	Speaker
8.30 h	Registration, Coffee and Croissants	
9.15 h	Welcome and introduction	Rolf Frischknecht, treeze Ltd.
	The Energy Strategy 2050 and its environmental dimension	Chair: Rolf Frischknecht
9.20 h	The Swiss Energy Strategy 2050 and the Role of LCA in the Electricity Sector	Beat Goldstein, BFE
9.45 h	The Swiss Energy Strategy 2050 and the Role of LCA in the Building and Transportation Sectors	Lukas Gutzwiller, BFE
10.10 h	Discussion	
10.25 h	Environmental performance of electricity supply in Switzerland, an input to the Swiss Energy Strategy 2050	Christian Bauer, PSI
10.50 h	Discussion	
11.00 h	<i>Coffee break</i>	
	European Energy strategies and the role of LCA	Chair: Rolf Frischknecht
11.30 h	The German Energy Transformation: Long-term policy making and the role of LCA	Martin Pehnt, ifeu Heidelberg
12.00 h	Policy dependent LCA outcomes, with examples on climate policy instruments	Gjalt Huppes, CML Leiden
12.30 h	Modeling the Impacts of Climate Protection Strategies on Resource Consumption and Emissions - a Dynamic LCA for the Heat Sector in Germany	Peter Viebahn, Wuppertal Institute
13.00 h	<i>Lunch break</i>	
	LCA and Technology Assessment	Chair: Martin Pehnt
14.00 h	Technology-specific life cycle assessment contributing to an energy strategy	Axel Kölling, ERK Eckrohrkessel GmbH
14.20 h	Environmental evaluation of the hydrogen vector applied to future mobility	Benoît Verzat, Quantis International
14.40 h	Carbon Capture and Storage: a future option for Switzerland?	Kathrin Volkart, PSI
15.00 h	Meeting the NEEDS of European environmental sustainability assessment of future electricity supply	Rolf Frischknecht, treeze Ltd.
15.20 h	Basic life cycle inventory data for life cycle thinking in energy strategies: Electricity datasets in ecoinvent version 3	Karin Treyer, PSI
15.30 h	LCA of the Swiss electricity mixes according to the energy strategy 2050	Franziska Wyss, treeze Ltd.
15.40 h	<i>Coffee break</i>	
16.10 h	Plenary discussion: Expectations and requirements on LCA used to support long term policies from - policy makers (governments) - scientists (academia) - industry and consultants	Moderation: Lukas Gutzwiller
17.00 h	Wrap-up and farewell	Rolf Frischknecht

## Practical information

### *Accommodation*

For the people spending the night in Berne, there are different accommodation facilities. Please refer to [www.berninfo.com](http://www.berninfo.com) or [www.booking.com](http://www.booking.com).

### *Application form*

To register to the 51<sup>st</sup> DF, please fill in the application form (word .doc) attached and send it back to the LCA Discussion Forum secretariat ([lcaforum@quantis-intl.com](mailto:lcaforum@quantis-intl.com)). Please do not forget to indicate your affiliation and if you are a student or a PhD student (special fees, see application form). Program updates will be available on the website [www.lcaforum.ch](http://www.lcaforum.ch).

### *Invoice*

Once the application form was sent to the LCA Discussion Forum secretariat ([lcaforum@quantis-intl.com](mailto:lcaforum@quantis-intl.com)) and the registration was confirmed, an invoice will be sent by email to all the participants. It is possible to pay by transfer payment or in cash in the morning of the forum at the reception desk, between 8:00 to 9:00 am.

### *Lunch*

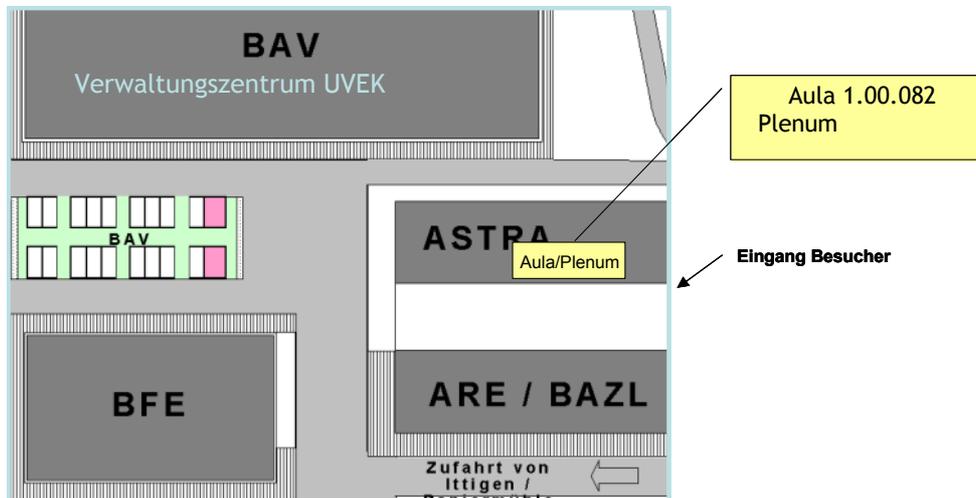
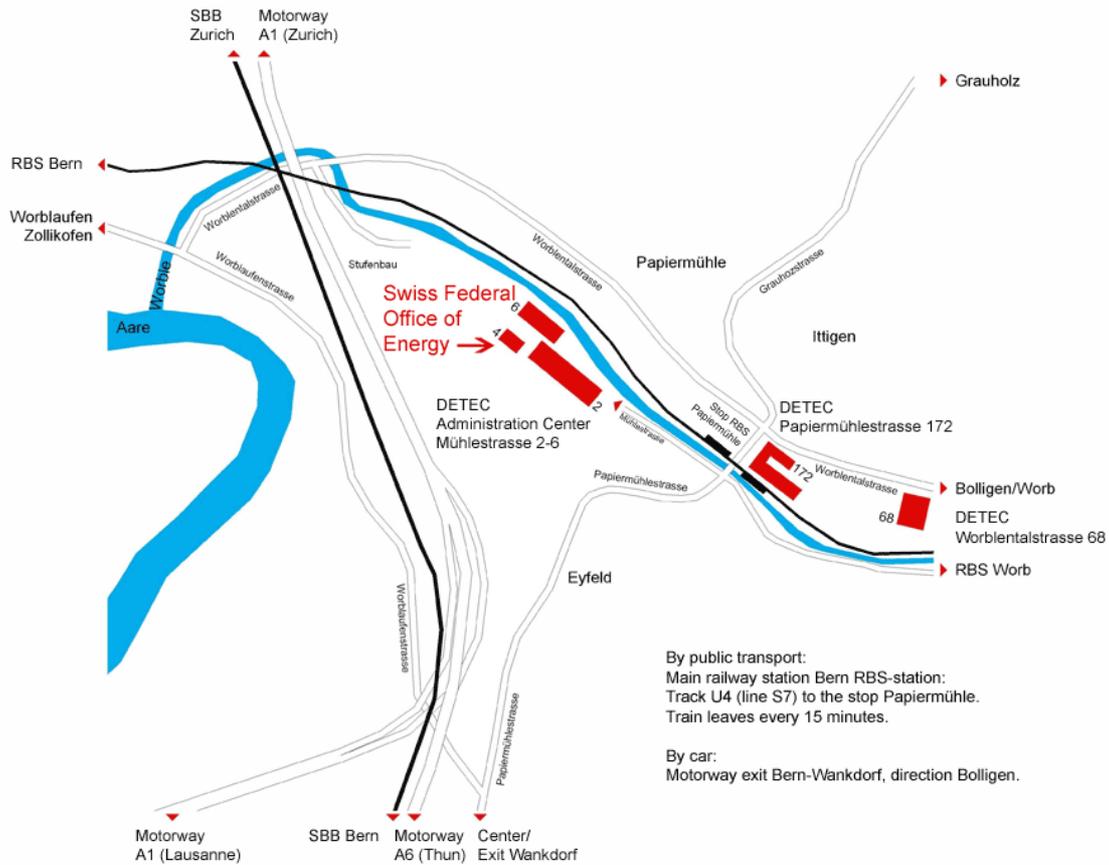
An organized lunch will be available at the UVEK. Please inform the conference organizers ([lcaforum@quantis-intl.com](mailto:lcaforum@quantis-intl.com)) in advance if you prefer a vegetarian dish.

### *Location*

The forum will take place in Ittigen at the DETEC Administration Centre (Mühlestrasse 2-6), which is located five minutes away (by foot) from the RBS railway station "Papiermühle".

The best way to reach the venue place is to come by train. A train timetable is available at [www.sbb.ch](http://www.sbb.ch). Take the RBS train (Line S7) direction "Worb Dorf" at the station, Berne Central Station. Trains leave every 15 minutes (.00, .15, .30, .45) from platform 23 or 24. Get off at "Papiermühle" (2<sup>nd</sup> stop).

Cross the rails and follow the street "Mühlestrasse until the end of the street and walk straight on to the main entrance.



For further information, please contact either the LCA Discussion Forum secretariat ([lcaforum@quantis-intl.com](mailto:lcaforum@quantis-intl.com), [www.lcaforum.ch](http://www.lcaforum.ch), Denis Bochatay 0041 21 693 91 92) or Rolf Frischknecht ([frischknecht@treeze.ch](mailto:frischknecht@treeze.ch), 0041 44 940 61 91).